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MARCH 2011 SEMIANNUAL MONITORING REPORT FOR OPERABLE UNIT 2 (OU 2)
MCCOY ANNEX NTC ORLANDO FL
5/1/2011
BFA ENVIRONMENTAL CONSULTANTS

March 2011 Semiannual Monitoring Report
Operable Unit 2 - McCoy Annex
Former Naval Training Center
Orlando, Florida

Prepared for:

Department of the Navy
Naval Facilities Engineering Command Southeast
BRAC Program Management Office Southeast
Contract No. N62467-03-G-0297-0002

Prepared by:

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May 2011

March 2011 Semiannual Monitoring Report
Operable Unit 2 - McCoy Annex
Former Naval Training Center
Orlando, Florida

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Prepared under:

Long Term Monitoring and O & M at Former NTC Orlando, Florida

Contract No. N62467-03-G-0297

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May, 2011

BFA certifies that the fieldwork and the preparation of this report were done in accordance with Florida Rules Regulations and Industry guidance. As a registered Engineering and Geological services firm our senior professionals are authorized by the rules that govern this work including Chapters 492 or 471, Florida Statutes. We certify that the work was performed under the guidance of appropriately credentialed and licensed professionals.

To the best of our knowledge, the information and laboratory data included herein are true, accurate, complete, and in accordance with applicable Florida state and federal rules and regulations.

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Certification Page

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Acronyms

AMSL	Above Mean Sea Level
BFA	Barnes, Ferland and Associates, Inc.
BGS	Below Ground Surface
°C	Degrees Celsius
Cis-1, 2-DCE	Cis-1, 2-dichloroethene
CTO	Contract Task Order
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
ft.	Feet
FDEP	Florida Department of Environmental Protection
FL-PRO	Florida Petroleum Residual Organic
gal	gallons
GCTL	Groundwater Cleanup Target Levels
in	Inches
µg/L	Micrograms per liter
µS/cm	Micro Siemens per centimeter
mg/L	Milligrams per liter
MEE	Methane, Ethane, and Ethene
mL/min	Milliliters per minute
mV	Millivolts
NA	Not Available
NADC	Natural Attenuation Default Concentration
NM	Not Measured
NTC	Naval Training Center
NTU	Nephelometric Turbidity Units
OPT	Orlando Partnering Team
ORP	Oxidation-Reduction Potential
PAH	Polynuclear Aromatic Hydrocarbons
PCE	Tetrachloroethene
SA	Study Area
SI	Site Investigation
SU	Standard Unit
TCE	Trichloroethene
TOC	Top of Casing
TPH	Total Petroleum Hydrocarbon
VOC	Volatile Organic Compound

Section 1 - Background

The following report presents results of the March, 2011 groundwater sampling round at the Operable Unit 2 (OU2) site - formerly McCoy Annex Landfill in Orlando, Florida. Section 1 is intended to provide background information for understanding the site conditions at OU2.

1.1 NTC Orlando's Environmental Program

Environmental studies and cleanup actions are currently underway at the former NTC, Orlando as part of the Department of Defense's Installation Restoration (IR) Program. Through this program, areas of known or suspected contamination from past practices and operations are being monitored, evaluated, and, if necessary, cleaned up.

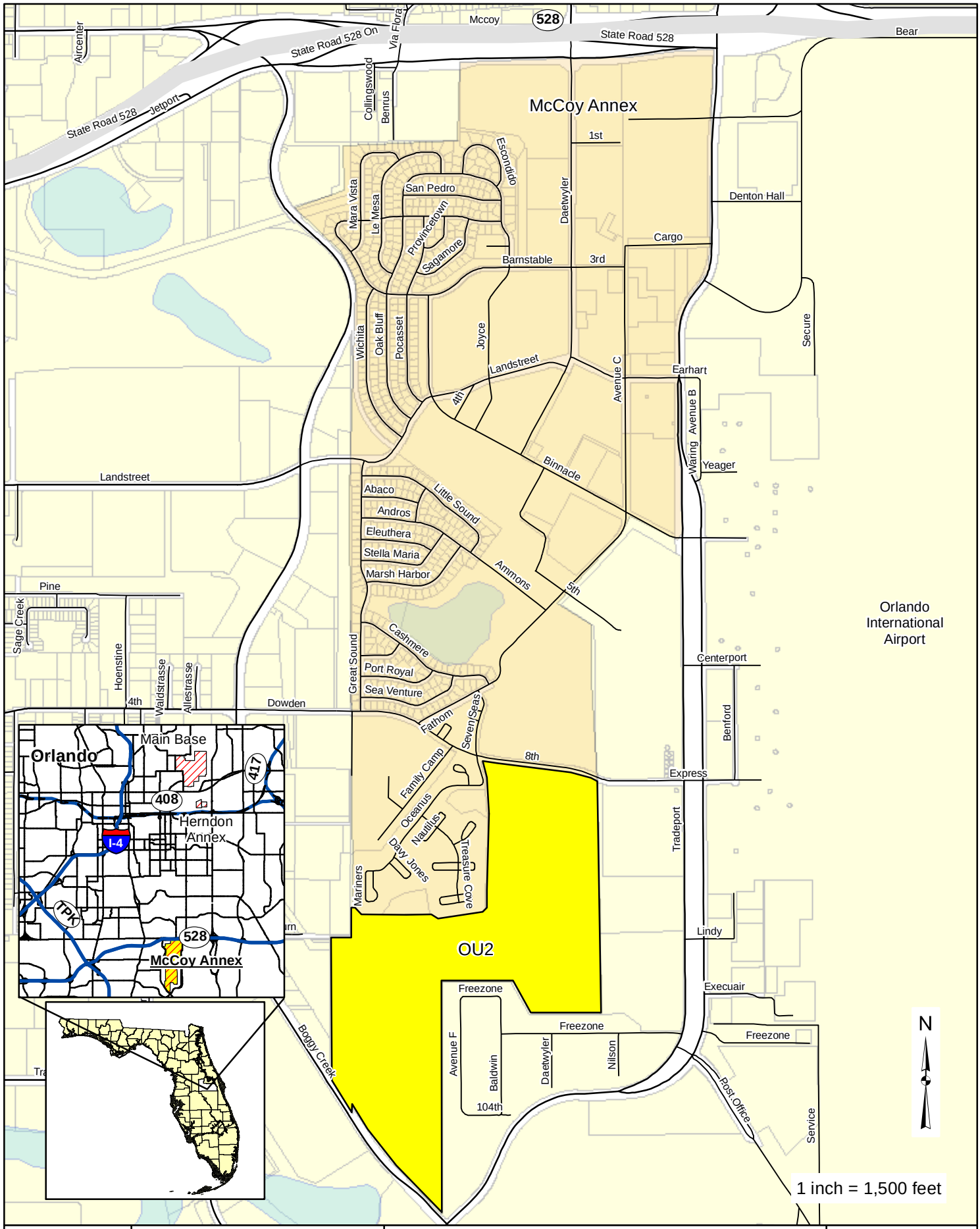
1.2 Description and History of Operable Unit 2

McCoy Annex (1940–1947, 1951–1975) is a former US Army Airfield (Pinecastle Army Airfield) and United States Air Force base(McCoy Air Force BASE) located 10 miles (16 km) south of Orlando, Florida. It was a training base during World War II. After the war it became a Front-Line Strategic Air Command (SAC) base during the Vietnam War and the Cold War. With McCoy's closure as an active Air Force installation in 1975, the site was redeveloped with the military retaining most of the land, with the exception of the airfield (which became Orlando International Airport).

Operable Unit 2 is located immediately west of the Orlando International Airport and Greater Orlando Airport Authority (GOAA) property as shown on Figure 1. OU2 is an inactive landfill located in the southern part of McCoy Annex. The landfill occupies approximately 114 acres, and its relatively flat topography slopes from north to south. A nine hole golf course now occupies the northern half of the site. The southern half of the site was wooded, but the trees have been removed and the area was covered with clean soil as part of an Interim Remedial Action (IRA).

The western portion of the site was used as a landfill by the Air Force from about 1960 to 1972, while the eastern portion was used as a landfill by the Air Force and the Navy from 1972 until about 1978. Landfill operations consisted of excavating ditches (100 to 200 feet long by 20 to 25 feet wide by 10 to 15 feet deep) into which trucks disposed wastes. Occasional burning of the wastes took place in the ditches. Trenches were filled with waste to within 3 or 4 feet of the ground surface and then backfilled with soil and seeded.

The estimated volume of waste is more than 1,000,000 cubic yards (yd^3). Landfill wastes reportedly included hospital wastes, paint and paint thinner, automobile batteries, airplane parts, and asbestos.



Location Map of Operable Unit 2
McCoy Annex

Figure 1

A Remedial Investigation (RI) was conducted at the site from May 1997 to March 2001. The RI indicated that: the landfill covers approximately 114 acres; the surface soil was contaminated with landfill material in the southern portion of the golf course and in the wooded area in the south portion of OU2; surface water and sediment were not contaminated, but groundwater could cross contaminant these media in the future; and two contaminant plume areas (north and south) exist at the site. *The principal contaminants of concern were benzene, iron, and manganese in the northern plume area, and benzene and chlorinated solvents (such as vinyl chloride, PCE and TCE) in the southern plume area.*

Two IRAs were conducted at OU2. One of these actions included the removal of 2,000 yd^3 of contaminated surface soil in the northern portion of OU2 and the other involved placement of additional soil cover in the southern portion of OU2.

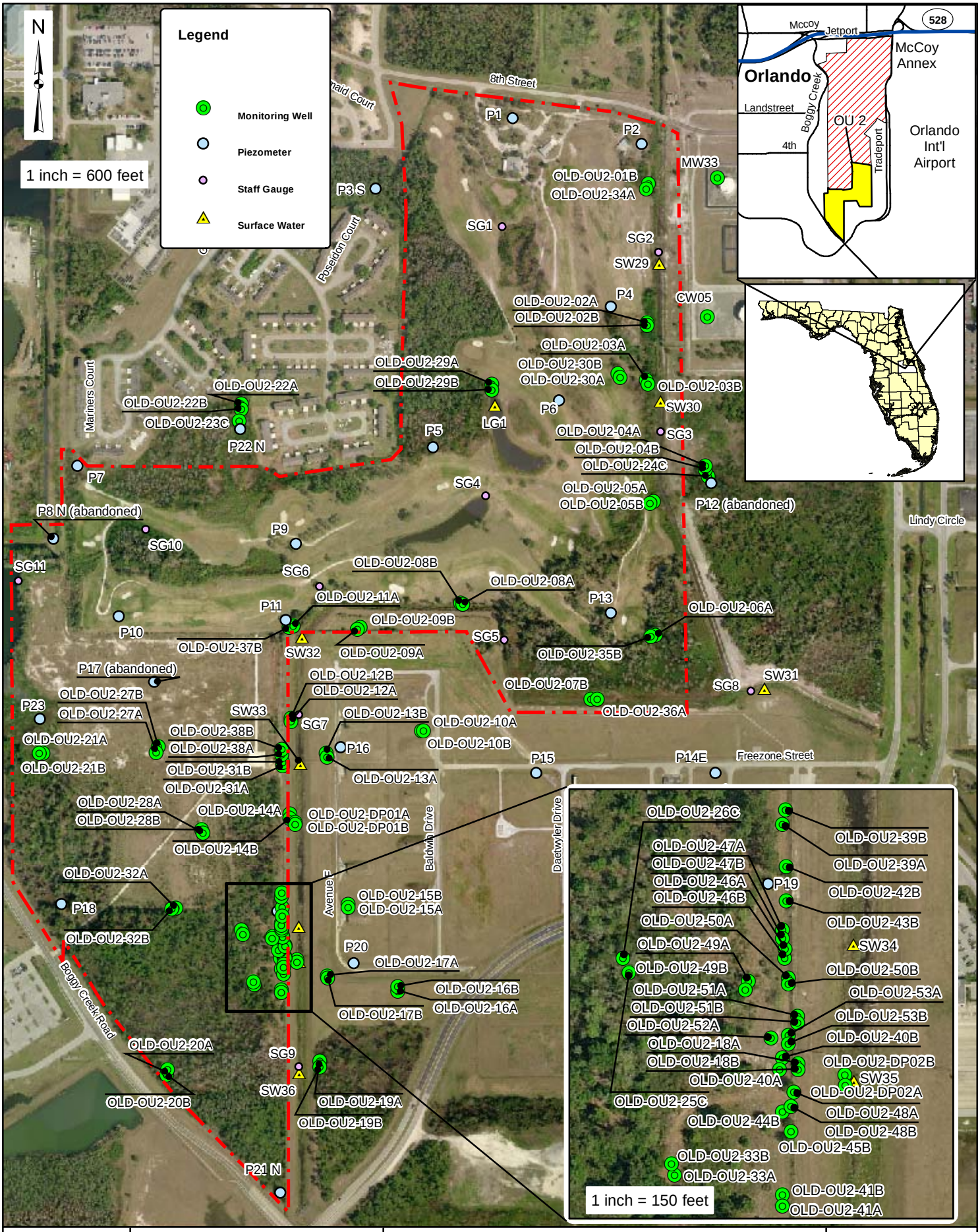
1.3 Nature and Extent of Contamination

The Orlando Partnering Team proposed the following plan to address the potential risk from landfill material and groundwater contamination. For the *northern groundwater plume*, additional cover was placed over the landfill where needed to prevent direct human contact with landfill materials. Land use controls are implemented to control exposure to contaminants of concern. Land use controls include site restrictions to prohibit unauthorized intrusive activity within the landfill boundary and to prohibit the use of groundwater for any purpose other than for groundwater investigation without written authorization from the Navy and Florida Department of Environmental Protection. Signs are posted to alert users of the property about the presence of a landfill and monitoring of groundwater and surface water were implemented to assess the progress of natural attenuation.

For the *southern groundwater plume*, enhanced biodegradation, land use controls, and monitoring have been implemented to address the contamination. Enhanced biodegradation involves injecting a bio-stimulant within the plume to enhance ongoing natural biodegradation of chlorinated compounds. Site conditions, as demonstrated by the ongoing groundwater monitoring program, indicate that natural attenuation has successfully reduced the extent of the contaminated groundwater plume. Land use controls are implemented to control exposure to contaminants of concern. Land use controls include site restrictions to prohibit residential use, to prohibit unauthorized intrusive activity within the landfill boundary, and to prohibit using groundwater as a drinking water supply. Signs are posted to alert users of the property about the presence of the landfill. Monitoring involves both groundwater and surface water to assess the progress of natural attenuation.

1.4 Continued Groundwater Network Monitoring

Numerous groundwater monitoring wells currently exist at OU2, which are used for monitoring of groundwater conditions (Figure 2). Barnes, Ferland and Associates, Inc. (BFA) began sampling the OU2 monitor wells semiannually in October, 2008. Since this time, BFA has performed five sampling



BFA

OU 2 Monitor Well and Surface Water Sampling Location Map

Figure 2

events. All sampling and testing procedures are performed in accordance with the Work Plan titled, *Long Term Monitoring Services Work Plan, Former Naval Training Center, Orlando, Florida (BFA, June 2008).*

1.5 Regulatory Framework

This project is being conducted as part of the US Navy Base Realignment and Closure Act (US Navy BRAC). The US Environmental Protection Agency (USEPA) works closely with other federal agencies, state and local governments to develop and enforce regulations under existing environmental laws. A number of Federal statutes provide USEPA with the authority to prevent and control sources of groundwater contamination, as well as cleanup of existing contaminated sites. The Comprehensive Environmental Response Compensation Liability Act (CERCLA) regulations, governing the treatment and handling of wastes, are applied at OU2. USEPA is responsible for researching and setting national standards for a variety of environmental programs and delegates to states the responsibility for issuing permits, and monitoring and enforcing compliance. Chapter 403, *FS* establishes the Florida Department of Environmental Protection (FDEP) as the primary agency responsible for the protection of the groundwater supply. The FDEP has promulgated a number of different regulations under title 62 of the Florida Administative Code (*F.A.C.),* which function to regulate several types of activities with potential impacts on groundwater. Applicable *F.A.C.* Chapter 62 regulations are also followed in the performance of the scope of work, as detailed in the site Work Plan (BFA, June 2008). Key project decisions are made by the Orlando Partnering Team (OPT) including members of USEPA, FDEP, US Navy BRAC and Tetra Tech, Inc.

Section 2 - Field Sampling Activities and Results

The sampling schedule for Operable Unit 2 (OU2) is semi-annual during March and September. For the March 2011 sampling round, monitor wells and surface water sites were sampled as shown in Table 1, and provided by the Orlando Partnering Team (OPT). All field sampling and laboratory testing activities were performed in accordance with the Work Plan titled: *Long Term Monitoring Services Former Naval Training Center, Orlando, Florida (BFA June, 2008)* and the OU2 specific sampling plan for March, 2011. Groundwater samples were collected by Barnes, Ferland and Associate, Inc. (BFA) and laboratory analysis was performed by Accutest Laboratories, Southeast. The following section provides a summary of BFA field activities and laboratory results.

2.1 Water Level Measurements

Prior to groundwater sample collection, water levels were measured in OU2 monitor wells, as described in the facility Work Plan and in compliance with FDEP SOP 01-01 (Version March 31, 2008). Groundwater level measurements were collected from 36 monitoring wells on March 29, 2011. At the OU2 site, monitor wells are screened in two surficial aquifer zones below land surface (bls) as follows: shallow Zone A (3.4-17.4 ft bls) and intermediate Zone B (23-39 ft bls). Table 2 identifies the approximate depths for these well screened zones and the calculated groundwater elevations. Groundwater elevations are captured by the electronic program/database ADESSO. Potentiometric surface maps and contaminant concentration maps are produced by aid of Golden Software's Surfer program. At the southern plume area, the groundwater flow patterns in both Zones A and B appear to be from the northwest toward the southeast (Figures 3 and 4). At the northern plume area, the flow patterns in both Zones A and B appear to be from the west toward the east (Figures 3 and 4). There was insufficient data to provide a potentiometric surface map for the deeper zone.

2.2 Groundwater Sampling

Groundwater sampling of 36 monitor wells and 8 surface water sites was conducted at the OU2 site during the period March 30 to April 8, 2011. Groundwater sampling consists of purging and sampling the monitor wells using the low-flow methods (peristaltic pump) as described in the Work Plan. In accordance with the Work Plan, purge waters are collected in a 125-gallon tank mounted on one of the BFA sampling trucks. The purge water is containerized in drums until analyses results are received. The purge water is then disposed of appropriately by a hazardous waste handler. The purging of wells consists of removing groundwater at a flow rate less than or equal to the groundwater recharge rate until field parameters (temperature, pH, conductivity, turbidity, Dissolved Oxygen [DO], and Oxidation-Reduction Potential [ORP]) have stabilized (Appendix B). Water levels in the wells are continuously monitored to maintain drawdown at less than 0.3 feet. The default pumping rate used is 0.1 GPM for 2-inch diameter wells. This rate is varied as necessary for individual well characteristics.

Table 1 - Operable Unit 2 March 2011 Sampling Plan

OPERABLE UNIT 2 WELL IDS	Water Levels	pH	ORP	Temperature	Conductivity	Dissolved Oxygen	Turbidity	*VOCs	Iron	Manganese	Alkalinity	nitrate	nitrite	ammonium	chloride	Ortho-phosphate	Sulfate	Diss. Organic Carbon	**biogenic gases	CO_2	DO	Ferrous Iron	Total Sulfide	Hydrogen Sulfide
OLD-OU2-02A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-02B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-03A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-03B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-12B	x																							
OLD-OU2-18B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-21A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-21B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-27A	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-27B	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-28B	x																							
OLD-OU2-29A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-29B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-30A	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-30B	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-31A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
***OLD-OU2-31B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-32A	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-32B	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-33A	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-33B	x	x	x	x	x	x	x	x	x		x													
OLD-OU2-37B	x																							
OLD-OU2-41B	x																x	x	x	x	x	x		
OLD-OU2-42B	x																x	x	x	x	x	x		
OLD-OU2-43B	x																x	x	x	x	x	x		
OLD-OU2-44B	x																x	x	x	x	x	x		
OLD-OU2-45B	x																x	x	x	x	x	x		
OLD-OU2-46B	x																x	x	x	x	x	x		
OLD-OU2-47B	x																x	x	x	x	x	x		
OLD-OU2-48B	x																x	x	x	x	x	x		
OLD-OU2-49B	x																x	x	x	x	x	x		
OLD-OU2-50B	x																x	x	x	x	x	x		
OLD-OU2-51B	x																x	x	x	x	x	x		
OLD-OU2-53B	x																x	x	x	x	x	x		
OLD-OU2-DP01A	x																							
***OLD-OU2-DP02A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OLD-OU2-LG1	x																							
OLD-OU2-SW29	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW30	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW31	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW32	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW33	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW34	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW35	x	x	x	x	x	x	x	x			x													
OLD-OU2-SW36	x	x	x	x	x	x	x	x			x													

*** VOCs** - Laboratory ran 8260 but only the following analytes are reported: benzene, Cis-1,2 DCE, isopropyl benzene, methylene chloride, Tetrachloroethene, Trichloroethene, Vinyl Chloride

****biogenic gases** DO, CO2, N2, ethene, ethane, methane

******* duplicates for VOCs, Fe and Mn only

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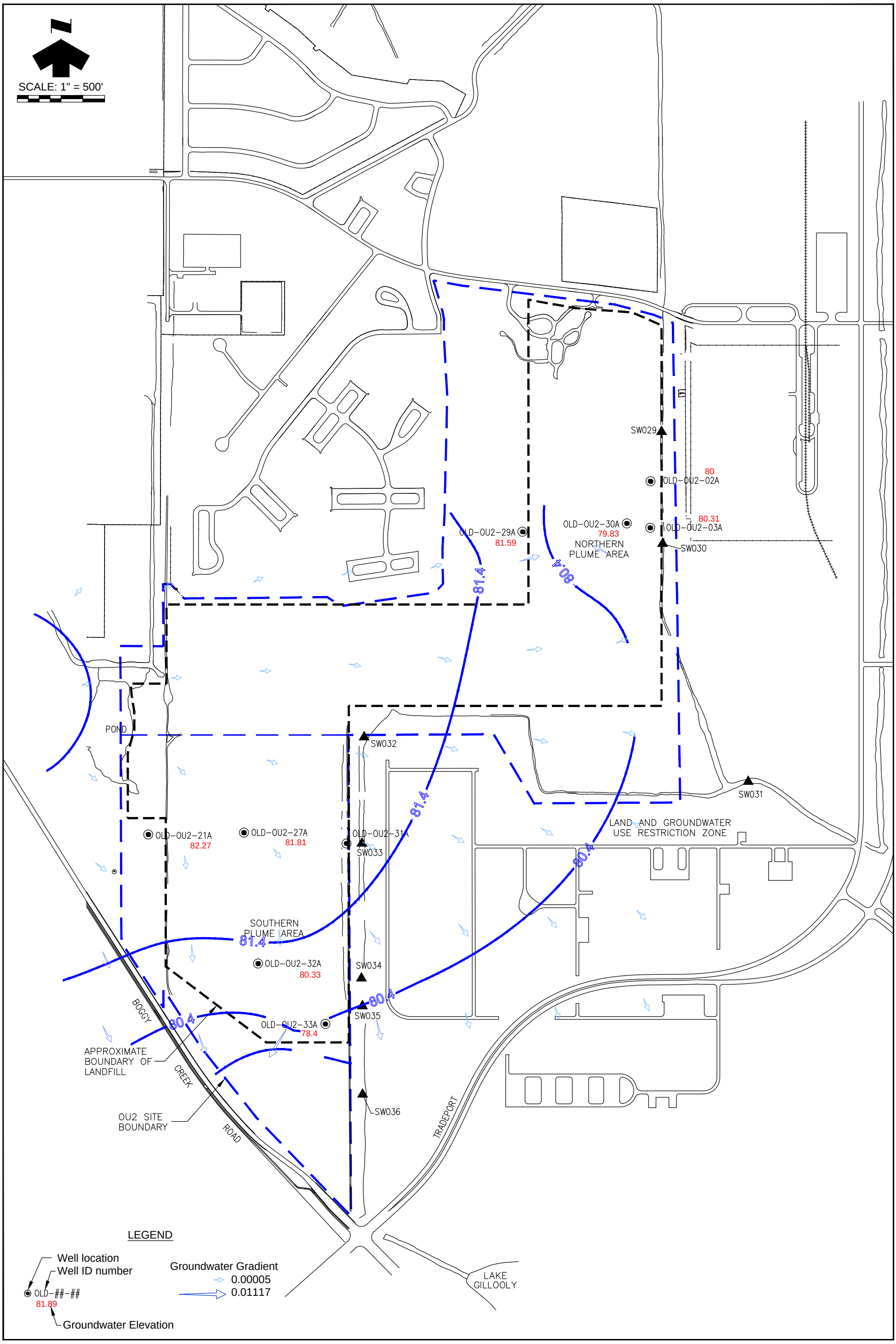

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Potentiometric Surface Map - Zone A

FIGURE
3

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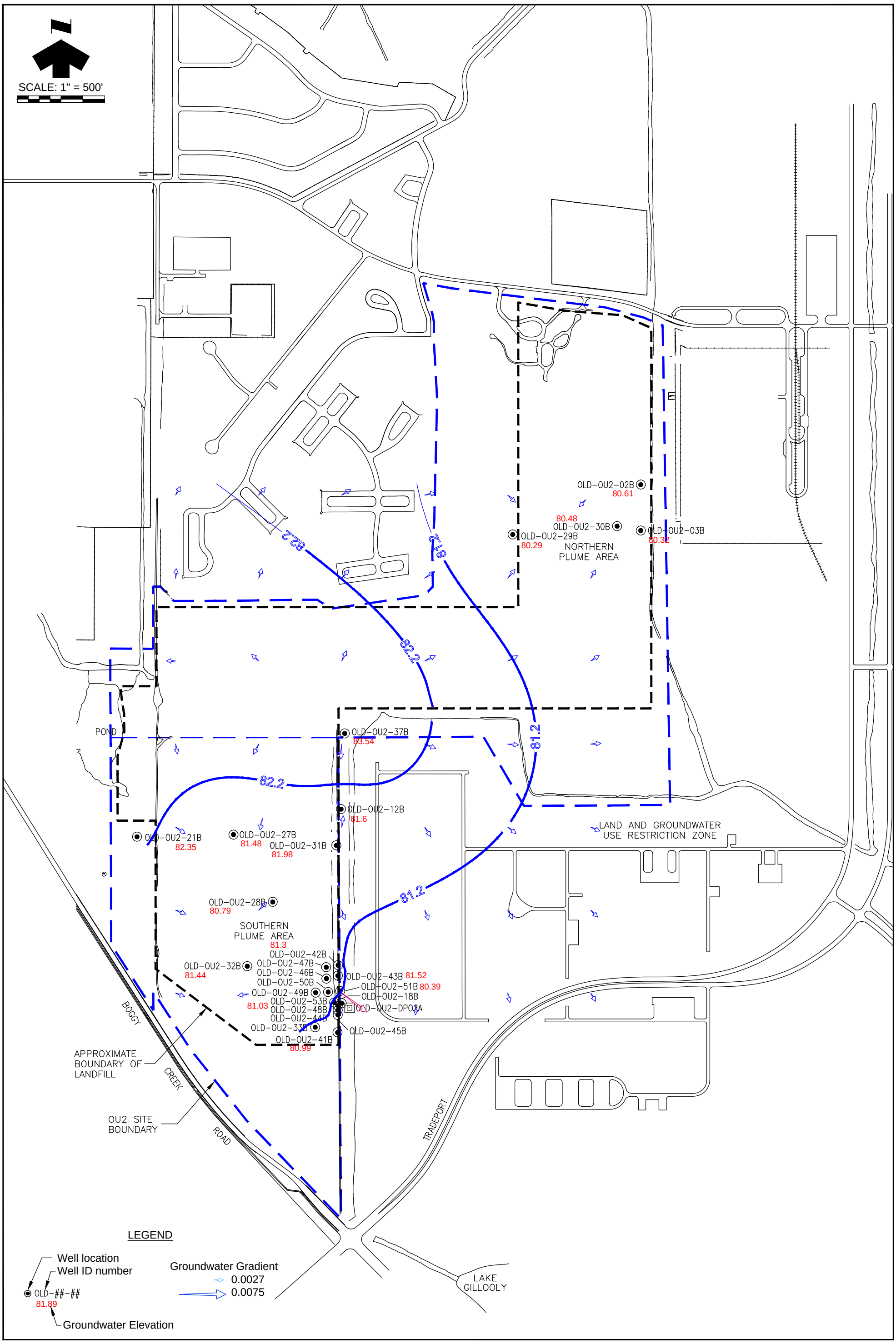

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Potentiometric Surface Map - Zone B

FIGURE
4

Table 2 - OU2 Monitor well information and March 29, 2011 groundwater elevations

Well ID	Well Diameter (inches)	Screened Interval (ft. BLS)	TOC Elevation (ft. NGVD)	Depth to Water Level (ft. BTOC)	Groundwater Elevation (ft. NGVD)
OLD-OU2-02A	2”	7.4-17.4	91.55	11.25	80.30
OLD-OU2-02B	2”	27 - 32	91.76	10.99	80.77
OLD-OU2-03A	2”	7.5 - 17.5	89.21	8.80	80.41
OLD-OU2-03B	2”	27.5 - 32.5	89.17	8.65	80.52
OLD-OU2-12B	2”	29 - 35	90.40	7.90	82.50
OLD-OU2-18B	2”	28.5 - 33.5	89.89	7.90	81.99
OLD-OU2-21A	2”	7 - 17	93.79	11.47	82.32
OLD-OU2-21B	2”	27.5 - 32.5	93.93	11.56	82.37
OLD-OU2-27A	2”	6 - 16	95.31	13.41	81.90
OLD-OU2-27B	2”	27 - 32	95.31	13.60	81.71
OLD-OU2-28B	2”	27 - 32	94.49	13.52	80.97
OLD-OU2-29A	1”	5 - 15	86.99	5.07	81.92
OLD-OU2-29B	1”	25 - 30	86.79	4.79	82.00
OLD-OU2-30A	1”	5 - 15	88.68	7.09	81.59
OLD-OU2-30B	1”	25 - 30	88.31	7.48	80.83
OLD-OU2-31A	1”	5 - 15	93.81	11.72	82.09
OLD-OU2-31B	1”	25 - 30	93.53	11.42	82.11
OLD-OU2-32A	1”	5 - 15	93.94	12.42	81.52
OLD-OU2-32B	1”	25 - 30	94.06	12.54	81.52
OLD-OU2-33A	1”	5 - 15	93.70	12.85	80.85
OLD-OU2-33B	1”	25 - 30	93.42	12.32	81.10
OLD-OU2-37B	1”	25 - 30	92.67	9.90	82.77
OLD-OU2-41B	2”	30 - 35	89.49	8.34	81.15
OLD-OU2-42B	2”	34 – 39	89.60	7.80	81.80
OLD-OU2-43B	2”	29.5 - 34.5	89.37	7.73	81.64
OLD-OU2-44B	2”	28.5 - 33.5	89.39	8.08	81.31
OLD-OU2-45B	2”	29.8 - 34.5	89.38	8.10	81.28
OLD-OU2-46B	2”	30 - 35	89.23	7.64	81.59
OLD-OU2-47B	2”	30 - 35	89.58	7.95	81.63
OLD-OU2-48B	2”	23-28	89.64	8.29	81.35
OLD-OU2-49B	2”	25 - 35	89.62	6.34	83.28
OLD-OU2-50B	2”	23 - 33	87.57	5.53	82.04
OLD-OU2-51B	2”	24 - 34	90.72	8.65	82.07
OLD-OU2-53B	2”	25 - 35	88.31	6.86	81.45
OLD-OU2-DP01A	1.25”	3.5 - 7.5	82.68	1.70	80.98
OLD-OU2-DP02A	1.25”	3.5 - 7.5	82.53	2.36	80.17

Notes:
BLS - Below land surface
TOC - Top of casing
NGVD - National Geodetic Vertical Datum
BTOC - Below top of casing

The calibration of field testing equipment is checked daily according to the BFA Work Plan (Appendix C). The equipment is calibrated as required according to the manufacturer's instructions. ADESSO is used as the field electronic capture program and relational database for field related data. All data are captured in the field electronically and uploaded to the database and is accessible to interested Navy and OPT members near real time. Table 3 presents the field parameters taken with a multi-parameter water quality meter at stabilization after the completion of well purging. Table 4 includes parameters tested with field test kits.

Table 3 - OU2 March 2011 multi-parameter probe field sampling parameters

Well ID	Date	Temp °C	Sp. Cond. µS/cm	DO mg/L	pH	ORP mV	Turbidity NTU
OLD-OU2-02A	04/06/2011	21.5	394.0	0.63	5.79	61.0	18.30
OLD-OU2-02B	04/06/2011	22.6	256.0	0.43	5.27	101.0	6.60
OLD-OU2-03A	04/06/2011	21.4	553.0	0.51	5.49	156.0	5.50
OLD-OU2-03B	04/06/2011	22.3	347.0	0.22	5.47	90.0	33.30
OLD-OU2-12B	04/07/2011	23.3	137.0	0.95	4.22	28.0	1.70
OLD-OU2-18B	04/07/2011	24.4	139.0	0.29	5.10	24.0	15.80
OLD-OU2-21A	04/08/2011	30.6	226.3	2.86	5.29	-9.0	5.70
OLD-OU2-21B	04/08/2011	26.2	251.3	1.61	5.12	8.0	5.50
OLD-OU2-27A	04/01/2011	22.4	193.4	1.31	5.23	-	1.90
OLD-OU2-27B	04/01/2011	23.3	208.0	1.09	4.78	-96.0	1.10
OLD-OU2-28B	04/01/2011	24.0	124.7	1.18	3.73	-66.0	2.60
OLD-OU2-29A	04/06/2011	22.2	119.5	2.43	4.74	229.0	351.02
OLD-OU2-29B	04/06/2011	23.0	119.9	1.28	4.58	-33.0	25.00
OLD-OU2-30A	04/06/2011	22.1	85.4	0.89	4.46	-28.0	195.20
OLD-OU2-30B	04/06/2011	23.5	566.1	1.01	5.67	39.0	5.10
OLD-OU2-31A	04/08/2011	24.2	43.0	0.97	4.55	292.0	3.90
OLD-OU2-31B	04/08/2011	24.0	180.0	0.46	4.60	89.0	1.90
OLD-OU2-32A	04/01/2011	23.0	58.0	2.27	4.65	360.0	31.30
OLD-OU2-32B	04/01/2011	22.8	126.3	0.97	4.44	-	1.00
OLD-OU2-33A	04/01/2011	22.7	106.0	1.16	4.78	178.0	17.40
OLD-OU2-33B	04/01/2011	23.1	149.0	0.40	4.74	119.0	0.00
OLD-OU2-37B	04/01/2011	23.0	188.3	1.03	5.02	-	8.30
OLD-OU2-41B	04/04/2011	24.2	124.0	0.54	5.08	97.0	2.40
OLD-OU2-42B	04/07/2011	23.6	99.0	0.75	5.10	95.0	4.60
OLD-OU2-43B	04/07/2011	23.5	133.0	0.35	4.81	75.0	1.80
OLD-OU2-44B	04/04/2011	24.1	108.0	0.62	4.89	89.0	10.70
OLD-OU2-45B	04/04/2011	24.0	119.0	0.28	4.96	66.0	5.70
OLD-OU2-46B	04/04/2011	24.1	128.6	1.39	3.96	-	7.50
OLD-OU2-47B	04/07/2011	24.1	134.0	0.75	4.87	62.0	1.30
OLD-OU2-48B	04/04/2011	24.1	259.9	0.93	5.52	-	2.50
OLD-OU2-49B	04/07/2011	22.7	114.0	0.40	4.72	92.0	6.40

Table 3 cont. Well ID	Date	Temp °C	Sp.Cond. µS/cm	DO mg/L	pH	ORP mV	Turbidity NTU
OLD-OU2-50B	04/04/2011	23.6	127.70	1.18	3.83	-99.00	18.60
OLD-OU2-51B	04/07/2011	24.0	110.20	1.11	4.38	-62.00	7.00
OLD-OU2-53B	04/04/2011	24.1	115.00	0.23	5.12	49.00	4.90
OLD-OU2-DP01A	04/07/2011	26.3	302.30	3.57	4.87	39.00	1.20
OLD-OU2-DP02A	04/07/2011	29.5	115.00	0.38	4.77	35.00	4.00
OLD-OU2-LG1	03/30/2011	27.8	144.10	-	7.23	190.00	6.10
OLD-OU2-SW29	03/30/2011	28.2	124.70	-	6.76	199.00	4.80
OLD-OU2-SW30	03/30/2011	27.9	126.20	-	6.97	200.00	8.10
OLD-OU2-SW31	03/30/2011	27.8	129.50	-	6.91	203.00	3.90
OLD-OU2-SW32	04/07/2011	24.5	132.90	-	5.40	244.00	11.60
OLD-OU2-SW33	04/07/2011	28.7	104.40	-	5.90	127.00	2.40
OLD-OU2-SW34	04/07/2011	30.9	109.90	-	5.96	98.00	6.10
OLD-OU2-SW35	03/30/2011	28.9	114.60	-	6.38	177.00	12.50
OLD-OU2-SW36	03/30/2011	28.1	172.30	-	6.41	214.00	1.30

Notes: mg/L-milligrams per liter; µS/cm-micro siemens per centimeter; mV-millivolts; NTU-Nephelometric Turbidity Units

Table 4 - OU2 March 2011 field test kit analytical parameters

Well ID	Date	CO_2 mg/L	DO mg/L	Ferrous Iron mg/L	Hydrogen Sulfide mg/L	Total Sulfide mg/L
OLD-OU2-02A	04/06/2011	0.54	226	2.9	0	0
OLD-OU2-02B	04/06/2011	1.18	140	3	0.53	0.5
OLD-OU2-03A	04/06/2011	0.38	218	4	0	0
OLD-OU2-03B	04/06/2011	0.63	178	3	0	0
OLD-OU2-18B	04/07/2011	0.09	136	1	2.12	2
OLD-OU2-21A	04/08/2011	2.39	21	0	0	0
OLD-OU2-21B	04/08/2011	0.55	57	0.8	1.11	1.05
OLD-OU2-29A	04/06/2011	2.27	38	0.6	0	0
OLD-OU2-29B	04/06/2011	0.25	22	3.2	0.85	0.8
OLD-OU2-31A	04/08/2011	1.78	58	0	0	0
OLD-OU2-31B	04/08/2011	0	194	2	1.59	1.5
OLD-OU2-41B	04/04/2011	0	242	1	-	-
OLD-OU2-42B	04/07/2011	0.48	128	0.8	-	-
OLD-OU2-43B	04/07/2011	0.6	140	0.8	-	-
OLD-OU2-44B	04/04/2011	0	320	1.2	2.06	1.95
OLD-OU2-45B	04/04/2011	0	295	1	-	-
OLD-OU2-46B	04/04/2011	0.89	55	1	-	-
OLD-OU2-47B	04/07/2011	0.38	160	1	-	-
OLD-OU2-48B	04/04/2011	0	93	1.6	-	-
OLD-OU2-49B	04/07/2011	0.35	168	2	-	-
OLD-OU2-50B	04/04/2011	0	93	2	-	-
OLD-OU2-51B	04/07/2011	0	102	1.6	-	-
OLD-OU2-53B	04/04/2011	0	340	0.9	-	-
OLD-OU2-DP02A	04/07/2011	0	158	0.9	2.28	2.15

For all analytes, the screening criterion is the Florida Department of Environmental Protection (FDEP) Maximum Contamination Level (MCLs) as given in the Drinking Water Standards (*F.A.C.* 62-550 Table 1, MCLs for Volatile Organic Compounds), *F.A.C*. 62-777 Table 1 Groundwater and Surface Water Cleanup Target Levels, and *F.A.C.* 62-777 Table V Natural Attenuation Default Concentrations (NADC). For metals, the Background Screening Values from the Background Sampling Report, NTC, Orlando, May, 1995 are used as the primary standard where measurements are above the 62-777 Groundwater Cleanup Target Levels (GCTLs). Table 5 provides a summary of the OU2 groundwater analyte detections and GCTL exceedances for the March 2011 sampling round. Bolded values within Table 5 indicate detected analyte concentrations. Yellow highlights indicate results above the site specific GCTL, FDEP MCL and/or FAC 62-777 GCTL. Orange highlighted values indicate concentrations in excess of FDEP NADC, if appropriate.

Figure 5 shows the concentrations of the contaminants of concern (COC) from the surface water sampling sites and the shallow Zone A monitor wells at OU2. For the surface water sites, there were no analytical detections of any COC above their quantitation limits, with the exception of high iron. Zone A monitor wells are screened between depths of about 3.5 to 17.5 feet below land surface (BLS). At the northern plume area, concentrations of COCs were below GCTLs, with exception of iron which is above the GCTL in all wells sampled. Manganese was significantly higher at well OLD-OU2-03A. At the southern plume area, concentrations of COC appear highest from well OLD-OU2-DP02A. Iron was above the GCTL (300 µg/L) at most sites and manganese exceeded GCTL (50 µg/L) only at well OLD-OU2-27A.

Figure 6 shows the concentrations of the COC from the deeper Zone B monitor wells at OU2, which are screened between depths of about 23 to 39 feet BLS. At the northern plume area, concentrations of COC were below GCTLs, with exception of iron that is above the GCTL in all wells sampled. Concentration of iron and manganese were highest from monitor well OLD-OU2-03B. *The COCs have significantly higher concentrations in Zone B at the southern plume area (between Wells OLD-OU2-41B and OLD-OU2-42B), particularly the chlorinated solvents (TCE, DCE and vinyl chloride parameters).* Iron was high in all Zone B wells sampled, however manganese did not exceed the GCTL in groundwater sampled from any of the Zone B wells. Figures 7 a,b,c show a few selected *source wells* decreasing in concentrations of chlorinated solvents, with exception of well OLD-OU2-53B where vinyl chloride concentration increased from 60.8 µg/L in November 2010 to 293 µg/L in April 2011. Figures 8 a,b,c show a few *compliance wells* slightly increasing in concentrations of chlorinated solvents, with exception of well OLD-OU2-DP02A where vinyl chloride concentration decreased from 8.7 µg/L in November 2010 to 2.7 µg/L in April 2011.

Turbidity has been historically high for several OU2 wells, which may be due to the elevated iron concentrations found within the surficial aquifer or fine grained sediments/suspended solids entering wells through the filter pack/screen. Possible solutions to consider include substantial redevelopment of the wells and/or use of a purge trap-low pressure filter (field filtering) prior to sample collection.

Table 5 - Operable Unit 2 March 2011 Semiannual Analytical Detections

Operable Unit 2		Analyte/ Sample Date	Chlorinated Solvents	Tetrachloroethylene PCE	Trichloroethylene TCE	cis-1,2-Dichloroethylene DCE	Vinyl chloride	Methylene chloride	Fuel Hydrocarbons	Benzene	Isopropylbenzene	Natural Attenuation Parameters	Alkalinity Total as CaCO3	Chloride	Methane	Ethane	Ethene	Iron	Manganese	Carbon Dioxide	Oxygen	Nitrogen	Nitrogen, Ammonia	Nitrogen, Nitrate	Nitrogen, Nitrite	Phosphate, Ortho	Sulfate	Total Organic Carbon
		Units		µg/L	µg/L	µg/L	µg/L	ug/l		µg/L	µg/L		mg/l	mg/l	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	nM	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		GCTL		3	3	70	1	5		1	0.8		-	250	-	-	-	300	50	-	-	-	2.5	10	-	-	250	-
Well ID	Lab ID	NADC		300	300	700	100			100	8		-	-	-	-	-	3000	500	-	-	-	-	-	-	-	-	-
OLD-OU2-02A	F81361-1	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		148	30	1600	0.015	0.026	9250	35.1	220	2.1	12	4.9	0.050	0.050	0.24	4.2	40.1
OLD-OU2-02B	F81361-3	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		20.9	51.1	570	0.009	0.015	2790	12.7 I	160	1.5	12	0.44	0.056	0.050	0.77	13.4	19.1
OLD-OU2-03A	F81361-5	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		80.8	41.9	170	0.016	0.018	6420	647	210	1.5	12	1.7	0.5	0.050	0.082	89.3	30.9
OLD-OU2-03B	F81361-6	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		41.6	56.4	240	0.032	0.028	8340	16	190	1.8	16	3.9	0.065	0.050	1	22.8	13.9
OLD-OU2-12B	F81422-5	04/07/2011		0.25 U	0.88 I	2.4	0.22 U	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-18B	F81422-9	04/07/2011		1.3 U	4.1 I	218	281	10 U		1.0 U	1.0 U		11.5	12	1300	0.025	100	815	19.3	200	0.95	6.5	0.11	0.050	0.050	1.3	12.5	26.8
OLD-OU2-21A	F81494-4	04/08/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		2.5 U	8.3	10	0.006	0.024	45.8 I	1.0 U	100	4.3	15	0.050	NA	NA	NA	5.6	24.3
OLD-OU2-21B	F81494-2	04/08/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		29.7	29.7	710	0.093	0.027	876	13.7 I	270	1.6	11	0.050	NA	NA	NA	21.1	11.5
OLD-OU2-27A	F81309-1	04/01/2011		0.25 U	0.36 I	3	4.3	2.0 U		0.42 I	0.20		NA	NA	NA	NA	NA	3840	228	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-27B	F81309-2	04/01/2011		0.25 U	0.26 U	0.77 I	0.32 I	2.0 U		3.0	0.68 I		NA	NA	NA	NA	NA	973	7.4 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-28B	F81309-4	04/01/2011		0.25 U	0.26 U	0.86 I	2.6	2.0 U		2.2	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-29A	F81361-2	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		23.1	11.5	82	0.025	0.024	1960	2.8 I	81	3.4	18	0.050	0.094	0.050	0.63	11.2	14
OLD-OU2-29B	F81361-4	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		21.3	17.1	800	0.23	0.03	2260	10.7 I	95	1.8	14	0.3	0.050	0.050	1.3	1.0 U	10.4
OLD-OU2-30A	F81361-7	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		NA	NA	NA	NA	NA	9240	26.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-30B	F81361-8	04/06/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.36 I	0.20		NA	NA	NA	NA	NA	2230	82.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-31A	F81494-1	04/08/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		2.5 U	3.7	30	0.025	0.031	105 I	5.6 I	71	2.7	17	0.050	NA	NA	NA	5.2	6.1
OLD-OU2-31B	F81494-3	04/08/2011		3.5	0.80 I	1.7	2.2	2.0 U		27.9	0.69 I		5	25.1	2300	1.3	0.29	1690	6.6 I	410	1.3	9.9	0.050	NA	NA	NA	17.4	24.2
	F81494-5	04/08/2011		2.5	0.59 I	1.7	2.0	2.0 U		29.6	0.56 I		NA	NA	NA	NA	NA	1700	7.3 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-32A	F81309-7	04/01/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		NA	NA	NA	NA	NA	66.2 I	2.1 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-32B	F81309-8	04/01/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.20	0.20		NA	NA	NA	NA	NA	1240	10.4 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-33A	F81309-3	04/01/2011		0.25 U	0.26 U	0.26 U	0.22 U	2.0 U		0.54 I	0.20		NA	NA	NA	NA	NA	1800	9.2 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-33B	F81309-5	04/01/2011		0.59 I	12.3	0.38 I	0.22 U	2.0 U		0.20	0.20		NA	NA	NA	NA	NA	1460	9.0 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-37B	F81309-6	04/01/2011		0.25 U	0.26 U	1.2	0.90 I	2.0 U		1.5	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-41B	F81308-5	04/04/2011		0.41 I	47.6	2.5	0.99 I	2.0 U		1.8	0.20		NA	NA	500	0.01 J	0.25	NA	NA	130	4.7	12	NA	NA	NA	NA	8.5	5.3
OLD-OU2-42B	F81422-1	04/07/2011		5.0 U	1620	454	9.8 I	40 U		4.0 U	4.0 U		NA	NA	1100	0.17	2.7	NA	NA	160	2	14	NA	NA	NA	NA	2.1	6.4
OLD-OU2-43B	F81422-2	04/07/2011		47.7 I	5370	168	22 U	200 U		20 U	20 U		NA	NA	840	0.43	6.3	NA	NA	180	1.7	14	NA	NA	NA	NA	20.5	24.8
OLD-OU2-44B	F81308-2	04/04/2011		6.0 I	771	1610	15.8 I	40 U		4.0 U	4.0 U		NA	NA	1600	0.018	0.72	NA	NA	97	3.9	9.5	NA	NA	NA	NA	12.9	5.6
OLD-OU2-45B	F81308-3	04/04/2011		2.5 U	58.2	852	7.2 I	20 U		2.0 U	2.0 U		NA	NA	4500	0.044	0.98	NA	NA	220	3.1	8.9	NA	NA	NA	NA	7.2	6.3
OLD-OU2-46B	F81308-6	04/04/2011		16.7 I	3840	1550	31.8 I	100 U		10 U	10 U		NA	NA	1500	0.36	5	NA	NA	140	2	12	NA	NA	NA	NA	10.5	25.8
OLD-OU2-47B	F81422-4	04/07/2011		33.3 I	3810	179	12.5 I	100 U		10 U	10 U		NA	NA	380	0.056	0.66	NA	NA	170	1.6	14	NA	NA	NA	NA	19.9	28.2
OLD-OU2-48B	F81308-1	04/04/2011		5.0 U	5.2 U	1810	17.8 I	40 U		4.0 U	4.0 U		NA	NA	1500	0.12	2.3	NA	NA	290	1.4	6.4	NA	NA	NA	NA	6.9	16.8
OLD-OU2-49B	F81422-7	04/07/2011		5.5	178	10.6	1.4	2.0 U		0.21 I	0.20		NA	NA	320	0.14	1.9	NA	NA	110	3.6	14	NA	NA	NA	NA	21.4	25
OLD-OU2-50B	F81308-4	04/04/2011		2.5 U	4.8 I	648	6.5 I	20 U		2.0 U	2.0 U		NA	NA	1200	0.12	2.2	NA	NA	230	1.7	9.5	NA	NA	NA	NA	19.2	24.8
OLD-OU2-51B	F81422-10	04/07/2011		0.50 U	0.56 I	168	7.0	4.0 U		0.40	0.40		NA	NA	1700	0.14	3.4	NA	NA	290	1.1	5.3	NA	NA	NA	NA	1.3 I	23.6
OLD-OU2-53B	F81308-7	04/04/2011		2.5 U	6.0 I	614	293	20 U		2.0 U	2.0 U		NA	NA	4300	0.025	12	NA	NA	170	2.8	8.2	NA	NA	NA	NA	7.7	7.2
OLD-OU2-DP01A	F81422-8	04/07/2011		0.25 U	0.26 U	2	3.4	2.0 U		3.1	0.20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-DP02A	F81422-11	04/07/2011		1.3 U	20.5	242	2.7 I	10 U		1.0 U	1.0 U		6.7	18.8	2100	0.025	0.14	523	1.0 U	150	2	15	0.050	0.096	0.050	0.058	4.9	12.1
	F81422-13	04/07/2011		1.3 U	25.1	255	2.0 I	10 U		1.0 U	1.0 U		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

µg/L - micrograms per liter

U - indicates result less than method detection limit

I - indicates result greater than or equal to method detection limit but less than practical quantitation limit

GCTL - groundwater cleanup target level

NADC - natural attenuation default concentration

F:\HYDRO\PROJECTS\2008\2008-10 NAVFAC Long-Term Monitoring Orlando\Data\drawings\OU2\Figure 5 OU2 Contaminants A.dwg
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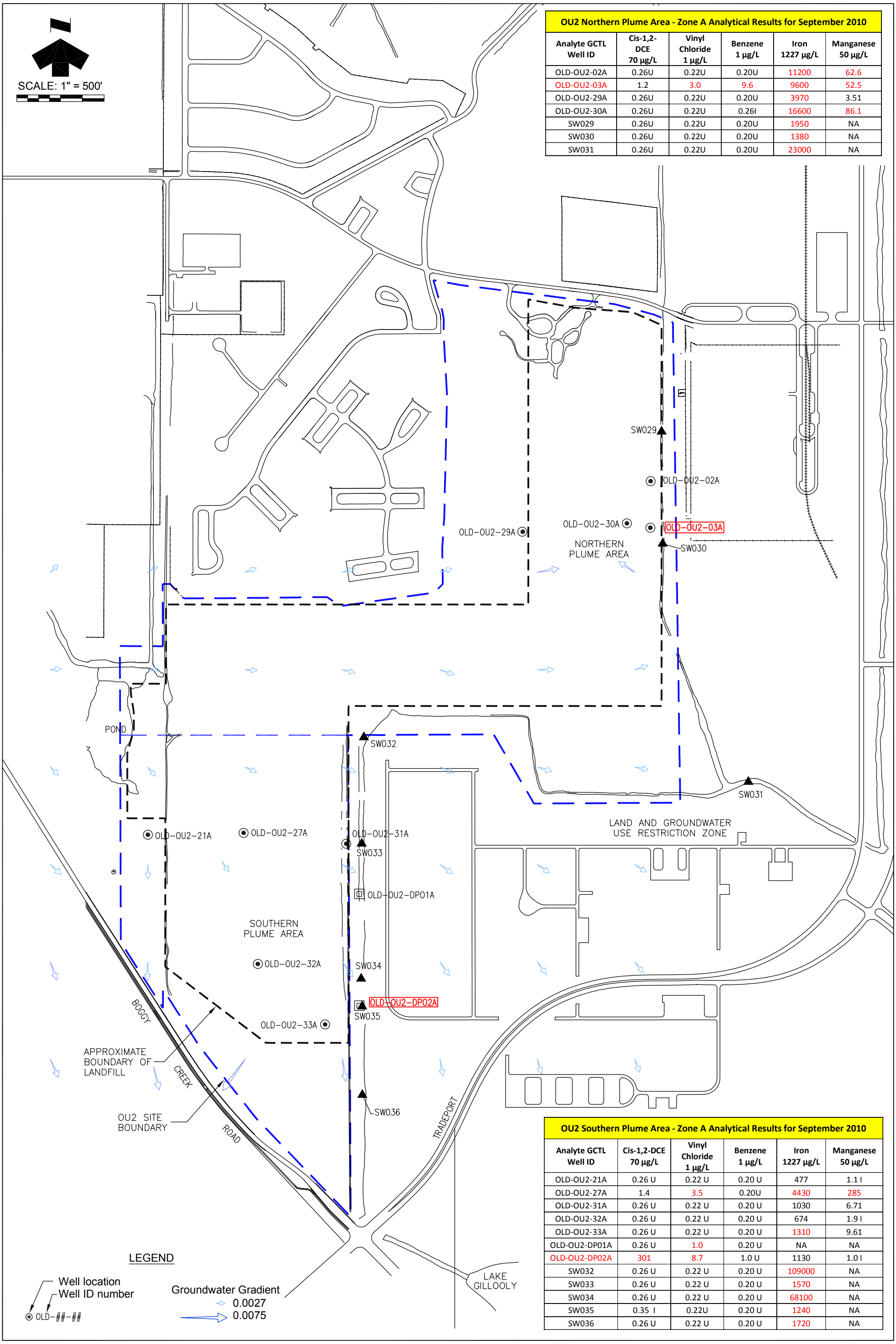

OU2 Northern Plume Area - Zone A Analytical Results for September 2010

Analyte GCTL Well ID	Cis-1,2-DCE 70 µg/L	Vinyl Chloride 1 µg/L	Benzene 1 µg/L	Iron 1227 µg/L	Manganese 50 µg/L
OLD-OU2-02A	0.26U	0.22U	0.20U	11200	62.6
OLD-OU2-03A	1.2	3.0	9.6	9600	52.5
OLD-OU2-29A	0.26U	0.22U	0.20U	3970	3.51
OLD-OU2-30A	0.26U	0.22U	0.26I	16600	86.1
SW029	0.26U	0.22U	0.20U	1950	NA
SW030	0.26U	0.22U	0.20U	1380	NA
SW031	0.26U	0.22U	0.20U	23000	NA

OU2 Southern Plume Area - Zone A Analytical Results for September 2010

Analyte GCTL Well ID	Cis-1,2-DCE 70 µg/L	Vinyl Chloride 1 µg/L	Benzene 1 µg/L	Iron 1227 µg/L	Manganese 50 µg/L
OLD-OU2-21A	0.26 U	0.22 U	0.20 U	477	1.1 I
OLD-OU2-27A	1.4	3.5	0.20U	4430	285
OLD-OU2-31A	0.26 U	0.22 U	0.20 U	1030	6.71
OLD-OU2-32A	0.26 U	0.22 U	0.20 U	674	1.9 I
OLD-OU2-33A	0.26 U	0.22 U	0.20 U	1310	9.61
OLD-OU2-DP01A	0.26 U	1.0	0.20 U	NA	NA
OLD-OU2-DP02A	301	8.7	1.0 U	1130	1.0 I
SW032	0.26 U	0.22 U	0.20 U	109000	NA
SW033	0.26 U	0.22 U	0.20 U	1570	NA
SW034	0.26 U	0.22 U	0.20 U	68100	NA
SW035	0.35 I	0.22U	0.20 U	1240	NA
SW036	0.26 U	0.22 U	0.20 U	1720	NA

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September 2010
Semiannual Monitoring Report
Operable Unit 2 - McCoy Annex

Analytical Results of Contaminants of Concern for Zone A Monitoring Wells

FIGURE 5

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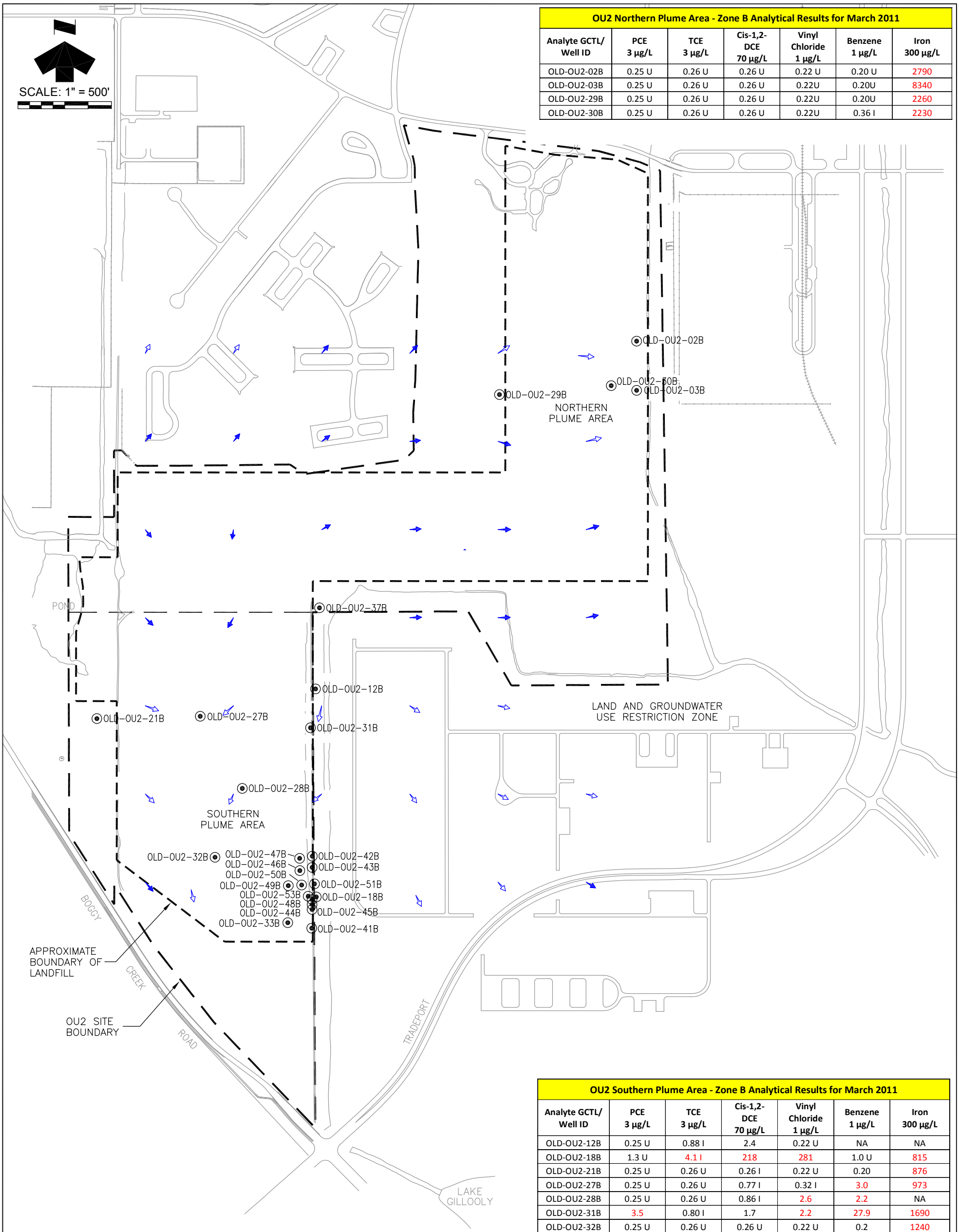

OU2 Northern Plume Area - Zone B Analytical Results for March 2011

Analyte GCTL/ Well ID	PCE 3 µg/L	TCE 3 µg/L	Cis-1,2-DCE 70 µg/L	Vinyl Chloride 1 µg/L	Benzene 1 µg/L	Iron 300 µg/L
OLD-OU2-02B	0.25 U	0.26 U	0.26 U	0.22 U	0.20 U	2790
OLD-OU2-03B	0.25 U	0.26 U	0.26 U	0.22U	0.20U	8340
OLD-OU2-29B	0.25 U	0.26 U	0.26 U	0.22U	0.20U	2260
OLD-OU2-30B	0.25 U	0.26 U	0.26 U	0.22U	0.36 I	2230

OU2 Southern Plume Area - Zone B Analytical Results for March 2011

Analyte GCTL/ Well ID	PCE 3 µg/L	TCE 3 µg/L	Cis-1,2-DCE 70 µg/L	Vinyl Chloride 1 µg/L	Benzene 1 µg/L	Iron 300 µg/L
OLD-OU2-12B	0.25 U	0.88 I	2.4	0.22 U	NA	NA
OLD-OU2-18B	1.3 U	4.1 I	218	281	1.0 U	815
OLD-OU2-21B	0.25 U	0.26 U	0.26 I	0.22 U	0.20	876
OLD-OU2-27B	0.25 U	0.26 U	0.77 I	0.32 I	3.0	973
OLD-OU2-28B	0.25 U	0.26 U	0.86 I	2.6	2.2	NA
OLD-OU2-31B	3.5	0.80 I	1.7	2.2	27.9	1690
OLD-OU2-32B	0.25 U	0.26 U	0.26 U	0.22 U	0.2	1240
OLD-OU2-33B	0.59 I	12.3	0.38 I	0.22 U	0.2	1460
OLD-OU2-37B	0.25 U	0.26 U	1.2	0.90 I	1.5	NA
OLD-OU2-41B	0.41 I	47.60	2.5	0.99 I	1.8	NA
OLD-OU2-42B	5.0 U	1620	454	9.8 I	4.0 U	NA
OLD-OU2-43B	47.7 I	5370	168	22 U	20 U	NA
OLD-OU2-44B	6.0 I	771	1610	15.8 I	4.0 U	NA
OLD-OU2-45B	2.5 U	58.2	852	7.2 I	2.0 U	NA
OLD-OU2-46B	16.7 I	3480	1550	31.8 I	10.0 U	NA
OLD-OU2-47B	33.3 I	3810	179	12.5 I	10.0 U	NA
OLD-OU2-48B	5.0 U	5.2 U	1810	17.8 I	4.0 U	NA
OLD-OU2-49B	5.5	178	10.6	1.4	0.21 I	NA
OLD-OU2-50B	2.5 U	4.8 I	648	6.5 I	2.0 U	NA
OLD-OU2-51B	0.5 U	0.56 I	168	7.0	0.40	NA
OLD-OU2-53B	2.5 U	6.0 I	614	293	2.0 U	NA

LEGEND

Well location
Well ID number
OLD-##-##

Groundwater Gradient
0.0027
0.0075

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Engineering Buisness No. 6899

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Semiannual Monitoring Report
Operable Unit 2 - McCoy Annex

Analytical Results of Contaminants of Concern for Zone B Monitoring Wells

FIGURE 6

Figure 7 a, b, c - Graphs of COC concentrations for selected source wells at OU2

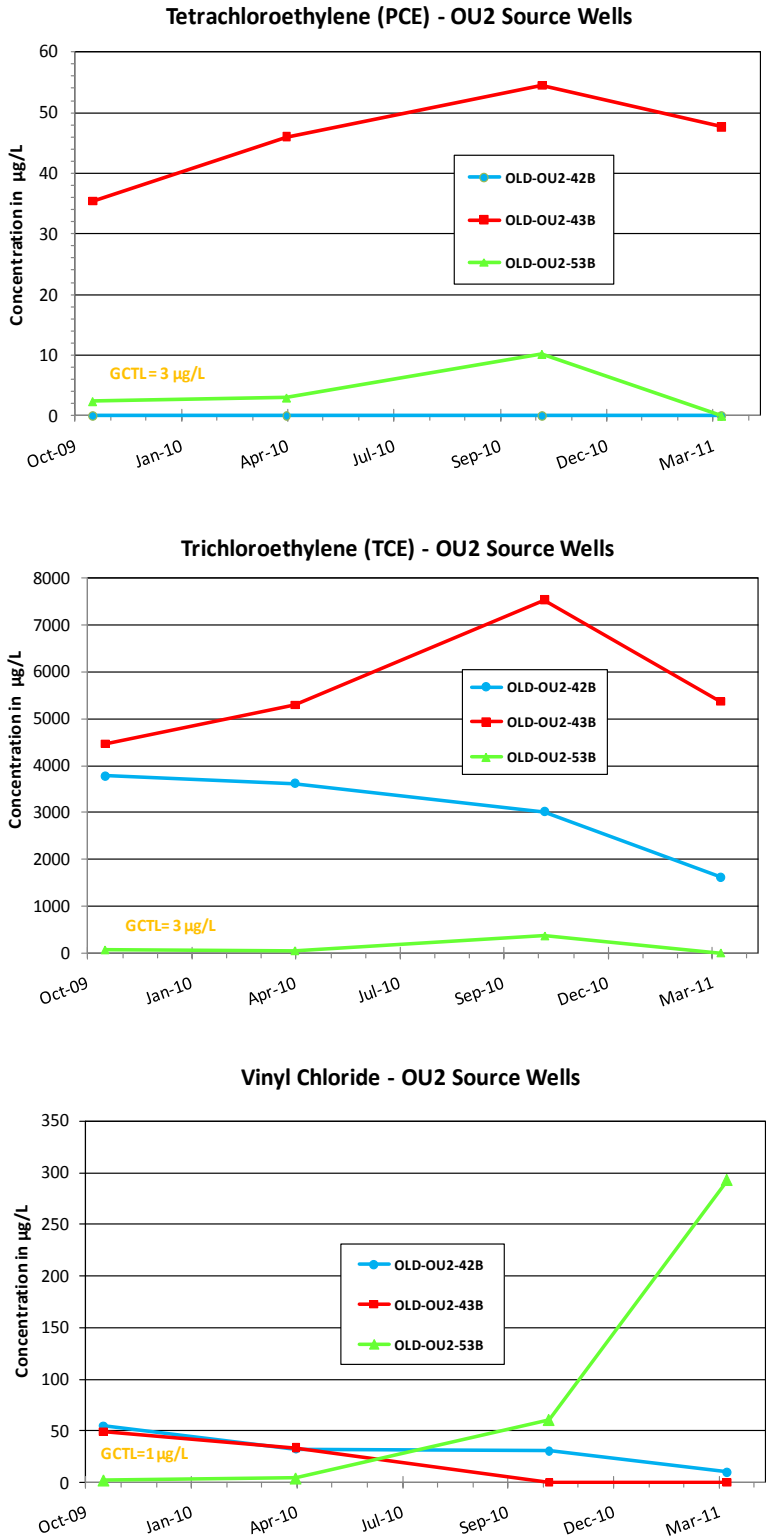
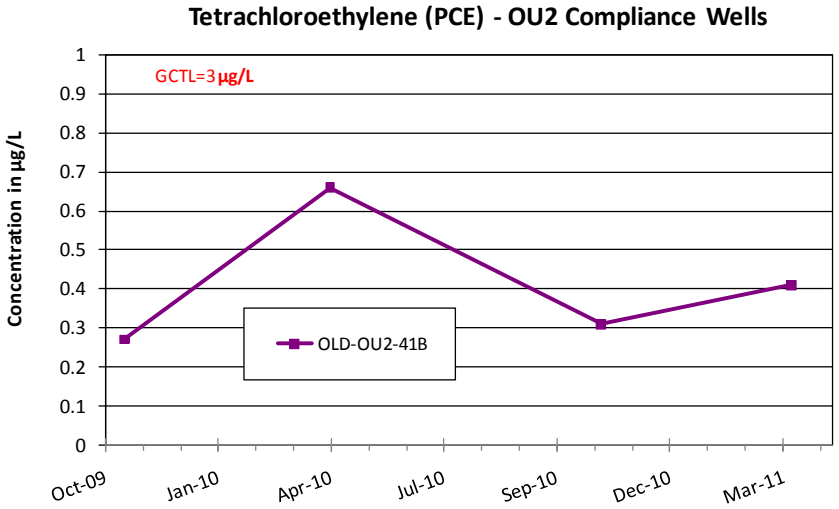
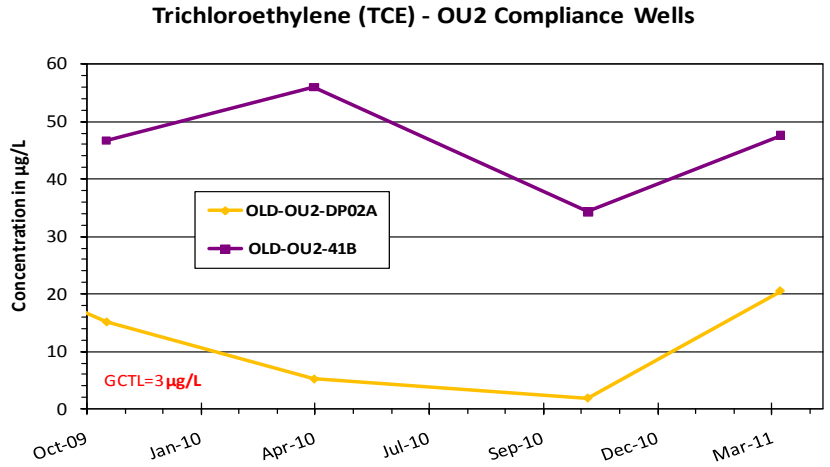
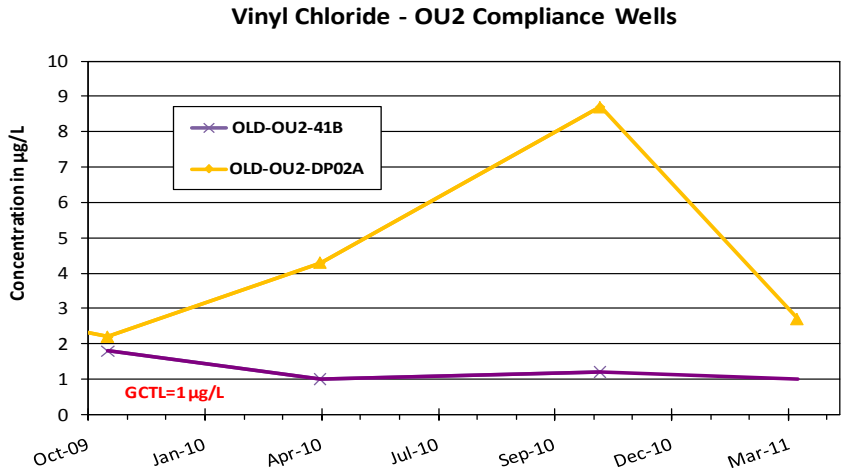


Figure 8 a, b, c - Graphs of COC concentrations for selected compliance wells at OU2







2.3 Evaluation of Natural Biodegredation

For most chlorinated solvents, the initial biotransformation in the environment is a reductive dechlorination. An initial screening process for assessing the potential for natural biodegradation of chlorinated compounds is described in USEPA protocol document titled, *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater (Wiedemeier, et. al., 1998)*. The screening process is designed to recognize geochemical environments where reductive dechlorination is plausible and involves awarding points based on concentrations of various analytical parameters. The degree of evidence for reductive dechlorination is based on the total points awarded, after assigning points to site-specific data, and is interpreted as follows:

- 0 to 5 Inadequate evidence
- 6 to 14 Limited evidence
- 15 to 20 Adequate evidence
- > 20 Strong evidence

The March 2011 groundwater monitoring data from eight monitor wells at the southern plume area (most contaminated) were evaluated for indications of anerobic biodegradation of chlorinated organics/solvents. Table 7 presents the completed work sheet used to assign point values for the analytical and field parameters. Total point scoring for the wells ranges from 12 to 23 points. Generally there was less evidence for reductive dechlorination than the previous September 2011 sampling round for these wells. Four of the wells had limited evidence for reductive dechlorination, three wells had adequate evidence and one shallow well (OLD-OU2-DP02A) had strong evidence. In summary, the presence of daughter products TCE, cis-12 DCE and vinyl chloride, the downward trend of chlorinated solvents (Figures 7 a,b,c) and the USEPA screening protocol suggest that reductive dechlorination processes are occurring at the most contaminated area of the OU2 site.

Table 6 - OU2 March 2011 Analytical Parameters for Preliminary Screening for Anerobic Biodegredation Processes

Parameter	Concentration in Most Contaminated Zone	Weight Value	OLD-OU2-DP02A		OLD-OU2-03A		OLD-OU2-42B		OLD-OU2-43B		OLD-OU2-44B		OLD-OU2-46B		OLD-OU2-47B		OLD-OU2-53B	
			Result	Value	Result	Value	Result	Value	Result	Value	Result	Value	Result	Value	Result	Value	Result	Value
Dissolved Oxygen*	<0.5 mg/L >5.0 mg/L	3 -3	0.38	3	0.51	0	0.75	0	0.35	3	0.62	0	1.39	0	0.75	0	0.23	3
Nitrate*	<1 mg/L	2	0.05	2	0.5	2	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Iron II*	>1 mg/L	3	0.9	0	4.0	3	0.8	0	0.8	0	1.2	3	1.0	3	1.0	3	NA	0
Sulfate*	<20 mg/L	2	4.9	2	89.3	0	2.1	2	20.5	0	12.9	2	10.5	2	19.9	2	9.7	2
Sulfide*	>1 mg/L	3	2.15	3	0	0	NA	---	NA	---	1.95	3	NA	---	NA	---	NA	---
Methane*	<0.5 mg/L >0.5 mg/L	0 3	2.1	3	0.17	0	1.1	3	0.84	3	1.6	3	1.5	3	0.38	0	4.3	3
Oxidation Reduction Potential* (ORP) against	< 50 millivolts (mV) <-100 mV	1 2	35	1	156	0	95	0	7.5	1	89	0	NA	---	62	0	49	1
pH*	5 < pH < 9 5 > pH > 9	0 -2	4.77	-2	5.49	0	5.1	0	4.81	-2	4.89	-2	3.96	-2	4.87	-2	5.12	0
TOC	>20 mg/L	2	12.1	0	30.9	2	6.4	0	24.8	2	24.8	2	25.8	2	28.2	2	7.2	0
Temperature*	> 20°C	1	29.5	1	21.4	1	23.6	1	23.5	1	24.1	1	24.1	1	24.1	1	24.1	1
Carbon Dioxide	>2x background (Background A=38, B=127)	1	150	1	210	1	160	0	180	0	97	0	140	0	170	0	170	0
Alkalinity	>2x background (A=0, B=30)	1	6.7	1	80.8	1	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Chloride*	>2x background (A=8,B=24)	2	18.8	2	41.9	2	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Hydrogen	>1 nM <1nM	3 0	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Volatile Fatty Acids	>0.1 mg/L	2	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
BTEX*	>0.1 mg/L	2	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Tetrachloroethene (PCE)	Material Released	0	1.3 U	0	0.25 U	0	5.0 U	0	47.7 I	0	6.0 I	0	16.7 I	0	33.3 I	0	2.5 U	0
*Trichloroethene (TCE)		0	20.5	2	0.26 U	0	1620	2	5370	2	771	2	3840	2	3810	2	6.0 I	2
cis 1,2-DCE*		0	242	2	0.26 U	0	454	2	168	2	1610	2	1550	2	179	2	614	2
Vinyl Chloride*		0	2.7 I	2	0.22 U	0	9.8 I	2	22.0 U	0	15.8 I	2	31.8 I	2	12.5 I	2	293	2
1,1,1-Trichloroethane*		0	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
DCA		2	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Carbon Tetrachloride		0	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Chloroethane*		2	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Ethene/Ethane	>0.01 mg/L >0.1 mg/L	2 3	ND	0	ND	0	0.0027	0	0.0063	0	0.007	0	0.005	0	0.0006	0	0.012	2
Chloroform		0	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Dichloromethane		0	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---	NA	---
Total Points Awarded				23		12		12		12		18		15		12		18

*Required analysis. **Points awarded only if shows that the compound is a daughter product (i.e., not a constituent of the source NAPL).
It is being assumed that PCE was the material released and all other VOH are degradation products
Background values are taken from wells 21 A and B , which are within the landfill but uncontaminated by VOH or VOC
ND - not detected
NA - not analyzed
I - indicates result greater than or equal to method detection limit but less than practical quantitation limit
U- indicates result less than detection method limit

Section 3 - Conclusions and Recommendations

This report presents the field sampling and laboratory analytical results for the March 2011 groundwater sampling event performed at Operable Unit 2 (OU2) - McCoy Annex, which included 36 monitor wells and 8 surface water sampling sites. The following is a summary of the data interpretations and main conclusions and recommendations.

3.1 Conclusions

1. Groundwater level measurements were collected from 36 monitoring wells on March 29, 2011. At the OU2 site, monitor wells are screened in two surficial aquifer zones below land surface (bls) as follows: shallow Zone A (3.4-17.4 ft bls) and intermediate Zone B (23-39 ft bls). Two contaminant plume areas (north and south) exist at the OU2 site. At the southern plume area, the groundwater flow patterns in both Zones A and B appear to be from the northwest toward the southeast (Figures 3 and 4). At the northern plume area, the flow patterns in both Zones A and B appear to be from the west toward the east (Figures 3 and 4).

2. The principal contaminants of concern (COC) are benzene, iron, and manganese in the northern plume area, and benzene and chlorinated solvents (such as PCE, TCE and vinyl chloride) in the southern plume area. The COC have significantly higher concentrations of chlorinated solvents in Zone B at the southern plume area particularly between Wells OLD-OU2-41B and OLD-OU2-42B (Table 5).

3. The March 2011 groundwater monitoring data from eight monitor wells at the southern plume area (most contaminated zone) were evaluated for indications of anaerobic biodegradation of chlorinated organic/solvents. Total point scoring for the wells ranges from 12 to 23 points. Generally there was less evidence for reductive dechlorination than the previous September 2011 sampling round for these wells. Four of the wells had limited evidence for reductive dechlorination, three wells had adequate evidence and one shallow well (OLD-OU2-DP02A) had strong evidence.

4. Iron is above cleanup target levels in all of the surface water sampling sites and most upper surficial groundwater wells. Iron is a common analyte found in Florida waters naturally, and is also a normal constituent of landfill leachate. It is often the product of the breakdown of marine clays in an acidic groundwater environment.

5. In summary, the presence of daughter products TCE, cis-12 DCE and vinyl chloride, the downward trend of chlorinated solvents (Figures 7 a,b,c) and the USEPA screening protocol suggest that reductive dechlorination processes are occurring at the most contaminated area of the OU2 site.

3.2 Recommendations

1. Continued semiannual sampling and analysis is recommended for monitor wells and the parameters identified in the current Sampling Plan for OU2 (Table 1).

2. Turbidity has been historically high for several OU2 wells which may be due to the elevated iron concentrations or fine grained sediments/suspended solids entering wells through the filter pack/screen. Possible solutions to consider include substantial redevelopment of the wells and/or use of a purge trap-low pressure filter (field filtering) prior to sample collection.

3. There are VOH constituents in concentrations above GCTL in downgradient compliance wells for both Zones A and B. The OPT may consider installing new downgradient compliance wells in both Zones A and B near the Boggy Creek Road and Tradeport Drive intersection.

Section 4 - Selected References

Adamski, J.C and German, E.R., 2004, Hydrogeology and Quality of Ground Water in Orange County, Florida, U.S. Geological Survey Water-Resources Report of Investigations Report 03-4257; Tallahassee FL 2004.

Barnes, Ferland and Associates, Inc., February 2011, September, 2010 Semiannual Monitoring Report Operable Unit 2, McCoy Annex Former Naval Training Center Orlando, Florida.

Barnes, Ferland and Associates, Inc., July 2010, Enclosure 4, March, 2010 Semiannual Monitoring Report Operable Unit 2, McCoy Annex Former Naval Training Center Orlando, Florida.

Barnes, Ferland and Associates, Inc., Jan 2010, Enclosure 3, September 2009 Semiannual Monitoring Report Operable Unit 2, McCoy Annex Former Naval Training Center Orlando, Florida.

Barnes, Ferland and Associates, Inc., September 2009, Enclosure 2, March, 2009 Semiannual Monitoring Report for Operable Unit 2, McCoy Annex Former Naval Training Center Orlando, Florida.

Barnes, Ferland and Associates, Inc., March, 2009, Enclosure 1 September 2008 Groundwater Sampling report for Operable Unit 2 Former Naval Training Center, Orlando.

Barnes, Ferland and Associates, Inc., March, 2009, OU2 2008 General Monitoring Report Former Naval Training Center Orlando, Florida.

Barnes, Ferland and Associates, Inc., June, 2008, Work Plan Long Term Monitoring Services Former Naval Training Center, Orlando, Florida.

Murray, L.C, and K.J. Halford, Hydrogeologic Conditions and Simulation of Ground-Water Flow in the Greater Orlando Metropolitan Area, East-Central, Florida. U.S. Geological Survey Water-Resources Investigations Report 96-4181; Tallahassee FL 1996.

Wiedemeir, T. H. and others, September, 1998, Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water. USEPA Office of Research and Development, Washington DC, EPA/600/R-98-128.

APPENDIX A
Previous Analytical Results (2008-2011)

Appendix A - Operable Unit 2 Historical Laboratory Analytical Results (2008-2011)

Appendix A Operable Unit 2 Analytical Results 10-2008 to 03-2011		Chemical Name	Benzene	cis-1,2-Dichloroethylene	Isopropylbenzene	Methylene chloride	Tetrachloroethylene	Trichloroethylene	Vinyl chloride	Iron	Manganese	Methane	Ethane	Ethene	Carbon Dioxide	Oxygen	Nitrogen	Hydrogen	Alkalinity, Total as CaCO	Chloride	Nitrogen, Ammonia	Nitrogen, Nitrate	Nitrogen, Nitrite	Orthophosphate	Sulfate	Total Organic Carbon
		CAS-RN	71-43-2	156-59-2	98-82-8	75-09-2	127-18-4	79-01-6	75-01-4	7439-89-6	7439-96-5	74-82-8	74-84-0	74-85-1	124-38-9	7782-44-7	17778-88-0	1333-74-0	E1640192	16887-00-6	E966655	14797-55-8	14797-65-0	14265-44-2	14808-79-8	E701250
		Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		GCTL	1	70	0.8	5	3	3	1	300	50	-	-	-	-	-	-	-	-	250	2.8	10	1	-	250	-
		NADSC	10	700	8	500	300	30	10	3000	500	-	-	-	-	-	-	-	-	2500	28	1000	100	-	25000	-
Well ID	Lab ID	BGSV	-	-	-	-	-	-	-	1227	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OLD-OU2-02A	F60667-3	10/06/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	24300	72.2	NA	NA	NA	NA	2.4	NA	1.2	16	0.050 U	12	12.4	0.080 I	269	NA	23.9
	F64318-18	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	34300	209	2010	0.32 U	0.43 U	NA	3.1	NA	1.3	620	24.4	51.7	0.050 U	0.050 U	0.040 U	1.0 U	73.4
	F68804-6	10/14/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	7520	64.6	1060	0.32 U	0.43 U	NA	3.4	NA	3.1	215	24.1	14.5	0.050 U	0.050 U	0.23	8	0.22 U
	F72702-3	04/05/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	22500	153	1020	0.32 U	0.43 U	NA	NA	NA	7.3	374	24.9	20.4	1	0.050 U	0.020 U	6.3	55.6
	F77624-1	10/28/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	11200	62.6	1330	0.32 U	0.43 U	NA	1.11	NA	NA	201	31.4	9.7	0.050 U	0.050 U	11.7	12.8	26.7
	F81361-1	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	9250	35.1	1600	0.015 J	0.026	220	2.1	12	NA	148	30	4.9	0.050 U	0.050 U	0.24	4.2	40.1
OLD-OU2-02B	F60666-2	10/07/2008	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	3870	16.7	77.3	0.32 U	0.43 U	170	1.4	17	0.92	11.8	0.050 U	0.11	27	0.1	12.4	NA	59.1
	F64318-19	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	2660	14.9 I	114	0.32 U	0.43 U	NA	4.8	NA	1.3	26.4	47.8	0.050 U	0.11	0.050 U	0.15	19.3	9.9
	F68804-7	10/14/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	2980	22.7	153	0.32 U	0.43 U	NA	3.7	NA	2	27.2	46.8	0.44	0.050 U	0.050 U	1.1	14	0.22 U
	F72702-1	04/05/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	7900	13.6 I	235	0.32 U	0.43 U	NA	NA	NA	6.1	14.9	48	0.34	0.050 U	0.050 U	1.3	13.5	9.8
	F77624-2	10/28/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	2850	14.3 I	327	0.32 U	0.43 U	NA	0.79	NA	NA	26.9	51.2	0.38	0.050 U	0.050 U	0.45	12.1	8.8
	F81361-3	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	2790	12.7 I	570	0.009 J	0.015 J	160	1.5	12	NA	20.9	51.1	0.44	0.056 I	0.050 U	0.77	13.4	19.1
OLD-OU2-03A	F60666-1	10/07/2008	8.8	1.4	NA	1.0 U	0.22 U	0.32 I	2.9	12600	66.5	4130	0.32 U	0.43 U	NA	2.4	NA	1.7	55.1	0.050 U	0.83	8	0.090 I	37.3	NA	62.7
	F64318-16	03/31/2009	0.71	0.20 U	0.20 U	1.1	0.22 U	0.32 U	0.30 U	6100	337	3490	0.32 U	0.43 U	NA	4.4	NA	1.1	203	70.6	4.3	0.13	0.050 U	0.20 U	15.2	30.1
	F68838-16	10/15/2009	7.6	1.2	0.20 U	1.0 U	0.22 U	0.32 U	3.4	9440	53.7	2460	0.32 U	0.43 U	NA	3.3	NA	5.5	65.5	64.7	0.98	0.050 U	0.050 U	0.16	1.0 U	21.3
	F72652-1	04/02/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	6080	477	322	0.32 U	0.43 U	NA	NA	NA	4.3	106	14.2	0.86	0.070 I	0.050 U	0.036 I	39	22.2
	F77624-3	10/28/2010	9.6	1.2	0.22 I	2.0 U	0.25 U	0.26 U	3	9600	52.5	2700	0.32 U	0.43 U	NA	1.19	NA	NA	54.1	71.7	0.72	0.050 U	0.050 U	0.077 I	1.7 I	14.6
	F81361-5	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	6420	647	170	0.016 J	0.018 J	210	1.5	12	NA	80.8	41.9	1.7	0.5	0.050 U	0.082 I	89.3	30.9
OLD-OU2-03B	F60665-4	10/06/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	4.4	0.30 U	14500	23.2	315	0.32 U	0.43 U	NA	0.83	NA	NA	39.9	0.050 U	7.3	24.4	0.050 U	61.5	NA	61
	F64318-17	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	9060	21.5	351	0.32 U	0.43 U	NA	5.4	NA	7.7	72.1	64.6	6.3	0.11	0.050 U	0.26	18.1	10.9
	F68838-17	10/15/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	12700	20.3	437	0.32 U	0.43 U	NA	4.4	NA	2.5	72.4	59.2	5.8	0.050 U	0.050 U	0.20 U	15.1	14.9
	F72652-2	04/02/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	9190	15.3	241	0.32 U	0.43 U	NA	NA	NA	6	61	53.1	4.6	0.050 U	0.050 U	1	13.7	14.2
	F77624-4	10/28/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	7850	19.3	321	0.32 U	0.43 U	NA	0.51	NA	NA	47.9	55.4	3.7	0.050 U	0.050 U	0.020 U	12.6	10.4
	F81361-6	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	8340	16	240	0.032	0.028	190	1.8	16	NA	41.6	56.4	3.9	0.065 I	0.050 U	1	22.8	13.9
OLD-OU2-12B	F60665-3	10/06/2008	0.96 I	1.8	NA	1.0 U	0.22 U	0.57 I	0.70 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F64242-1	03/26/2009	0.40 U	0.35	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F68838-21	10/16/2009	0.45	0.47	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72703-3	04/06/2010	2.3	2.4	0.20 U	2.0 U	0.44 U	0.71 I	0.84 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77711-13	11/01/2010	4.4	5.2	0.20 U	2.0 U	0.25 U	0.55 I	1.4	NA	NA	NA	NA	NA	NA	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81422-5	04/07/2011	NA	2.4	NA	NA	0.25 U	0.88 I	0.22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-18B	F60665-5	10/06/2008	20 U	174	NA	76.4 I	21.5 I	3,380	33.5 I	1260	8.7 I	585	0.42 I	3.43	NA	2.10	NA	2.1	6.8	0.050 U	0.050 U	19.2	0.050 U	9.4	NA	15.9
	F64242-2	03/26/2009	8.0 U	1640	0.20 U	39.7	4.4 U	6.4 U	48.1	2650	19.5	2650	0.62	6.52	NA	3	NA	14	30.8	13.8	0.050 U	0.050 U	0.080 I	0.18	1.0 U	84.1
	F68882-6	10/19/2009	8.0 U	1120	4.0 U	20 U	4.4 U	6.4 U	703	2720	73	5290	0.32 U	21	NA	NA	NA	12	86.6	13.6	0.050 U	0.050 U	0.14	0.25	1.0 U	134
	F72703-4	04/06/2010	0.30 I	1470	0.20 U	2.0 U	0.44 U	7.5	453	1210	25.8	6430	0.32 U	24.5	NA	NA	NA	8.3	26.2	15.5	0.050 U	0.050 U	0.050 U	1.4	13.6	8.3
	F77795-9	11/03/2010	1.0 U	333	1.0 U	10 U	1.3 U	3.4 I	904	1150	22	13200	0.32 U	138	NA	0.11	NA	NA	44.8	13.6	0.050 U	0.1	0.050 U	1.2	1.0 U	7.9
	F81422-9	04/07/2011	1.0 U	218	1.0 U	10 U	1.3 U	4.1 I	281	815	19.3	13000	0.025	100	200	0.95	6.5	NA	11.5	12	0.11	0.050 U	0.050 U	1.3	12.5	26.8
OLD-OU2-21A	F60667-1	10/06/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	1310	1.0 U	NA	NA	NA	NA	1.20	NA	1.4	8.1	0.050 U	0.050 U	10.2	0.050 U	2.5 U	NA	8
	F64318-12	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	74.1 I	8.5 I	1.49	0.32 U	0.43 U	NA	4.5	NA	1.2	2.5 U	7.40	0.050 U	0.050 U	0.050 U	0.020 U	7.90	2.90
	F68838-18	10/15/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	465	1.0 U	84.4	0.32 U	0.43 U	NA	4.8	NA	2.8	2.5 U	12.7	0.050 U	0.050 U	0.050 U	0.020 U	4.6	7.6
	F72703-2	04/06/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	60.9 I	1.0 I	6.44	0.32 U	0.43 U	NA	NA	NA	3.6	2.5 U	4.2	0.050 U	0.060 I	0.050 U	0.024 I	5.8	3.3
	F77795-4	11/05/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	477	1.1 I	69.7	0.32 U	0.43 U	NA	0.76	NA	NA	2.5 U	14.9	0.050 U	0.050 U	0.050 U	0.024 I	7	7.7
	F81494-4	04/08/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	45.8 I	1.0 U	10	0.006 J	0.024 J	100	4.3	15	NA	2.5 U	8.3	0.050 U	NA	NA	NA	5.6	24.3
OLD-OU2-21B	F60667-2	10/06/2008	0.40 U	0.98 I	NA	1.0 U	0.22 U	0.32 U	0.30 U	1160	13.8 I	1040	0.32 U	0.43 U	NA	1.3	NA	1.1	17.5	0.050 U	0.050 U	17.5	0.050 U	24.5	NA	25.3
	F64318-11	03/31/2009	0.40 U	0.88	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	1450	19.6	658	0.32 U	0.43 U	NA	3.8	NA	3.4	34.8	24.4	0.050 U	0.050 U	0.050 U	1.5	20.9	7.5
	F68838-19	10/15/2009	0.40 U	0.7	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	1510	14.2	837	0.32 U	0.43 U	NA	4.3	NA	2.8	33.2	24.6	0.1	0.050 U	0.050 U	0.25	7.1	12.5
	F72703-1	04/06/2010	0.21 U	0.76 I	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	1060	12.9 I	364	0.32 U	0.43 U	NA	NA	NA	28	30.1	24.7	0.050 U	0.050 U	0.050 U	0.15	12.4	7.9
	F77795-5	11/05/2010	0.22 I	0.53 I	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1200	15.6	564	0.32 U	0.43 U	NA	0.47	NA	NA	43.9	28.6	0.12	0.050 U	0.050 U	0.23	13.2	8.5
	F81494-2	04/08/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	876	13.7 I	710	0.093	0.027	270	1.6	11	NA	29.7	29.7	0.050 U	NA	NA	NA	21.1	11.5
OLD-OU2-27A	F60562-15	10/02/2008	0.40 U	0.57 I	NA	1.0 U	0.22 U	0.32 U	0.30 U	8520	922	75.2	0.32 U	0.43 U	NA	1.2	NA	1.2	21.1	0.050 U	3	49	0.050 U	42.8	NA	14.4
	F64242-18	03/27/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	5740	388	74.8	0.32 U	0.43 U	NA	7.3	NA	4.4	27.6	11.3	2.1	0.050 U	0.050 U	0.024 I	33.4	17.2
	F68838-13	10/15/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	11300	525	42.2	0.32 U	0.43 U	NA	4	NA	2.4	49	10.2	2.2	0.050 U	0.050 U	0.07	47.2	15.2
	F72702-9	04/05/2010	0.31 I	1	0.20 U	2.0 U	0.44 U	0.24 U	8.6	4530	343	399	10.7	6.39	NA	NA	NA	5.3	24.9	19.1	1.2	0.050 U	0.050 U	0.020 U	21.4	16.9
	F77934-1	11/08/2010	0.20 U	1.4	0.20 U	2.0 U	0.25 U	0.26 U	3.5	4430	285	NA	NA	NA	NA	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-1	04/01/2011	0.42 I	3	0.20 U	2.0 U	0.25 U	0.36 I	4.3	3840	228	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix A - Operable Unit 2 Historical Laboratory Analytical Results (2008-2011)

Appendix A Operable Unit 2 Analytical Results 10-2008 to 03-2011		Chemical Name	GC/MS Volatiles (SW846 8260B)							Metals Analysis		Biogenic Gases							General Chemistry							
			Benzene	cis-1,2-Dichloroethylene	Isopropylbenzene	Methylene chloride	Tetrachloroethylene	Trichloroethylene	Vinyl chloride	Iron	Manganese	Methane	Ethane	Ethene	Carbon Dioxide	Oxygen	Nitrogen	Hydrogen	Alkalinity, Total as CaCO	Chloride	Nitrogen, Ammonia	Nitrogen, Nitrate	Nitrogen, Nitrite	Orthophosphate	Sulfate	Total Organic Carbon
		CAS-RN	71-43-2	156-59-2	98-82-8	75-09-2	127-18-4	79-01-6	75-01-4	7439-89-6	7439-96-5	74-82-8	74-84-0	74-85-1	124-38-9	7782-44-7	17778-88-0	1333-74-0	E1640192	16887-00-6	E966655	14797-55-8	14797-65-0	14265-44-2	14808-79-8	E701250
		Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		GCTL	1	70	0.8	5	3	3	1	300	50	-	-	-	-	-	-	-	-	250	2.8	10	1	-	250	-
		NADSC	10	700	8	500	300	30	10	3000	500	-	-	-	-	-	-	-	-	2500	28	1000	100	-	25000	-
OLD-OU2-27B	F60562-16	10/02/2008	12	0.54 I	NA	1.0 U	0.22 U	0.32 U	0.30 U	1070	3.8 I	2570	0.39 I	0.43 U	NA	1.5	NA	1.7	15.6	0.050 U	1.1	16.4	0.050 U	6.1		28.1
	F64242-17	03/27/2009	7.4	1	0.24	1.0 U	0.22 U	0.32 U	0.30 U	888	5.0 I	1990	0.35	0.43 U	NA	3.6	NA	2.2	5.5	30.1	1.2	0.050 U	0.050 U	0.52	7.6	14.3
	F68838-12	10/15/2009	4	0.68	0.28	1.0 U	0.22 U	0.32 U	2.3	1470	4.5	838	0.46	0.73	NA	2.5	NA	2.8	7.1	21.8	1.1	0.050 U	0.050 U	0.11	26.4	14.2
	F72702-10	04/05/2010	2.8	0.58 I	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	1190	7.4 I	1290	0.32 U	0.43 U	NA	NA	NA	6	2.6 I	24.8	0.39	0.050 U	0.050 U	0.1	30.3	12.6
	F77934-2	11/08/2010	3.2	1.3	0.39 I	2.0 U	0.25 U	0.26 U	0.71 I	1490	5.4 I	NA	NA	NA	NA	0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-2	04/01/2011	3	0.77 I	0.68 I	2.0 U	0.25 U	0.26 U	0.32 I	973	7.4 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-28B	F60499-3	10/01/2008	0.60 I	0.29 I	NA	1.0 U	0.22 U	0.32 U	0.76 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F64242-16	03/27/2009	0.40 U	0.29 I	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F68804-3	10/14/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72702-8	04/05/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77934-5	11/08/2010	0.54 I	0.44 I	0.20 U	2.0 U	0.25 U	0.26 U	2.2	NA	NA	NA	NA	NA	NA	0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-4	04/01/2011	2.2	0.86 I	0.20 U	2.0 U	0.25 U	0.26 U	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-29A	F60562-9	10/03/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	6350	4.9 I	127	0.32 U	0.43 U	NA	0.38	NA	1.2	37.3	0.050 U	0.24	35.6	0.050 U	12.9	NA	32.8
	F64318-2	03/30/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	5240	3.7 I	187	0.32 U	0.43 U	NA	4	NA	8	5.3	22.4	0.25	0.050 U	0.050 U	0.42	13.7	12.2
	F68838-14	10/15/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	1990	3.5	40.9	0.32 U	0.43 U	NA	3.3	NA	2.7	29	13.7	0.050 U	0.1	0.050 U	0.020 U	12.4	18
	F72632-16	04/01/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	4790	3.6 I	75	0.32 U	0.43 U	NA	NA	NA	2.3	8.9	21.9	0.26	0.1	0.050 U	0.27	30.3	25.3
	F77624-5	10/28/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	3970	3.5 I	84	0.32 U	0.43 U	NA	0.39	NA	NA	15.7	14.5	0.21	0.050 U	0.050 U	0.071 I	13.9	22.7
	F81361-2	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1960	2.8 I	82	0.025 U	0.024 J	81	3.4	18	NA	23.1	11.5	0.050 U	0.094 I	0.050 U	0.63	11.2	14
OLD-OU2-29B	F60562-10	10/03/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	3470	11.2 I	311	0.32 U	0.43 U	NA	2.7	NA	1.8	9.3	0.050 U	0.17	10	0.050 U	13.9	NA	18.1
	F64318-13	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	2290	6.9 I	475	0.32 U	0.43 U	NA	0.13	NA	0.73	20.3	15.6	0.085 I	0.050 U	0.050 U	5.6	1.6 I	4.7
	F68838-3	10/16/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	3470	13	376	0.32 U	0.43 U	NA	2.1	NA	26	22.4	12.5	0.27	0.050 U	0.050 U	4.6	1.0 U	7
	F72632-15	04/01/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	2120	5.6 I	385	0.32 U	0.43 U	NA	NA	NA	3.2	23.2	16.9	0.17	0.050 U	0.050 U	1.4	1.5 I	5.1
	F77624-6	10/28/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1890	8.2 I	634	0.32 U	0.43 U	NA	0.32	NA	NA	18.6	16	0.3	0.050 U	0.050 U	2.3	1.3 I	5.7
	F81361-4	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	2260	10.7 I	800	0.23	0.03	95	1.8	14	NA	21.3	17.1	0.3	0.050 U	0.050 U	1.3	1.0 U	10.4
OLD-OU2-30A	F60562-11	10/03/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	11400	50.8	722	0.32 U	0.43 U	NA	0.020 U	NA	3.3	52.3	0.050 U	0.67	9.4	0.050 U	59.3		6.5
	F64318-14	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	24200	47.7	105	0.32 U	0.43 U	NA	NA	NA	NA	48.3	19.3	0.58	0.050 U	0.050 U	3.1 I	1.6 I	32
	F68882-4	10/19/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	6860	19.6	1240	0.32 U	0.43 U	NA	NA	NA	2.6	52.3	6.8	0.35	0.13	0.050 U	0.020 U	1.0 U	40
	F72652-3	04/02/2010	0.35 I	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	38500	171	4050	0.32 U	0.43 U	NA	NA	NA	9.8	89.4	8.9	4.1	0.050 U	0.050 U	0.078 I	1.2 I	37.1
	F77624-7	10/28/2010	0.26 I	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	16600	86.1	NA	NA	NA	NA	0.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81361-7	04/06/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	9240	26.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-30B	F60562-12	10/03/2008	0.45 I	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	21300	121	1660	0.32 U	0.43 U	NA	0.21	NA	1.5	47.9	0.050 U	2.1	8.6	0.050 U	163	NA	30.2
	F64318-15	03/31/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	31100	134	3680	0.32 U	0.43 U	NA	4.3	NA	1.1	241	63.5	2.8	0.050 U	0.050 U	0.020 U	3.5	43.9
	F68882-5	10/19/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	30700	138	1730	0.32 U	0.43 U	NA	NA	NA	1.8	236	40.3	2.2	0.12	0.050 U	0.046	1.7	40.5
	F72702-5	04/05/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	13100	72.8	1360	0.32 U	0.43 U	NA	NA	NA	6.6	167	19.9	1.3	0.050 U	0.050 U	0.020 U	4.3	30.3
	F77624-8	10/28/2010	0.39 I	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	24100	106	NA	NA	NA	NA	0.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81361-8	04/06/2011	0.36 I	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	22300	82.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-31A	F60562-7	10/03/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	228 I	2.5 I	8.07	0.32 U	0.43 U	NA	0.020 U	NA	0.98	6.1	0.050 U	0.050 U	11.2	0.1	19.7		5.9
	F64242-14	03/27/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	382	3.7 I	5.97	0.32 U	0.43 U	NA	5	NA	1	2.5 U	4.5	0.050 U	0.1	0.050 U	0.046 I	4.9	3
	F68804-5	10/14/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	580	2.8	8.72	0.32 U	0.43 U	NA	7.3	NA	2.1	2.5 U	4.3	0.050 U	0.050 U	0.050 U	0.029	4.1	NA
	F72652-5	04/02/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	302	6.7 I	0.25 I	0.32 U	0.43 U	NA	NA	NA	5.6	2.8 I	4.6	0.050 U	0.080 I	0.050 U	0.15	4.6	6.9
	F77795-6	11/05/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1030	6.7 I	44	0.32 U	0.43 U	NA	0.31	NA	NA	2.5 U	2.4	0.050 U	0.050 U	0.050 U	0.030 I	5.6	10.6
	F81494-1	04/08/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	105 I	5.6 I	30	0.025 U	0.031	71	2.7	17	NA	2.5 U	3.7	0.050 U	NA	NA	NA	5.2	6.1
OLD-OU2-31B	F60562-8	10/03/2008	20.6	5.9		1.0 U	4.7	3.4	6.4	2030	7.2 I	1190	0.60 I	0.45 I	NA	1.1	NA	1.5	12.4	0.050 U	0.050 I	29.4	0.050 U	9.2	NA	19.9
	F64242-15	03/27/2009	27.3	2.7	0.20 U	1.0 U	2.6	1.4	4.2	1830	6.5 I	2590	1.1	0.59	NA	3.7	NA	1.2	3.3 I	22.7	0.050 U	0.1	0.050 U	2.6	11.8	9.7
	F68804-4	10/14/2009	33.5	2.1	0.36	1.0 U	3.1	1.1	4.4	1720	6.2	1910	1.5	0.43 U	NA	3.3	NA	2.6	10	25.3	0.050U	0.050 U	0.050 U	1.4	8.2	NA
	F72652-4	04/02/2010	27.6	1.6	0.24 I	2.0 U	2.4	1	3.3	1690	6.3 I	1770	1.2	0.43 U	NA	NA	NA	3.6	3.8 I	26.8	0.050 U	0.050 U	0.050 U	1.2	11.8	10.4
	F77795-7	11/05/2010	29	1.5	0.54 I	2.0 U	2.8	0.60 I	2.1	1820	6.6 I	1730	1	2.1	NA	0.56	NA	NA	8.4	26.7	0.050 U	0.050 U	0.050 U	0.2	15.7	10
	F81494-3	04/08/2011	27.9	1.7	0.69 I	2.0 U	3.5	0.80 I	2.2	1690	6.6 I	2300	1.3	0.29	410	1.3	9.9	NA	5	25.1	0.050 U	NA	NA	NA	17.4	24.2
OLD-OU2-32A	F60499-1	10/01/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	105 I	1.0 U	1.7	0.32 U	0.43 U	NA	4	NA	2.2	10.9	5.1	0.050 U	0.14	0.050 U	0.040 U	8.7	22.3
	F64242-10	03/26/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	289 I	2.5 I	214	0.32 U	0.43 U	NA	7.8	NA	0.8	3.4 I	5	0.050 U	0.12	0.050 U	0.020 U	7.1	18.8
	F68804-2	10/14/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	296	1.2	77	0.32 U	0.43 U	NA	3.4	NA	2.3	2.5 U	4.3	0.050 U	0.050 U	0.050 U	0.020 U	4	NA
	F72652-6	04/02/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	248 I	1.0 I	0.25 I	0.32 U	0.43 U	NA	NA	NA	6.3	3.3 I	3.1	0.050 U	0.11	0.050 U	0.58	3	18
	F77934-3	11/08/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	674	1.9 I	NA	NA	NA	NA	1.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-7	04/01/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	66.2 I	2.1 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix A - Operable Unit 2 Historical Laboratory Analytical Results (2008-2011)

Appendix A Operable Unit 2 Analytical Results 10-2008 to 03-2011		Chemical Name	Benzene	cis-1,2-Dichloroethylene	Isopropylbenzene	Methylene chloride	Tetrachloroethylene	Trichloroethylene	Vinyl chloride	Iron	Manganese	Methane	Ethane	Ethene	Carbon Dioxide	Oxygen	Nitrogen	Hydrogen	Alkalinity, Total as CaCO	Chloride	Nitrogen, Ammonia	Nitrogen, Nitrate	Nitrogen, Nitrite	Orthophosphate	Sulfate	Total Organic Carbon
		CAS-RN	71-43-2	156-59-2	98-82-8	75-09-2	127-18-4	79-01-6	75-01-4	7439-89-6	7439-96-5	74-82-8	74-84-0	74-85-1	124-38-9	7782-44-7	17778-88-0	1333-74-0	E1640192	16887-00-6	E966655	14797-55-8	14797-65-0	14265-44-2	14808-79-8	E701250
		Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		GCTL	1	70	0.8	5	3	3	1	300	50	-	-	-	-	-	-	-	-	250	2.8	10	1	-	250	-
		NADSC	10	700	8	500	300	30	10	3000	500	-	-	-	-	-	-	-	-	2500	28	1000	100	-	25000	-
OLD-OU2-32B	F64242-11	03/26/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	921	7.2 I	339	0.32 U	0.43 U	NA	2.7	NA	3	10.3	9.3	0.050 U	0.11	0.050 U	3.3	1.5 I	4.7
	F68804-1	10/14/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	973	7.5	174	0.32 U	0.43 U	NA	2.9	NA	2.8	15.1	6.6	0.050U	0.050 U	0.050 U	0.23	3.2	NA
	F72702-7	04/05/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	1120	9.1 I	191	3.12	3.67	NA	NA	NA	8.3	5.6	5.8	0.050 U	0.060 I	0.050 U	2.3	14.7	4.8
	F77934-4	11/08/2010	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1300	10.3 I	NA	NA	NA	NA	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-8	04/01/2011	0.20 U	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1240	10.4 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-33A	F60668-2	10/07/2008	0.40 U	0.20 U	NA	1.0 U	0.22 U	0.32 U	0.30 U	1100	6.9 I	2.58	0.32 U	0.43 U	NA	4.4	NA	1.1	7.5	0.050 U	0.050 U	14.1	2.1	2.5 U	NA	11.7
	F64242-13	03/27/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.30 U	2160	10.0 I	560	0.32 U	0.43 U	NA	0.13	NA	0.73	2.5 U	16.6	0.050 U	0.050 U	0.050 U	0.020 U	7.5	9
	F68882-7	10/19/2009	0.40 U	0.41	0.20 U	1.0 U	0.22 U	0.43	0.30 U	926	3.7	127	0.32 U	0.43 U	NA	NA	NA	11	2.5 U	6.8	0.050 U	0.11	0.050 U	0.020 U	8.3	8.7
	F72632-1	04/01/2010	0.21 U	0.32 U	0.20 U	2.0 U	0.44 U	0.24 U	0.28 U	226 I	3.5 I	0.47 I	0.32 U	0.43 U	NA	NA	NA	5.5	2.5 U	6.3	0.050 U	4.3	0.050 U	0.038 I	12.3	6.5
	F77795-11	11/03/2010	0.48 I	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1310	9.6 I	NA	NA	NA	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-3	04/01/2011	0.54 I	0.26 U	0.20 U	2.0 U	0.25 U	0.26 U	0.22 U	1800	9.2 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-33B	F60668-1	10/07/2008	0.40 U	1.8	NA	1.0 U	0.54 I	10.8	0.30 U	1850	8.7 I	166	0.32 U	0.43 U	NA	2.3	NA	1.1	10.7	0.050 U	0.050 U	32.6	0.050 U	2.9 I	NA	16.1
	F64242-12	03/27/2009	0.40 U	1.1	0.20 U	1.0 U	0.69	16.5	0.30 U	1810	12.1 I	314	0.32 U	0.43 U	NA	3.8	NA	1.1	2.5 I	13.4	0.051 I	0.050 U	0.050 U	0.66	22.5	5.5
	F68882-8	10/19/2009	0.40 U	0.99	0.20 U	1.0 U	0.37	7.6	0.37	1770	9	110	0.32 U	0.43 U	NA	NA	NA	16	7.2	12.3	0.1	0.050 U	0.050 U	0.22	27.6	6.2
	F72632-2	04/01/2010	0.21 U	0.49 I	0.20 U	2.0 U	0.50 I	8.9	0.28 U	1660	17.5	72.6	0.32 U	0.43 U	NA	NA	NA	3.9	5	12	0.15	0.050 U	0.050 U	0.34	29.9	5.8
	F77795-12	11/03/2010	0.20 U	1.2	0.20 U	2.0 U	0.43 I	8.3	0.22 U	1840	12.3 I	NA	NA	NA	NA	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-5	04/01/2011	0.20 U	0.38 I	0.20 U	2.0 U	0.59 I	12.3	0.22 U	1460	9.0 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-37B	F60562-13	10/03/2008	1.2	1.3	NA	1.0 U	0.22 U	0.32 U	1.5	NA	NA	2120	0.36 I	0.51 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F64318-1	03/30/2009	1.2	1.8	0.20 U	1.0 U	0.22 U	0.32 U	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F68838-1	10/16/2009	0.99	1	0.20 U	1.0 U	0.22 U	0.32 U	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72702-6	04/05/2010	1.2	1.4	0.20 U	2.0 U	0.44 U	0.24 U	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77934-6	11/08/2010	0.76 I	0.78 I	0.20 U	2.0 U	0.25 U	0.26 U	0.59 I	NA	NA	NA	NA	NA	NA	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81309-6	04/01/2011	1.5	1.2	0.20 U	2.0 U	0.25 U	0.26 U	0.90 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-41B	F68882-11	10/19/2009	2.1	2.1	0.20 U	1.0 U	0.27	42.7	1.7	1010	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-3	04/01/2010	1.7	2.3	0.20 U	2.0 U	0.66 I	56	1	604	7.9 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77795-3	11/04/2010	2	2.4	0.20 U	2.0 U	0.31 I	34.3	1.2	NA	NA	1620	0.32 U	1.1	NA	0.48	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	6.8
	F81308-5	04/04/2011	1.8	2.5	0.20 U	2.0 U	0.41 I	47.6	0.99 I	NA	NA	500	0.01 J	0.25	130	4.7	12	NA	NA	NA	NA	NA	NA	NA	8.5	5.3
OLD-OU2-42B	F68882-2	10/19/2009	20 U	413	10 U	50 U	11 U	3780	54.9	879	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-4	04/01/2010	11 U	440	10 U	100 U	22 U	3620	32.0 I	737	6.3 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77711-1	11/01/2010	10 U	599	10 U	100 U	13 U	3020	30.6 I	NA	NA	1440	0.32 U	3.89	NA	0.4	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	7.4
	F81422-1	04/07/2011	4.0 U	454	4.0 U	40 U	5.0 U	1620	9.8 I	NA	NA	1100	0.17	2.7	160	2	14	NA	NA	NA	NA	NA	NA	NA	2.1	6.4
OLD-OU2-43B	F68882-3	10/19/2009	20 U	123	10 U	50 U	35.4	4470	49	982	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-5	04/01/2010	11 U	143	10 U	100 U	46.0 I	5,300	33.5 I	819	6.6 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77711-2	11/01/2010	20 U	236	20 U	232 I	54.5 I	7540	22 U	NA	NA	794	0.49 I	6.79	NA	0.4	NA	NA	NA	NA	NA	NA	NA	NA	22.7	7.7
	F81422-2	04/07/2011	20 U	168	20 U	200 U	47.7 I	5370	22 U	NA	NA	840	0.43	6.3	180	1.7	14	NA	NA	NA	NA	NA	NA	NA	20.5	24.8
OLD-OU2-44B	F77795-2	11/04/2010	2.0 U	142	2.0 U	23.4 IV	13	1590	12.3	NA	NA	1660	0.32 U	2.2	NA	0.51	NA	NA	NA	NA	NA	NA	NA	NA	12.6	6.9
	F81308-2	04/04/2011	4.0 U	1610	4.0 U	40 U	6.0 I	771	15.8 I	NA	NA	1600	0.018 J	0.72	97	3.9	9.5	NA	NA	NA	NA	NA	NA	NA	12.9	5.6
OLD-OU2-45B	F77711-3	11/01/2010	2.0 U	715	2.0 U	30.6 I	2.5 U	174	2.2 U	NA	NA	5670	0.45 I	3.17	NA	0.34	NA	NA	NA	NA	NA	NA	NA	NA	2.5	6.1
	F81308-3	04/04/2011	2.0 U	852	2.0 U	20 U	2.5 U	58.2	7.2 I	NA	NA	4500	0.044	0.98	220	3.1	8.9	NA	NA	NA	NA	NA	NA	NA	7.2	6.3
OLD-OU2-46B	F77795-14	11/03/2010	10 U	1650	10 U	102 IV	17.3 I	4250	64.9	NA	NA	1620	0.71 I	8.18	NA	0.38	NA	NA	NA	NA	NA	NA	NA	NA	7.9	11
	F81308-6	04/04/2011	10 U	1550	10 U	100 U	16.7 I	3840	31.8 I	NA	NA	1500	0.36	5	140	2	12	NA	NA	NA	NA	NA	NA	NA	10.5	25.8
OLD-OU2-47B	F77795-15	11/03/2010	10 U	141	10 U	20 U	37.0 I	4140	32.7 I	NA	NA	839	0.49 I	6.76	NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	27	7
	F81422-4	04/07/2011	10 U	179	10 U	100 U	33.3 I	3810	12.5 I	NA	NA	380	0.056	0.66	170	1.6	14	NA	NA	NA	NA	NA	NA	NA	19.9	28.2
OLD-OU2-48B	F77795-1	11/04/2010	2.0 U	1730	2.0 U	113 IV	2.5 U	2.6 U	20.6	NA	NA	8460	0.32 U	3.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	22.5
	F81308-1	04/04/2011	4.0 U	1810	4.0 U	40 U	5.0 U	5.2 U	17.8 I	NA	NA	15000	0.12	2.3	290	1.4	6.4	NA	NA	NA	NA	NA	NA	NA	6.9	16.8
OLD-OU2-49B	F77795-17	11/03/2010	0.20 U	1.8	0.20 U	2.0 U	1.5	35.6	0.53 I	NA	NA	141	0.32 U	0.43 U	NA	0.52	NA	NA	NA	NA	NA	NA	NA	NA	18.8	8.3
	F81422-7	04/07/2011	0.21 I	10.6	0.20 U	2.0 U	5.5	178	1.4	NA	NA	320	0.14	1.9	110	3.6	14	NA	NA	NA	NA	NA	NA	NA	21.4	25
OLD-OU2-50B	F68882-13	10/19/2009	2.0 U	632	1.0 U	12.4	1.1 U	2.3	8.5	3350	20.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-6	04/01/2010	2.1 I	375	1.0 U	10 U	2.2 U	1.2 U	4.5 I	1310	6.1 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77795-18	11/03/2010	1.0 U	293	1.0 U	10 U	1.3 U	2.8 I	5.7	NA	NA	10100	0.32 U	2	NA	1.21	NA	NA	NA	NA	NA	NA	NA	NA	6.9	8.4
	F81308-4	04/04/2011	2.0 U	648	2.0 U	20 U	2.5 U	4.8 I	6.5 I	NA	NA	12000	0.12	2.2	230	1.7	9.5	NA	NA	NA	NA	NA	NA	NA	19.2	24.8
OLD-OU2-51B	F68838-22	10/16/2009	2.0 U	257	1.0 U	7.8	1.1 U	1.6 U	4	2140	10.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-13	04/01/2010	1.1 U	218	1.0 U	10 U	2.2 U	1.2 U	3.5 I	1270	5.9 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77795-10	11/03/2010	1.0 U	277	1.0 U	10 U	1.3 U	1.3 U	7.9	NA	NA	11900	0.32 U	2.2	NA	0.12	NA	NA	NA	NA	NA	NA	NA	NA	2.5	6.6
	F81422-10	04/07/2011	0.40 U	168	0.40 U	4.0 U	0.50 U	0.56 I	7	NA	NA	17000	0.14	3.4	290	1.1	5.3	NA	NA	NA	NA	NA	NA	NA	1.3 I	23.6

Appendix A - Operable Unit 2 Historical Laboratory Analytical Results (2008-2011)

Appendix A Operable Unit 2 Analytical Results 10-2008 to 03-2011		Chemical Name	Benzene	cis-1,2-Dichloroethylene	Isopropylbenzene	Methylene chloride	Tetrachloroethylene	Trichloroethylene	Vinyl chloride	Iron	Manganese	Methane	Ethane	Ethene	Carbon Dioxide	Oxygen	Nitrogen	Hydrogen	Alkalinity, Total as CaCO	Chloride	Nitrogen, Ammonia	Nitrogen, Nitrate	Nitrogen, Nitrite	Orthophosphate	Sulfate	Total Organic Carbon
		CAS-RN	71-43-2	156-59-2	98-82-8	75-09-2	127-18-4	79-01-6	75-01-4	7439-89-6	7439-96-5	74-82-8	74-84-0	74-85-1	124-38-9	7782-44-7	17778-88-0	1333-74-0	E1640192	16887-00-6	E966655	14797-55-8	14797-65-0	14265-44-2	14808-79-8	E701250
		Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	nM	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		GCTL	1	70	0.8	5	3	3	1	300	50	-	-	-	-	-	-	-	-	250	2.8	10	1	-	250	-
		NADSC	10	700	8	500	300	30	10	3000	500	-	-	-	-	-	-	-	-	2500	28	1000	100	-	25000	-
OLD-OU2-53B	F68882-12	10/19/2009	0.80 U	166	0.40 U	2.0 U	2.4	70.2	2.3	694	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-7	04/01/2010	0.42 U	388	0.40 U	4.0 U	3	51.2	4.2	798	5.9 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77795-8	11/05/2010	2.0 U	797	2.0 U	20 U	10.2	371	60.8	NA	NA	4610	0.32 U	11.6	NA	0.43	NA	NA	NA	NA	NA	NA	NA	NA	8.2	7.7
	F81308-7	04/04/2011	2.0 U	614	2.0 U	20 U	2.5 U	6.0 I	293	NA	NA	4300	0.025 J	12	170	2.8	8.2	NA	NA	NA	NA	NA	NA	NA	7.7	7.2
OLD-OU2-DP01A	F60665-2	10/06/2008	1.8	1.2	NA	1.0 U	0.22 U	0.32 U	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F64242-3	03/26/2009	0.40 U	0.20 U	0.20 U	1.0 U	0.22 U	0.32 U	0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F68838-20	10/16/2009	1.5	1.1	0.20 U	1.0 U	0.22 U	0.32 U	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F72632-12	04/01/2010	1.1	1.1	0.20 U	2.0 U	0.44 U	1.9	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F77795-13	11/03/2010	0.69 I	0.60 I	0.20 U	2.0 U	0.25 U	0.33 I	1	NA	NA	NA	NA	NA	NA	4.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F81422-8	04/07/2011	3.1	2	0.20 U	2.0 U	0.25 U	0.26 U	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OLD-OU2-DP02A	F60665-1	10/06/2008	0.40 U	21.6	NA	1.0 U	0.35 I	4.4	0.42 I	3130	3.1 I	38.5	0.32 U	0.43 U	NA	5.3	NA	1.3	11.7	0.050 U	0.050 U	26	0.050 U	2.5 U	NA	42.4
	F64242-4	03/26/2009	0.40 U	218	0.20 U	1.0 U	0.22 U	35.1	3.7	1950	1.9 I	429	0.32 U	0.43 U	NA	8.1	NA	1.3	43.9	23.5	0.050 U	0.050 U	0.050 U	0.038 I	14.7	4.7
	F68882-9	10/19/2009	0.40 U	135	0.20 U	1.0 U	0.22 U	15.1	2.2	1230	1.4	173	0.32 U	0.43 U	NA	NA	NA	7.2	42.1	21.8	0.068	0.050 U	0.050 U	0.022	13.5	5.9
	F72632-14	04/01/2010	1.1 U	475	1.0 U	10 U	2.2 U	5.2	4.3 I	1990	1.2 I	3780	0.32 U	0.43 U	NA	NA	NA	4.4	14.1	15.6	0.050 U	0.050 U	0.050 U	0.13	2.6	10.3
	F77795-16	11/03/2010	1.0 U	301	1.0 U	10 U	1.3 U	1.9 I	8.7	1130	1.0 I	1780	0.32 U	0.43 U	NA	2.99	NA	NA	2.7 I	29.5	0.050 U	0.089 I	0.050 U	0.22	10.9	7
	F81422-11	04/07/2011	1.0 U	242	1.0 U	10 U	1.3 U	20.5	2.7 I	523	1.0 U	2100	0.025	0.14	150	2	15	NA	6.7	18.8	0.050 U	0.096 I	0.050 U	0.058 I	4.9	12.1

Notes:
ug/L - micrograms per liter
U - indicates result less than method detection limit
I - indicates result greater than or equal to method detection limit but less than practical quantitation limit
NA - not analyzed
GCTL- groundwater cleanup target level
NADC - natural attenuation default concentration

APPENDIX B
Monitor Well Purge Forms

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-02A	SAMPLE ID: AA65AC9D4A3745AE8A8DE73F1FDF28BB	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 7.4-17.4	STATIC DEPTH TO WATER (feet): 10.85	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (20.35 feet – 10.85 feet) X 0.16 gallons/foot = 1.55 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 21.35 feet)+ 0.15 gallon = 0.20 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.35	PURGING INITIATED AT: 11:13	PURGING ENDED AT: 11:30	TOTAL VOLUME PURGED (gallons): 1.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:17		0.30	0.070	11.00	5.68	21.61	371.00	0.81	45.10	clear	slight HC
11:20	0.30	0.60	0.079	10.88	5.72	21.51	375.00	0.77	9.50	clear	slight HC
11:23	0.30	0.90	0.118	11.00	5.72	21.55	380.00	0.71	9.30	clear	slight HC
11:26	0.30	1.20	0.107	11.00	5.76	21.58	395.00	0.67	11.90	clear	slight HC
11:29	0.30	1.50	0.095	10.98	5.79	21.58	399.00	0.65	14.40	clear	slight HC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .63	TEMP.(°C): 21.58	DO: .54	CO2: 226	DO High Range:	DO Low Range:
SEC(uS/cm) 394	pH: 5.79	Alkalinity:	Ferrous Iron: 2.9	CO2 High Range:	CO2 Low Range:
ORP(mV): 61	TURB(NTU): 18.3	H2S: 0	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:30	SAMPLING ENDED AT: 12:13
PUMP OR TUBING DEPTH IN WELL (feet): 17.35	SAMPLE PUMP FLOW RATE (mL per minute): 400.81	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N FILTER SIZE: NA
Filtration Equipment Type:
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-02A	10	AG;CG;PE	0 ml;125 m	4;HCL;HNO3	40 ml;125 ml	5.79	Ammonium	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-02B	SAMPLE ID: C7B0EE6CFDC34596B531AA2D19F89453	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 27.1-32.1	STATIC DEPTH TO WATER (feet): 10.14	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (32.50 feet – 10.14 feet) X 0.16 gallons/foot = 3.65 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 33.50 feet)+ 0.15 gallon = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.50	PURGING INITIATED AT: 12:18	PURGING ENDED AT: 12:31	TOTAL VOLUME PURGED (gallons): 1.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:21		0.30	0.093	10.26	5.25	22.46	258.00	0.77	32.50	turbid	none
12:25	0.30	0.60	0.082	10.27	5.27	22.60	260.00	0.66	19.70	clear	none
12:29	0.30	0.90	0.082	10.28	5.30	22.67	257.00	0.57	9.00	clear	none
12:31	0.30	1.20	0.092	10.28	5.27	22.70	256.00	0.46	6.80	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .43	TEMP.(°C): 22.66	DO: 1.18	CO2: 140	DO High Range:	DO Low Range:
SEC(uS/cm) 256	pH: 5.27	Alkalinity:	Ferrous Iron: 3	CO2 High Range:	CO2 Low Range:
ORP(mV): 101	TURB(NTU): 6.6	H2S: .5	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:31	SAMPLING ENDED AT: 13:08
PUMP OR TUBING DEPTH IN WELL (feet): 29.50	SAMPLE PUMP FLOW RATE (mL per minute): 436.78	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-02B	10	AG;CG;PE	ml;500 ml;	4;HCL;HNO3	40 ml;500 ml;1 L	5.27	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-03A	SAMPLE ID: D6E37D737A4D48ABBF8647661E9ADB2D	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 7.5-17.5	STATIC DEPTH TO WATER (feet): 7.84	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (20.50 feet – 7.84 feet) X 0.16 gallons/foot = 2.07 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 21.50 feet)+ 0.15 gallon = 0.20 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.50	PURGING INITIATED AT: 13:43	PURGING ENDED AT: 13:53	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:46		0.30	0.082	8.35	5.48	21.42	592.00	0.52	4.20	clear	none
13:49	0.30	0.60	0.095	8.45	5.49	21.42	568.00	0.42	3.00	clear	none
13:52	0.30	0.90	0.093	8.60	5.53	21.44	567.00	0.48	5.80	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .51	TEMP.(°C): 21.45	DO: .38	CO2: 218	DO High Range:	DO Low Range:
SEC(uS/cm) 553	pH: 5.49	Alkalinity:	Ferrous Iron: 4	CO2 High Range:	CO2 Low Range:
ORP(mV): 156	TURB(NTU): 5.5	H2S: 0	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:53	SAMPLING ENDED AT: 14:17
PUMP OR TUBING DEPTH IN WELL (feet): 17.50	SAMPLE PUMP FLOW RATE (mL per minute): 454.25	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-03A	10	AG;CG;PE	ml;500 ml;	SO4;HCL;HN	40 ml;500 ml;1 L		Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-03B	SAMPLE ID: 0FF8A7BCF5994234994610FE6D7EE0C4	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 27.4-32.4	STATIC DEPTH TO WATER (feet): 7.86	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.50 feet – 7.86 feet) X 0.16 gallons/foot = 4.51 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.50 feet)+ 0.15 gallon = 0.24 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.50	PURGING INITIATED AT: 14:53	PURGING ENDED AT: 15:16	TOTAL VOLUME PURGED (gallons): 2.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:57		0.30	0.076	8.15	5.47	22.27	351.00	0.41	96.60	milky	sulfuric
15:00	0.30	0.60	0.083	8.12	5.48	22.24	351.00	0.31	67.40	milky	sulfuric
15:03	0.30	0.90	0.094	8.11	5.48	22.29	349.00	0.27	52.20	milky	sulfuric
15:06	0.30	1.20	0.091	8.14	5.50	22.29	353.00	0.25	40.20	milky	sulfuric
15:09	0.30	1.50	0.095	8.10	5.48	22.32	348.00	0.24	37.20	milky	sulfuric
15:12	0.30	1.80	0.097	8.11	5.47	22.28	347.00	0.23	33.10	milky	sulfuric
15:15	0.30	2.10	0.098	8.09	5.48	22.29	347.00	0.23	33.60	milky	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .22	TEMP.(°C): 22.33	DO: .63	CO2: 178	DO High Range:	DO Low Range:
SEC(uS/cm) 347	pH: 5.47	Alkalinity:	Ferrous Iron: 3	CO2 High Range:	CO2 Low Range:
ORP(mV): 90	TURB(NTU): 33.3	H2S: 0	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:16	SAMPLING ENDED AT: 15:38
PUMP OR TUBING DEPTH IN WELL (feet): 32.50	SAMPLE PUMP FLOW RATE (mL per minute): 395.00	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☑ Y ☐ N
Filtration Equipment Type:
FILTER SIZE: 0.45 um
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-03B	10	AG;CG;PE	ml;500 ml;	SO4;HCL;HN	40 ml;500 ml;1 L		Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-12B	SAMPLE ID: 390A8B20C06D413490EECD2AE152BD6F	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 29.8-34.8	STATIC DEPTH TO WATER (feet): 7.90	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (34.92 feet – 7.90 feet) X 0.16 gallons/foot = 4.41 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.15 gallon = 0.24 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 12:47	PURGING ENDED AT: 13:03	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:50		0.30	0.095	7.90	4.54	23.20	137.70	2.07	3.10	clear	none
12:53	0.30	0.60	0.097	7.90	4.49	23.16	137.10	1.53	6.80	clear	none
12:56	0.30	0.90	0.097	7.90	4.30	23.12	137.00	1.23	1.70	clear	none
12:59	0.30	1.20	0.102	7.90	4.26	23.16	136.90	1.21	1.80	clear	none
13:02	0.30	1.50	0.099	7.90	4.27	23.30	137.10	1.02	2.10	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .95	TEMP.(°C): 23.32	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 137	pH: 4.22	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 28	TURB(NTU): 1.7	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:03	SAMPLING ENDED AT: 13:11
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N FILTER SIZE: NA
Filtration Equipment Type:
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-12B	3	CG	40 ml	HCL	40 ml	4.22	Specific VOCs	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-18B	SAMPLE ID: 08AB26E34A2949518B2B065EA4F5B62F	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 28.6-33.6	STATIC DEPTH TO WATER (feet): 7.90	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (33.63 feet – 7.90 feet) X 0.16 gallons/foot = 4.20 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 34.63 feet)+ 0.15 gallon = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.63	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.63	PURGING INITIATED AT: 14:37	PURGING ENDED AT: 14:53	TOTAL VOLUME PURGED (gallons): 1.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:40		0.30	0.087	9.47	5.07	23.99	146.00	0.80	8.20	clear	sulfuric
14:43	0.30	0.60	0.090	9.88	5.07	23.82	145.00	0.66	8.00	clear	sulfuric
14:48	0.60	1.20	0.101	9.97	5.10	24.42	142.00	0.38	15.10	clear	sulfuric
14:51	0.30	1.50	0.106	10.00	5.10	24.65	141.00	0.31	13.60	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .29	TEMP.(°C): 24.46	DO: .09	CO2: 136	DO High Range:	DO Low Range:
SEC(uS/cm) 139	pH: 5.1	Alkalinity:	Ferrous Iron: 1	CO2 High Range:	CO2 Low Range:
ORP(mV): 24	TURB(NTU): 15.8	H2S: 2	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 14:53	SAMPLING ENDED AT: 15:11
PUMP OR TUBING DEPTH IN WELL (feet): 30.63	SAMPLE PUMP FLOW RATE (mL per minute): 425.86	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-18B	8	AG;CG;PE	ml;500 ml;	4;HCL;HNO3	40 ml;500 ml;1 L		Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-27A	SAMPLE ID: 44AAFD0C0DB54534A070C4B0F4CAD6FA	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 6.01-16	STATIC DEPTH TO WATER (feet): 13.33	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (19.43 feet – 13.33 feet) X 0.16 gallons/foot = 1.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 20.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16.00	PURGING INITIATED AT: 11:42	PURGING ENDED AT: 12:08	TOTAL VOLUME PURGED (gallons): 2.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:55		1.00	0.078	13.52	5.23	22.47	195.10	1.72	2.30	clear	none
12:04	0.90	1.90	0.099	13.50	5.22	22.49	193.30	1.64	2.80	clear	none
12:07	0.30	2.20	0.089	13.50	5.23	22.46	193.50	1.46	1.60	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.31	TEMP.(°C): 22.44	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 193.4	pH: 5.23	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): -106	TURB(NTU): 1.9	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:08	SAMPLING ENDED AT: 12:29
PUMP OR TUBING DEPTH IN WELL (feet): 16.00	SAMPLE PUMP FLOW RATE (mL per minute): 334.86	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-27A	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	5.23	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-27B	SAMPLE ID: 6878881147B544B4A685D831AC0502EC	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 27-32	STATIC DEPTH TO WATER (feet): 13.38	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.27 feet – 13.38 feet) X 0.16 gallons/foot = 3.57 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.15 gallon = 0.24 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 12:37	PURGING ENDED AT: 12:48	TOTAL VOLUME PURGED (gallons): 1.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:41		0.30	0.089	13.70	4.83	23.29	207.50	1.69	0.80	clear	none
12:43	0.30	0.60	0.100	13.70	4.82	23.34	207.60	1.29	0.90	clear	none
12:47	0.30	0.90	0.092	13.70	4.79	23.38	207.90	1.12	1.50	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.09	TEMP.(°C): 23.37	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 208	pH: 4.78	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): -96	TURB(NTU): 1.1	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:48	SAMPLING ENDED AT: 13:02
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 344.13	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N
Filtration Equipment Type:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-27B	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	4.78	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-28B	SAMPLE ID: 5CB60E1025F24F4F98A9F033494651B2	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 27-32	STATIC DEPTH TO WATER (feet): 13.30	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.29 feet – 13.30 feet) X 0.16 gallons/foot = 3.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.15 gallon = 0.24 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 14:07	PURGING ENDED AT: 14:31	TOTAL VOLUME PURGED (gallons): 2.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:12		0.50	0.099	13.30	3.60	23.83	130.30	2.44	3.40	clear	none
14:15	0.30	0.80	0.094	13.53	3.61	23.80	131.10	2.08	2.80	clear	none
14:18	0.30	1.10	0.096	13.55	3.62	23.90	130.30	1.92	2.70	clear	none
14:21	0.30	1.40	0.096	13.53	3.67	23.93	128.50	1.77	1.90	clear	none
14:24	0.30	1.70	0.098	13.53	3.64	23.94	127.70	1.50	1.70	clear	none
14:27	0.30	2.00	0.100	13.53	3.66	24.02	127.10	1.47	2.10	clear	none
14:30	0.30	2.30	0.098	13.53	3.70	24.06	125.70	1.18	1.70	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.18	TEMP.(°C): 24.05	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 124.7	pH: 3.73	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): -66	TURB(NTU): 2.6	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 14:31	SAMPLING ENDED AT: 14:41
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N | FIELD-FILTERED: ☐ Y ☑ N | FILTER SIZE: NA | DUPLICATE: ☐ Y ☑ N
Filtration Equipment Type:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-28B	3	CG	40 ml	HCL	40 ml	3.73	VOCs	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-29A	SAMPLE ID: B72E72F0ED6B434CA712D9B551DE3D62	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 5.01-15	STATIC DEPTH TO WATER (feet): 4.20	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.26 feet – 4.20 feet) X 0.04 gallons/foot = 0.41 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 15.00 feet)+ 0.15 gallon = 0.18 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.00	PURGING INITIATED AT: 11:21	PURGING ENDED AT: 11:52	TOTAL VOLUME PURGED (gallons): 3.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:24		0.30	0.092	4.30	4.73	22.46	110.70	2.58	625.30	milky	none
11:27	0.30	0.60	0.096	4.30	4.77	22.40	110.60	2.73	651.00	milky	none
11:30	0.30	0.90	0.101	4.30	4.76	22.46	113.40	2.34	575.30	milky	none
11:33	0.30	1.20	0.101	4.30	4.76	22.39	114.20	2.19	486.70	milky	none
11:36	0.30	1.50	0.098	4.30	4.74	22.25	114.90	2.16	444.70	milky	none
11:40	0.30	1.80	0.095	4.30	4.73	22.22	115.90	2.24	423.10	milky	none
11:43	0.30	2.10	0.095	4.30	4.74	22.23	117.00	2.41	388.70	milky	none
11:45	0.30	2.40	0.100	4.30	4.73	22.28	116.90	2.12	404.30	milky	none
11:48	0.30	2.70	0.099	4.30	4.75	22.27	117.50	2.23	371.50	milky	none
11:51	0.30	3.00	0.099	4.30	4.72	22.24	117.80	2.39	355.00	milky	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 2.43	TEMP.(°C): 22.25	DO: 2.27	CO2: 38	DO High Range:	DO Low Range:
SEC(uS/cm) 119.5	pH: 4.74	Alkalinity:	Ferrous Iron: .6	CO2 High Range:	CO2 Low Range:
ORP(mV): 229	TURB(NTU): 351.2	H2S: 0	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide: 0		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:52	SAMPLING ENDED AT: 12:22
PUMP OR TUBING DEPTH IN WELL (feet): 11.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-29A	10	AG;CG;PE	ml;500 ml;	ICL;HNO3;Ot	40 ml;500 ml;1 L	4.74	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-29B	SAMPLE ID: C380F8E9E27D4383A016ADA28A91FDD7	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 25-30	STATIC DEPTH TO WATER (feet): 5.55	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (28.95 feet – 5.55 feet) X 0.04 gallons/foot = 0.95 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 29.00 feet)+ 0.15 gallon = 0.22 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	PURGING INITIATED AT: 12:54	PURGING ENDED AT: 13:25	TOTAL VOLUME PURGED (gallons): 3.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:58		0.30	0.093	6.20	4.93	22.93	126.00	1.11	42.50	turbid	sulfuric
13:01	0.30	0.60	0.095	6.10	4.85	23.03	123.90	1.31	42.50	turbid	sulfuric
13:04	0.30	0.90	0.098	6.10	4.82	23.05	122.80	0.92	43.70	turbid	sulfuric
13:07	0.30	1.20	0.096	6.00	4.61	23.07	121.60	1.34	42.60	turbid	none
13:10	0.30	1.50	0.099	6.00	4.61	23.08	121.30	0.92	41.60	turbid	sulfuric
13:13	0.30	1.80	0.099	5.90	4.61	23.11	120.90	1.30	37.90	turbid	sulfuric
13:16	0.30	2.10	0.099	5.90	4.58	23.06	120.60	1.15	34.10	milky	sulfuric
13:19	0.30	2.40	0.098	5.90	4.65	23.01	120.40	1.48	29.80	milky	sulfuric
13:22	0.30	2.70	0.099	5.90	4.60	23.02	120.10	1.14	27.50	milky	sulfuric
13:25	0.30	3.00	0.099	5.90	4.57	23.06	120.00	1.33	25.20	milky	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.28	TEMP.(°C): 23.09	DO: .25	CO2: 22	DO High Range:	DO Low Range:
SEC(uS/cm) 119.9	pH: 4.58	Alkalinity:	Ferrous Iron: 3.2	CO2 High Range:	CO2 Low Range:
ORP(mV): -33	TURB(NTU): 25	H2S: .85	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide: .8		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:25	SAMPLING ENDED AT: 14:19
PUMP OR TUBING DEPTH IN WELL (feet): 25.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-29B	10	AG;CG;PE	ml;500 ml;	ICL;HNO3;Ot	40 ml;500 ml;1 L	4.58	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-30A	SAMPLE ID: D34426ADC7FC4A3A831223101BA6B316	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 5.01-15	STATIC DEPTH TO WATER (feet): 3.60	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.50 feet – 3.60 feet) X 0.04 gallons/foot = 0.44 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 15.00 feet)+ 0.15 gallon = 0.18 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.00	PURGING INITIATED AT: 14:56	PURGING ENDED AT: 15:12	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:59		0.30	0.104	4.80	4.71	22.37	87.91	1.98	297.60	dark orange	organic
15:02	0.30	0.60	0.099	5.00	4.54	22.23	85.29	1.57	197.80	dark orange	organic
15:05	0.30	0.90	0.099	5.00	4.36	22.17	84.98	1.31	178.20	dark orange	organic
15:08	0.30	1.20	0.102	5.40	4.39	22.11	84.41	1.36	171.70	dark orange	organic
15:11	0.30	1.50	0.102	5.75	4.25	22.09	85.16	0.97	175.20	dark orange	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .89	TEMP.(°C): 22.17	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 85.41	pH: 4.46	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): -28	TURB(NTU): 195.2	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:12	SAMPLING ENDED AT: 15:23
PUMP OR TUBING DEPTH IN WELL (feet): 11.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N FILTER SIZE: NA
Filtration Equipment Type:
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-30A	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	4.46	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-30B	SAMPLE ID: F37FCF27E735447C9BD80900FB4F7CE9	DATE: 04/06/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 25-30	STATIC DEPTH TO WATER (feet): 7.10	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (28.80 feet – 7.10 feet) X 0.04 gallons/foot = 0.89 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 29.00 feet)+ 0.15 gallon = 0.22 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	PURGING INITIATED AT: 15:29	PURGING ENDED AT: 15:41	TOTAL VOLUME PURGED (gallons): 1.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:32		0.30	0.115	7.10	5.61	23.34	551.40	1.95	13.80	yellow	slight HC
15:35	0.30	0.60	0.104	7.10	5.61	23.50	562.80	1.53	10.50	yellow	slight HC
15:38	0.30	0.90	0.102	7.10	5.66	23.55	566.00	1.05	7.50	yellow	slight HC
15:41	0.30	1.20	0.103	7.10	5.66	23.52	565.90	1.07	5.40	yellow	slight HC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.01	TEMP.(°C): 23.53	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 566.1	pH: 5.67	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 39	TURB(NTU): 5.1	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:41	SAMPLING ENDED AT: 15:53
PUMP OR TUBING DEPTH IN WELL (feet): 25.00	SAMPLE PUMP FLOW RATE (mL per minute): 410.09	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-30B	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	5.67	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-31A	SAMPLE ID: BED402FD36A849FF9F3F36BF4062244A	DATE: 04/08/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 5.01-15	STATIC DEPTH TO WATER (feet): 11.10	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (17.75 feet – 11.10 feet) X 0.04 gallons/foot = 0.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 18.75 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.75	PURGING INITIATED AT: 10:52	PURGING ENDED AT: 11:05	TOTAL VOLUME PURGED (gallons): 1.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:55		0.30	0.087	13.60	4.55	23.11	41.00	1.56	4.90	clear	none
10:58	0.30	0.60	0.095	13.00	4.56	23.97	42.00	1.29	4.20	clear	none
11:01	0.30	0.90	0.095	13.00	4.54	24.32	43.00	0.96	4.00	clear	none
11:04	0.30	1.20	0.098	13.00	4.58	24.33	43.00	0.96	4.50	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .97	TEMP.(°C): 24.27	DO: 1.78	CO2: 58	DO High Range:	DO Low Range:
SEC(uS/cm) 43	pH: 4.55	Alkalinity:	Ferrous Iron: 0	CO2 High Range:	CO2 Low Range:
ORP(mV): 292	TURB(NTU): 3.9	H2S: 0	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:23
PUMP OR TUBING DEPTH IN WELL (feet): 14.75	SAMPLE PUMP FLOW RATE (mL per minute): 436.78	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☑ Y ☐ N Filtration Equipment Type:	FILTER SIZE: 0.45 um	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-31A	10	AG;CG;PE	ml;500 ml;	4;HCL;HNO3	40 ml;500 ml;1 L		Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-31B	SAMPLE ID: 9CA5F841699A46FAA118D40CFACD9FDB	DATE: 04/08/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 25-30	STATIC DEPTH TO WATER (feet): 10.86	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (32.80 feet – 10.86 feet) X 0.04 gallons/foot = 0.90 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 34.00 feet)+ 0.15 gallon = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 12:04	PURGING ENDED AT: 12:14	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:07		0.30	0.107	11.10	4.55	23.89	180.00	0.78	1.60	clear	none
12:10	0.30	0.60	0.108	10.98	4.47	23.97	179.00	0.57	1.50	clear	none
12:13	0.30	0.90	0.102	10.95	4.49	23.99	179.00	0.48	2.20	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .46	TEMP.(°C): 24.03	DO: 0	CO2: 194	DO High Range:	DO Low Range:
SEC(uS/cm) 180	pH: 4.6	Alkalinity:	Ferrous Iron: 2	CO2 High Range:	CO2 Low Range:
ORP(mV): 89	TURB(NTU): 1.9	H2S: 1.50	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:14	SAMPLING ENDED AT: 12:37
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 454.25	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☑ Y ☐ N
Filtration Equipment Type:
FILTER SIZE: 0.45 um
DUPLICATE: ☑ Y ☐ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-31B	10	AG;CG;PE	ml;500 ml;	4;HCL;HNO3	40 ml;500 ml;1 L		Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-32A	SAMPLE ID: E99BBA1ED72D4955A787BF1746FC809D	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 5.01-15	STATIC DEPTH TO WATER (feet): 12.06	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (17.62 feet – 12.06 feet) X 0.04 gallons/foot = 0.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 18.60 feet)+ 0.15 gallon = 0.19 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.60	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.60	PURGING INITIATED AT: 15:09	PURGING ENDED AT: 15:57	TOTAL VOLUME PURGED (gallons): 2.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:21		1.00	0.082	14.28	4.63	22.31	51.00	2.13	37.90	turbid	none
15:24	0.30	1.30	0.085	14.45	4.63	22.37	52.00	2.02	36.50	turbid	none
15:28	0.30	1.60	0.085	14.66	4.64	22.84	34.00	1.68	34.00	turbid	none
15:31	0.30	1.90	0.099	14.74	4.64	22.50	57.00	1.67	36.40	turbid	none
15:34	0.30	2.20	0.087	14.75	4.64	22.72	54.00	3.21	30.30	turbid	none
15:37	0.30	2.50	0.088	14.75	4.64	22.88	56.00	4.26	27.20	turbid	none
15:56	0.20	2.70	0.058	14.50	4.64	22.73	57.00	3.15	31.60	turbid	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 2.27	TEMP.(°C): 23.05	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 58	pH: 4.65	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 360	TURB(NTU): 31.3	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:57	SAMPLING ENDED AT: 16:05
PUMP OR TUBING DEPTH IN WELL (feet): 14.60	SAMPLE PUMP FLOW RATE (mL per minute): 228.70	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N | FIELD-FILTERED: ☐ Y ☑ N | FILTER SIZE: NA | DUPLICATE: ☐ Y ☑ N
Filtration Equipment Type:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-32A	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	4.65	Fe/Mn	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-32B	SAMPLE ID: 84E8F03F65F4474DBCBE52D7C96450BC	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 25-30	STATIC DEPTH TO WATER (feet): 12.42	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (33.30 feet – 12.42 feet) X 0.04 gallons/foot = 0.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 34.00 feet)+ 0.15 gallon = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 15:54	PURGING ENDED AT: 16:05	TOTAL VOLUME PURGED (gallons): 1.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:58		0.30	0.080	12.66	4.44	22.81	126.30	1.37	7.70	clear	none
16:01	0.30	0.60	0.086	12.66	4.42	22.85	126.20	1.13	1.50	clear	none
16:04	0.30	0.90	0.093	12.66	4.43	22.88	126.40	1.01	0.90	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .97	TEMP.(°C): 22.89	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 126.3	pH: 4.44	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): -156	TURB(NTU): 1	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 16:05	SAMPLING ENDED AT: 16:16
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 344.13	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N
Filtration Equipment Type:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-32B	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	4.44	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-33A	SAMPLE ID: 051A120236614E5681E8934411A3F76A	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 5.01-15	STATIC DEPTH TO WATER (feet): 12.60	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (17.60 feet – 12.60 feet) X 0.04 gallons/foot = 0.20 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 18.00 feet)+ 0.15 gallon = 0.19 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.00	PURGING INITIATED AT: 11:30	PURGING ENDED AT: 13:57	TOTAL VOLUME PURGED (gallons): 3.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:49		1.90	0.099	14.93	4.87	23.37	103.00	0.00	4.00		
13:38	0.30	2.20	0.003	13.46	4.77	23.01	103.00	3.67	2.20	clear	none
13:41	0.30	2.50	0.019	13.63	4.79	23.77	105.00	2.19	6.90	clear	none
13:54	0.50	3.00	0.039	15.35	4.76	22.59	104.00	1.48	14.70	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.16	TEMP.(°C): 22.75	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 106	pH: 4.78	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 178	TURB(NTU): 17.4	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:57	SAMPLING ENDED AT: 14:07
PUMP OR TUBING DEPTH IN WELL (feet): 14.00	SAMPLE PUMP FLOW RATE (mL per minute): 79.83	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-33A	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	4.78	Fe/Mn	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-33B	SAMPLE ID: 1BC1EFC793B8412897EE628B226C21F2	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 25-30	STATIC DEPTH TO WATER (feet): 11.94	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (33.35 feet – 11.94 feet) X 0.04 gallons/foot = 0.87 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 34.00 feet)+ 0.15 gallon = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 14:12	PURGING ENDED AT: 14:34	TOTAL VOLUME PURGED (gallons): 3.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:19		1.00	0.134	12.29	4.74	22.88	148.00	0.64	2.60	clear	none
14:26	1.00	2.00	0.141	12.30	4.75	22.98	148.00	0.37	1.30	clear	none
14:33	1.00	3.00	0.140	12.30	4.75	22.93	148.00	0.40	0.20	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .4	TEMP.(°C): 23.12	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 149	pH: 4.74	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 119	TURB(NTU): 0	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 14:34	SAMPLING ENDED AT: 14:39
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 567.81	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-33B	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	4.74	Fe/Mn	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-37B	SAMPLE ID: 21920B9EAAEF4BD39DAA010BB9B55EB9	DATE: 04/01/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 25-30	STATIC DEPTH TO WATER (feet): 10.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (33.20 feet – 10.00 feet) X 0.04 gallons/foot = 0.95 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 34.00 feet)+ 0.15 gallon = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 15:00	PURGING ENDED AT: 15:17	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:03		0.30	0.091	10.00	5.04	23.27	188.60	1.46	46.40	milky	none
15:07	0.30	0.60	0.085	10.00	5.04	23.17	188.40	1.42	26.20	milky	none
15:10	0.30	0.90	0.090	10.00	5.04	23.14	188.00	1.22	17.90	clear	none
15:13	0.30	1.20	0.094	10.00	5.02	23.11	188.10	0.83	11.80	clear	none
15:17	0.30	1.50	0.091	10.00	5.02	23.09	188.30	1.10	9.30	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.03	TEMP.(°C): 23.08	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 188.3	pH: 5.02	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): -135	TURB(NTU): 8.3	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:17	SAMPLING ENDED AT: 15:28
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 356.27	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N FILTER SIZE: NA
Filtration Equipment Type:
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-37B	3	CG	40 ml	HCL	40 ml	5.02	VOCs	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-41B	SAMPLE ID: 6DD8AFDB46C742A683EA1FB6D8036BD7	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH (feet): 30-35	STATIC DEPTH TO WATER (feet): 7.68	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.00 feet – 7.68 feet) X 0.16 gallons/foot = 4.46 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.01 gallons+(0.00 gallons/foot X 37.00 feet)+ 0.13 gallon = 0.14 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.00	PURGING INITIATED AT: 15:04	PURGING ENDED AT: 15:24	TOTAL VOLUME PURGED (gallons): 1.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:09		0.30	0.057	7.81	5.07	24.27	125.00	0.70	13.10	clear	none
15:12	0.30	0.60	0.076	7.88	5.10	24.27	124.00	0.42	3.10	clear	sulfuric
15:16	0.30	0.90	0.077	7.88	5.09	24.27	124.00	0.47	2.90	clear	sulfuric
15:20	0.30	1.20	0.077	7.86	5.02	24.27	123.00	0.54	1.80	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 0.54	TEMP.(°C): 24.27	DO: 0	CO2: 242	DO High Range:	DO Low Range:
SEC(uS/cm) 124	pH: 5.08	Alkalinity:	Ferrous Iron: 1.0	CO2 High Range:	CO2 Low Range:
ORP(mV): 97	TURB(NTU): 2.4	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Willis	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:24	SAMPLING ENDED AT: 15:49
PUMP OR TUBING DEPTH IN WELL (feet): 33.00	SAMPLE PUMP FLOW RATE (mL per minute): 246.05	TUBING MATERIAL CODE:	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-41B	8	AG;CG;PE	0 ml;500 m		40 ml;500 ml	5.08		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2		SITE LOCATION:	Orlando	
WELL NO:	OLD-OU2-42B	SAMPLE ID:	DEA6513DC6B346BB8F3579796ED3714E	DATE:	04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 34-39	STATIC DEPTH TO WATER (feet): 7.18	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (39.50 feet – 7.18 feet) X 0.16 gallons/foot = 5.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 40.50 feet)+ 0.15 gallon = 0.25 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36.50	PURGING INITIATED AT: 10:59	PURGING ENDED AT: 11:09	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:02		0.30	0.116	7.35	5.11	23.72	104.00	0.93	4.10	clear	sulfuric
11:05	0.30	0.60	0.095	7.57	5.11	23.60	102.00	0.69	6.50	clear	sulfuric
11:08	0.30	0.90	0.138	7.55	5.11	23.77	100.00	0.71	6.90	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .75	TEMP.(°C): 23.66	DO: .48	CO2: 128	DO High Range:	DO Low Range:
SEC(uS/cm) 99	pH: 5.10	Alkalinity:	Ferrous Iron: .8	CO2 High Range:	CO2 Low Range:
ORP(mV): 95	TURB(NTU): 4.6	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:09	SAMPLING ENDED AT: 11:35
PUMP OR TUBING DEPTH IN WELL (feet): 36.50	SAMPLE PUMP FLOW RATE (mL per minute): 454.25	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-42B	8	AG;CG;PE	0 ml;500 m	HCL;None	40 ml;500 ml		Biogenic Gases	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME: Groundwater Sampling at Operable Unit 2		SITE LOCATION: Orlando	
WELL NO: OLD-OU2-43B	SAMPLE ID: FB76275B0DCB43DB9E33389D3114CCCA		DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 29.5-34.5	STATIC DEPTH TO WATER (feet): 6.96	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.00 feet – 6.96 feet) X 0.16 gallons/foot = 4.58 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 11:49	PURGING ENDED AT: 11:59	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:52		0.30	0.094	7.12	4.88	23.64	132.00	0.61	4.10	clear	sulfuric
11:55	0.30	0.60	0.098	7.12	4.82	23.80	133.00	0.41	5.90	clear	sulfuric
11:58	0.30	0.90	0.102	7.13	4.84	23.66	133.00	0.36	2.10	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .35	TEMP.(°C): 23.59	DO: .6	CO2: 140	DO High Range:	DO Low Range:
SEC(uS/cm) 133	pH: 4.81	Alkalinity:	Ferrous Iron: .8	CO2 High Range:	CO2 Low Range:
ORP(mV): 75	TURB(NTU): 1.8	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:59	SAMPLING ENDED AT: 12:13
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 454.25	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-43B	8	AG;CG;PE	0 ml;500 m	HCL;None	40 ml;500 ml	4.81	Biogenic Gases	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-44B	SAMPLE ID: 7AA2ECC402A34C8EAA1822D7319241FA	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 28.5-33.5	STATIC DEPTH TO WATER (feet): 7.37	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (34.50 feet – 7.37 feet) X 0.16 gallons/foot = 4.43 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 35.50 feet)+ 0.13 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.50	PURGING INITIATED AT: 11:45	PURGING ENDED AT: 12:03	TOTAL VOLUME PURGED (gallons): 2.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:52		0.25	0.031	7.64	4.83	23.99	110.00	0.61	12.10	clear	sulfuric
11:56	0.25	0.50	0.043	7.65	4.86	23.98	109.00	0.60	11.40	clear	sulfuric
12:01	0.25	0.75	0.046	7.66	4.86	24.07	109.00	0.59	10.60		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 0.62	TEMP.(°C): 24.11	DO: 0.0	CO2: 320	DO High Range:	DO Low Range:
SEC(uS/cm) 108	pH: 4.89	Alkalinity:	Ferrous Iron: 1.2	CO2 High Range:	CO2 Low Range:
ORP(mV): 89	TURB(NTU): 10.7	H2S: 2.06	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide: 1.95		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Willis	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:03	SAMPLING ENDED AT: 13:20
PUMP OR TUBING DEPTH IN WELL (feet): 31.50	SAMPLE PUMP FLOW RATE (mL per minute): 420.60	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☑ Y ☐ N FILTER SIZE: 0.45 um DUPLICATE: ☐ Y ☑ N
Filtration Equipment Type: AcroCap w/Super Membrane

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-44B	8	AG;CG;PE	0 ml;500 m	CL;Other;Nor	40 ml;500 ml	4.89	voc	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-45B	SAMPLE ID: 4E1B728557A641D0959BA0BDD86F22A4	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 7.37	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – 7.37 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.01 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.13 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 13:42	PURGING ENDED AT: 14:10	TOTAL VOLUME PURGED (gallons): 2.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:48			0.000	7.62	4.86	23.82	128.00	0.74	20.40	clear	sulfuric
13:53		0.60	0.050	7.63	4.87	23.80	125.00	0.43	10.20	clear	sulfuric
13:56	0.30	0.90	0.064	7.59	4.91	23.91	124.00	0.37	7.60	clear	sulfuric
13:59	0.30	1.20	0.069	7.56	4.90	23.53	121.00	0.36	7.90	clear	sulfuric
14:02	0.30	1.50	0.073	7.58	4.90	23.67	120.00	0.31	8.40	clear	sulfuric
14:07	0.30	1.80	0.070	7.58	4.97	23.60	119.00	0.29	6.10	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .28	TEMP.(°C): 24.06	DO: 0.00	CO2: 295	DO High Range:	DO Low Range:
SEC(uS/cm) 119	pH: 4.96	Alkalinity:	Ferrous Iron: 1	CO2 High Range:	CO2 Low Range:
ORP(mV): 66	TURB(NTU): 5.7	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Willis	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 14:10	SAMPLING ENDED AT: 14:47
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-45B	8	AG;CG;PE	0 ml;500 m		40 ml;500 ml	4.96	Biogenic Gases	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-46B	SAMPLE ID: E044A912D5A042C6A587AF359A6EA9F2	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 30-35	STATIC DEPTH TO WATER (feet): 6.90	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.45 feet – 6.90 feet) X 0.16 gallons/foot = 4.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 15:36	PURGING ENDED AT: 15:51	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:39		0.30	0.115	7.23	4.32	24.44	127.70	2.18	16.10	milky	none
15:42	0.30	0.60	0.104	7.23	4.21	24.36	127.30	2.03	13.30	clear	none
15:45	0.30	0.90	0.105	7.23	4.14	24.28	127.70	1.50	13.00	clear	none
15:48	0.30	1.20	0.103	7.23	4.04	24.19	128.80	1.60	9.20	clear	none
15:51	0.30	1.50	0.103	7.23	3.99	24.13	128.90	1.40	7.20	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.39	TEMP.(°C): 24.14	DO: .89	CO2: 55	DO High Range:	DO Low Range:
SEC(uS/cm) 128.6	pH: 3.96	Alkalinity:	Ferrous Iron: 1	CO2 High Range:	CO2 Low Range:
ORP(mV): -109	TURB(NTU): 7.5	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:51	SAMPLING ENDED AT: 16:33
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 403.78	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N FILTER SIZE: NA
Filtration Equipment Type:
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-46B	8	AG;CG;PE	0 ml;500 m	CL;Other;Nor	40 ml;500 ml	3.96	Biogenic Gases	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-47B	SAMPLE ID: AF600396EF3C4E40B1651B55D01BEAB7	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 30-35	STATIC DEPTH TO WATER (feet): 7.20	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.00 feet – 7.20 feet) X 0.16 gallons/foot = 4.54 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 35.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	PURGING INITIATED AT: 12:52	PURGING ENDED AT: 13:04	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:55		0.30	0.102	7.60	4.97	24.04	131.00	0.80	0.80	clear	sulfuric
13:00	0.30	0.60	0.084	7.60	4.92	24.17	134.00	0.79	1.30	clear	sulfuric
13:04	0.30	0.90	0.081	7.62	4.87	24.20	135.00	0.77	1.20	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .75	TEMP.(°C): 24.15	DO: .38	CO2: 160	DO High Range:	DO Low Range:
SEC(uS/cm) 134	pH: 4.87	Alkalinity:	Ferrous Iron: 1	CO2 High Range:	CO2 Low Range:
ORP(mV): 62	TURB(NTU): 1.3	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:04	SAMPLING ENDED AT: 13:19
PUMP OR TUBING DEPTH IN WELL (feet): 31.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-47B	8	AG;CG;PE	0 ml;500 m	HCL;None	40 ml;500 ml		Biogenic Gases	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-48B	SAMPLE ID: B459A451493E45B2BB045ABDEF5E2390	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 7.55	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (38.20 feet – 7.55 feet) X 0.16 gallons/foot = 5.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 39.00 feet)+ 0.15 gallon = 0.25 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.00	PURGING INITIATED AT: 11:40	PURGING ENDED AT: 11:53	TOTAL VOLUME PURGED (gallons): 1.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:43		0.30	0.126	8.55	5.67	24.21	266.20	1.83	5.30	clear	none
11:46	0.30	0.60	0.102	8.65	5.68	24.16	264.40	1.38	3.40	clear	none
11:49	0.30	0.90	0.106	8.70	5.65	24.18	261.20	1.20	5.20	clear	none
11:52	0.30	1.20	0.102	8.75	5.50	24.14	259.40	0.99	2.60	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .93	TEMP.(°C): 24.14	DO: 0	CO2: 93	DO High Range:	DO Low Range:
SEC(uS/cm) 259.9	pH: 5.52	Alkalinity:	Ferrous Iron: 1.6	CO2 High Range:	CO2 Low Range:
ORP(mV): -137	TURB(NTU): 2.5	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:53	SAMPLING ENDED AT: 12:35
PUMP OR TUBING DEPTH IN WELL (feet): 35.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-48B	8	AG;CG;PE	0 ml;500 m	HCL;Other	40 ml;500 ml	5.52	Biogenic Gases	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-49B	SAMPLE ID: 654A6B4BA258433689A887CF7518885E	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 25-35	STATIC DEPTH TO WATER (feet): 5.59	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.00 feet – 5.59 feet) X 0.16 gallons/foot = 4.80 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 36.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.00	PURGING INITIATED AT: 13:37	PURGING ENDED AT: 13:46	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:40		0.30	0.134	5.91	4.76	22.94	116.00	0.78	4.70	clear	sulfuric
13:43	0.30	0.60	0.115	6.00	4.70	22.81	115.00	0.48	5.50	clear	sulfuric
13:45	0.30	0.90	0.115	5.92	4.75	22.78	114.00	0.41	5.20	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .4	TEMP.(°C): 22.79	DO: .35	CO2: 168	DO High Range:	DO Low Range:
SEC(uS/cm) 114	pH: 4.72	Alkalinity:	Ferrous Iron: 2	CO2 High Range:	CO2 Low Range:
ORP(mV): 92	TURB(NTU): 6.4	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:46	SAMPLING ENDED AT: 14:00
PUMP OR TUBING DEPTH IN WELL (feet): 32.00	SAMPLE PUMP FLOW RATE (mL per minute): 504.72	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-49B	8	AG;CG;PE	0 ml;500 m	HCL;None	40 ml;500 ml		Biogenic Gases	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-50B	SAMPLE ID: 417CF1DEA48D46F0B9B0DA4C14362E17	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 23-33	STATIC DEPTH TO WATER (feet): 4.80	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (33.00 feet – 4.80 feet) X 0.16 gallons/foot = 4.60 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 34.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 13:43	PURGING ENDED AT: 14:12	TOTAL VOLUME PURGED (gallons): 2.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:46		0.30	0.107	5.10	4.40	25.08	135.60	2.69	14.00	clear	none
13:49	0.30	0.60	0.095	5.10	4.32	24.68	135.50	2.63	12.50	clear	none
13:52	0.30	0.90	0.099	5.10	4.03	24.38	133.80	2.36	11.60	clear	none
13:55	0.30	1.20	0.101	5.10	3.92	23.76	136.00	2.38	11.80	clear	none
13:58	0.30	1.50	0.102	5.10	3.89	23.68	133.80	1.90	9.90	clear	none
14:01	0.30	1.80	0.100	5.10	3.82	23.55	132.70	1.34	15.80	clear	none
14:08	0.50	2.30	0.077	5.10	3.73	23.61	130.10	1.37	12.10	clear	none
14:11	0.30	2.60	0.092	5.10	3.84	23.70	128.20	1.27	19.50	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.18	TEMP.(°C): 23.67	DO: 0	CO2: 93	DO High Range:	DO Low Range:
SEC(uS/cm) 127.7	pH: 3.83	Alkalinity:	Ferrous Iron: 2	CO2 High Range:	CO2 Low Range:
ORP(mV): -99	TURB(NTU): 18.6	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 14:12	SAMPLING ENDED AT: 14:48
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 352.43	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-50B	8	AG;CG;PE	0 ml;500 m	CL;Other;Nor	40 ml;500 ml	3.83	Biogenic Gases	

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-51B	SAMPLE ID: 1973FAF519394579890E295D7A4A012F	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 24-34	STATIC DEPTH TO WATER (feet): 8.65	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (34.00 feet – 8.65 feet) X 0.16 gallons/foot = 4.14 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 35.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	PURGING INITIATED AT: 14:54	PURGING ENDED AT: 15:06	TOTAL VOLUME PURGED (gallons): 1.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:57		0.30	0.104	8.75	4.36	24.07	110.70	1.77	5.00	clear	slight HC
15:00	0.30	0.60	0.100	8.80	4.37	24.01	110.90	1.55	4.10	clear	slight HC
15:03	0.30	0.90	0.102	8.80	4.39	24.09	110.10	1.24	6.40	clear	slight HC
15:06	0.30	1.20	0.101	8.80	4.39	24.07	110.30	1.08	5.40	clear	slight HC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 1.11	TEMP.(°C): 24.04	DO: 0	CO2: 102	DO High Range:	DO Low Range:
SEC(uS/cm) 110.2	pH: 4.38	Alkalinity:	Ferrous Iron: 1.6	CO2 High Range:	CO2 Low Range:
ORP(mV): -62	TURB(NTU): 7	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:06	SAMPLING ENDED AT: 15:46
PUMP OR TUBING DEPTH IN WELL (feet): 31.00	SAMPLE PUMP FLOW RATE (mL per minute): 410.09	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-51B	8	AG;CG;PE	0 ml;500 m	CL;Other;Nor	40 ml;500 ml	4.38	Biogenic Gases	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-53B	SAMPLE ID: CB5F6E793D764FC8BC9F729256EE1EB0	DATE: 04/04/2011

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 25-35	STATIC DEPTH TO WATER (feet): 6.13	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35.00 feet – 6.13 feet) X 0.16 gallons/foot = 4.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.01 gallons+(0.00 gallons/foot X 37.00 feet)+ 0.13 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.00	PURGING INITIATED AT: 16:05	PURGING ENDED AT: 16:21	TOTAL VOLUME PURGED (gallons): 0.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:13		0.30	0.038	6.40	5.19	24.18	114.00	0.39	5.60	clear	sulfuric
16:16	0.30	0.60	0.055	6.42	5.03	24.02	114.00	0.30	4.50	clear	sulfuric
16:19	0.30	0.90	0.064	6.47	5.21	24.00	114.00	0.28	5.50	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .23	TEMP.(°C): 24.13	DO: 0	CO2: 340	DO High Range:	DO Low Range:
SEC(uS/cm) 115	pH: 5.12	Alkalinity:	Ferrous Iron: 0.9	CO2 High Range:	CO2 Low Range:
ORP(mV): 49	TURB(NTU): 4.9	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Willis	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 16:21	SAMPLING ENDED AT: 16:50
PUMP OR TUBING DEPTH IN WELL (feet): 33.00	SAMPLE PUMP FLOW RATE (mL per minute): 212.93	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-53B	8	AG;CG;PE	0 ml;250 m		40 ml;250 ml	5.12	BiogenicGases	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-DP01A	SAMPLE ID: 6EE22389BD6B44A0A3C3D8396D0E0082	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 3.5-7.5	STATIC DEPTH TO WATER (feet): 1.70	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (7.44 feet – 1.70 feet) X 0.04 gallons/foot = 0.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 10.00 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.00	PURGING INITIATED AT: 14:06	PURGING ENDED AT: 14:21	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:09		0.30	0.101	1.70	4.84	28.59	302.90	3.35	5.00	clear	sulfuric
14:13	0.30	0.60	0.095	1.70	4.76	28.54	302.90	3.28	4.90	clear	sulfuric
14:15	0.30	0.90	0.097	1.70	4.85	27.61	302.00	3.41	2.50	clear	sulfuric
14:18	0.30	1.20	0.103	1.70	4.82	26.78	301.70	3.44	3.30	clear	sulfuric
14:21	0.30	1.50	0.104	1.70	4.78	26.19	301.50	3.54	1.70	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): 3.57	TEMP.(°C): 26.34	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 302.3	pH: 4.87	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 39	TURB(NTU): 1.2	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 14:21	SAMPLING ENDED AT: 14:35
PUMP OR TUBING DEPTH IN WELL (feet): 6.00	SAMPLE PUMP FLOW RATE (mL per minute): 403.78	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N FILTER SIZE: NA
Filtration Equipment Type:
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-DP01A	3	CG	40 ml	HCL	40 ml	4.87	VOCs	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-DP02A	SAMPLE ID: E536F0122AEA48A5815117476713ABE7	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 3.5-7.5	STATIC DEPTH TO WATER (feet): 2.20	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (8.70 feet – 2.20 feet) X 0.04 gallons/foot = 0.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 10.70 feet)+ 0.15 gallon = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.70	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.70	PURGING INITIATED AT: 15:38	PURGING ENDED AT: 16:01	TOTAL VOLUME PURGED (gallons): 2.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:42		0.30	0.090	4.58	4.50	28.84	193.00	1.44	7.40	clear	sulfuric
15:45	0.30	0.60	0.089	4.58	4.42	29.15	179.00	0.86	12.20	clear	sulfuric
15:48	0.30	0.90	0.099	4.57	4.41	29.51	162.00	0.78	13.80	clear	sulfuric
15:51	0.30	1.20	0.096	4.51	4.45	29.80	140.00	0.78	14.90	clear	sulfuric
15:54	0.30	1.50	0.094	4.53	4.67	29.13	119.00	0.68	17.60	clear	sulfuric
15:57	0.30	1.80	0.096	4.48	4.79	29.09	116.00	0.55	1.70	clear	sulfuric
16:00	0.30	2.10	0.099	4.35	4.77	29.39	115.00	0.42	4.20	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L): .38	TEMP.(°C): 29.52	DO: 0	CO2: 158	DO High Range:	DO Low Range:
SEC(uS/cm) 115	pH: 4.77	Alkalinity:	Ferrous Iron: .9	CO2 High Range:	CO2 Low Range:
ORP(mV): 35	TURB(NTU): 4	H2S: 2.15	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Katie Ballew	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 16:01	SAMPLING ENDED AT: 16:18
PUMP OR TUBING DEPTH IN WELL (feet): 6.70	SAMPLE PUMP FLOW RATE (mL per minute): 395.00	TUBING MATERIAL CODE: Teflon	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-DP02A	10	AG;CG;PE	ml;500 ml;	4;HCL;HNO3	40 ml;500 ml;1 L		Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sul	SM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-LG1	SAMPLE ID: 54FB236F90184AB7B4F63BB653E762F0	DATE: 03/30/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 13:22	PURGING ENDED AT: 13:23	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 27.89	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 144.1	pH: 7.23	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 190	TURB(NTU): 6.1	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:23	SAMPLING ENDED AT: 13:26
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 1,892.71	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-LG1	3	CG	40 ml	HCL	40 ml	7.23	VOCs	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW29	SAMPLE ID: B1A570909AD944E8A439BCF6CBCCDCAA	DATE: 03/30/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 12:20	PURGING ENDED AT: 12:23	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 28.27	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 124.7	pH: 6.76	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 199	TURB(NTU): 4.8	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:23	SAMPLING ENDED AT: 12:25
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 630.90	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW29	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	6.76	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2		SITE LOCATION:	Orlando	
WELL NO:	OLD-OU2-SW30	SAMPLE ID:	134C0EB1E6FF4C53A0128B397059CBA7	DATE:	03/30/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 12:38	PURGING ENDED AT: 12:38	TOTAL VOLUME PURGED (gallons): 0.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 27.97	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 126.2	pH: 6.97	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 200	TURB(NTU): 8.1	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:38	SAMPLING ENDED AT: 12:44
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 0.00	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW30	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	6.97	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW31	SAMPLE ID: 132D33C6BEAE4E5FBC722C0E1ECD9476	DATE: 03/30/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 12:52	PURGING ENDED AT: 12:52	TOTAL VOLUME PURGED (gallons): 0.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 27.87	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 129.5	pH: 6.91	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 203	TURB(NTU): 3.9	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:52	SAMPLING ENDED AT: 12:59
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 0.00	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW31	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	6.91	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW32	SAMPLE ID: 357116F3841A45938B90CC7386DB37C3	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.15 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:58	PURGING ENDED AT: 12:02	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 24.59	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 132.9	pH: 5.4	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 244	TURB(NTU): 11.6	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:02	SAMPLING ENDED AT: 12:16
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 473.18	TUBING MATERIAL CODE:	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW32	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	5.4	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW33	SAMPLE ID: 2D4608E660174C9A9D038F6DCBD5B0E6	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.15 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 13:23	PURGING ENDED AT: 13:24	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 28.72	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 104.4	pH: 5.9	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 127	TURB(NTU): 2.4	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:24	SAMPLING ENDED AT: 13:39
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 1,892.71	TUBING MATERIAL CODE:	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW33	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	5.9	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW34	SAMPLE ID: B10B85CACCE0484CA638E00B72DE4989	DATE: 04/07/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.15 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:47	PURGING ENDED AT: 15:47	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 30.93	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 109.9	pH: 5.96	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 98	TURB(NTU): 6.1	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 15:47	SAMPLING ENDED AT: 16:03
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 0.00	TUBING MATERIAL CODE:	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW34	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	5.96	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW35	SAMPLE ID: FC43414D69204DAFB76904325F23F3E7	DATE: 03/30/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 13:39	PURGING ENDED AT: 13:39	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 28.97	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 114.6	pH: 6.38	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 177	TURB(NTU): 12.5	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:39	SAMPLING ENDED AT: 13:46
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 0.00	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N	FIELD-FILTERED: ☐ Y ☑ N Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW35	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	6.38	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

BFA Environmental Consultants

GROUNDWATER SAMPLING LOG

SITE NAME:	Groundwater Sampling at Operable Unit 2	SITE LOCATION:	Orlando
WELL NO:	OLD-OU2-SW36	SAMPLE ID: 32996F060A6B45988161F5ACA08FD293	DATE: 03/30/2011

PURGING DATA

WELL DIAMETER (inches): 0.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (0.00 feet – 0.00 feet) X 0.00 gallons/foot = 0.00 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.00 gallons+(0.00 gallons/foot X 4.00 feet)+ 0.15 gallon = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 13:55	PURGING ENDED AT: 13:55	TOTAL VOLUME PURGED (gallons): 0.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)		CHEMetrics Field Data(mg/L)	
DO(mg/L):	TEMP.(°C): 28.14	DO:	CO2:	DO High Range:	DO Low Range:
SEC(uS/cm) 172.3	pH: 6.41	Alkalinity:	Ferrous Iron:	CO2 High Range:	CO2 Low Range:
ORP(mV): 214	TURB(NTU): 1.3	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:	Sulfide:		
		Nitrate:			

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 13:55	SAMPLING ENDED AT: 13:59
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 0.00	TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: ☑ Y ☐ N
FIELD-FILTERED: ☐ Y ☑ N
Filtration Equipment Type:
FILTER SIZE: NA
DUPLICATE: ☐ Y ☑ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
OLD-OU2-SW36	4	CG;PE	0 ml;500 m	HCL;HNO3	40 ml;500 ml	6.41	Fe/Mn	Grab

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

APPENDIX C
Field Instrument Calibration Reports

Form FD 9000-8: Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#)	InSitu Troll 9500XT	INSTRUMENT #	47616

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard	Type	Value	Origin	Date Purchased	Expiration Date
Standard A	Saturated Water	100%	DIW from Accutest	NA	NA
Standard B	pH	4	HACH	03/08/2011	02/01/2015
Standard C	pH	7	HACH	09/01/2010	08/01/2011
Standard D	pH	10	HACH	09/01/2010	07/01/2014
Standard E	Turbidity	40NTU	HACH StablCal	09/01/2010	03/01/2012
Standard F	Turbidity	0	DIW from Accutest	NA	NA
Standard G	Turbidity	100NTU	HACH StablCal	07/01/2010	07/01/2011
Standard H	Conductance	1413µS/cm	Radiometer Analytical	07/01/2010	07/01/2011
Standard I	Conductance	12.88mS/cm	Radiometer Analytical	07/01/2010	07/01/2011
Standard J	ORP	240mv	Vital Sine	07/01/2010	11/01/2013
Standard K	ORP	Zorbells Solution	HACH	09/01/2010	12/01/2010
Standard L	1) pH	4	Autocal	09/01/2010	08/01/2011
	2) Turbidity	0			
	3) Conductance	4.49ms/cm			

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	RECALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/03/15	09:00	L1	4.01	3.99	-0.5	N	I	DA
		L2	0	-0.6	---	Y	I	DA
		L3	4.49	4.85	8.0	Y	I	DA
		A	100	98	-2.0	N	I	DA
11/03/17	09:00	L1	4.01	4.1	2.2	N	C	DA
		L2	0	0.1	---	N	C	DA
		L3	4.49	4.47	-0.4	N	C	DA
		A	100	96	-4.0	N	C	DA
11/03/18	09:00	L1	4.01	4.06	1.2	N	C	DA
		L2	0	0	---	N	C	DA
		L3	4.49	4.51	0.4	N	C	DA
		A	100	99	-1.0	N	C	DA
11/03/21	08:54	L1	4	4.11	2.8	N	C	KB
		L2	0	2.4	---	N	C	KB
		L3	4490	4472	-0.4	N	C	KB
		A	100	100	0.0	N	C	KB
11/03/22	09:39	L1	4	4.09	2.3	N	C	KB
		L2	0	0	---	N	C	KB
		L3	4.49	4.44	-1.1	N	C	KB
		A	100	99.9	-0.1	N	C	KB
11/03/23	09:30	L1	4.01	4.13	3.0	N	C	DA
		L2	0	0.1	---	N	C	DA
		L3	4.49	4.42	-1.6	N	C	DA
		A	100	98	-2.0	N	C	DA
11/03/24	09:45	L1	4.01	4.21	5.0	Y	C	DA
		L2	0	-0.2	---	N	C	DA
		L3	4.49	4.35	-3.1	N	C	DA
		A	100	99	-1.0	N	C	DA
11/03/25	10:20	L1	4.01	3.96	-1.2	N	C	DA
		L2	0	0.5	---	N	C	DA
		L3	4.49	4.4	-2.0	N	C	DA
		A	100	97	-3.0	N	C	DA
11/03/30	09:45	L1	4.01	3.58	-10.7	Y	C	DA
		L2	0	-0.8	---	Y	C	DA
		L3	4.49	4.44	-1.1	N	C	DA
		A	100	101	1.0	N	C	DA
11/04/01	10:00	L1	4.01	4.12	2.7	N	C	DA
		L2	0	0.1	---	N	C	DA
		L3	4.49	4.42	-1.6	N	C	DA
		A	100	99	-1.0	N	C	DA
11/04/04	09:30	L1	4.01	4.17	4.0	N	C	DA
		L2	0	-0.2	---	N	C	DA
		L3	4.49	4.4	-2.0	N	C	DA
		A	100	99	-1.0	N	C	DA
		J	240	169	-29.6	Y	C	DA
11/04/07	09:24	L1	4	4.07	1.8	N	C	KB
		L2	0	1.6	---	N	C	KB

Form FD 9000-8: Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#)	InSitu Troll 9500XT	INSTRUMENT #	47616

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard	Type	Value	Origin	Date Purchased	Expiration Date
Standard A	Saturated Water	100%	DIW from Accutest	NA	NA
Standard B	pH	4	HACH	03/08/2011	02/01/2015
Standard C	pH	7	HACH	09/01/2010	08/01/2011
Standard D	pH	10	HACH	09/01/2010	07/01/2014
Standard E	Turbidity	40NTU	HACH StablCal	09/01/2010	03/01/2012
Standard F	Turbidity	0	DIW from Accutest	NA	NA
Standard G	Turbidity	100NTU	HACH StablCal	07/01/2010	07/01/2011
Standard H	Conductance	1413µS/cm	Radiometer Analytical	07/01/2010	07/01/2011
Standard I	Conductance	12.88mS/cm	Radiometer Analytical	07/01/2010	07/01/2011
Standard J	ORP	240mv	Vital Sine	07/01/2010	11/01/2013
Standard K	ORP	Zorbells Solution	HACH	09/01/2010	12/01/2010
Standard L	1) pH	4	Autocal	09/01/2010	08/01/2011
	2) Turbidity	0			
	3) Conductance	4.49ms/cm			

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	RECALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
		L3	4490	4488	0.0	N	C	KB
11/04/08	08:39	L1	4	4.02	0.5	N	C	KB
		L2	0	0.6	---	N	C	KB
		L3	4490	4518	0.6	N	C	KB

Form FD 9000-8: Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#)	Hydrolab DS-5	INSTRUMENT #	SN 090600047993

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard	Type	Value	Origin	Date Purchased	Expiration Date
Standard A	Saturated Water	100%	DIW from Accutest	NA	NA
Standard B	pH	4	HACH	03/08/2011	02/01/2015
Standard C	pH	7	HACH	09/01/2010	08/01/2011
Standard D	pH	10	HACH	09/01/2010	07/01/2014
Standard E	Turbidity	40NTU	HACH StablCal	09/01/2010	03/01/2012
Standard F	Turbidity	0	DIW from Accutest	NA	NA
Standard G	Turbidity	100NTU	HACH StablCal	07/01/2010	07/01/2011
Standard H	Conductance	1413µS/cm	Radiometer Analytical	07/01/2010	07/01/2011
Standard I	Conductance	12.88mS/cm	Radiometer Analytical	07/01/2010	07/01/2011
Standard J	ORP	240mv	Vital Sine	07/01/2010	11/01/2013
Standard K	ORP	Zorbells Solution	HACH	09/01/2010	12/01/2010
Standard L	1) pH	4	Autocal	09/01/2010	08/01/2011
	2) Turbidity	0			
	3) Conductance	4.49ms/cm			

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	RECALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/03/15	08:39	L1	4	4.34	8.5	Y	C	KB
		L2	0	0	---	N	C	KB
		L3	4490	4777	6.4	Y	C	KB
		A	100	100	0.0	N	C	KB
11/03/17	08:42	L1	4	3.91	-2.3	N	C	KB
		L2	0	0	---	N	C	KB
		L3	4490	4337	-3.4	N	C	KB
		A	100	100	0.0	N	C	KB
11/03/18	09:24	L1	4	3.91	-2.3	N	C	KB
		L2	0	0	---	N	C	KB
		L3	4490	4354	-3.0	N	C	KB
		A	100	100	0.0	N	C	KB
11/03/21	08:42	L1	4	3.92	-2.0	N	C	KB
		L2	0	0	---	N	C	KB
		L3	4490	4281	-4.7	N	C	KB
		A	100	100	0.0	N	C	KB

APPENDIX D
March 2011 Laboratory Analytical Reports (Included on CD)

Southeast ACCUTEST LABORATORIES

05/02/11

Technical Report for

BFA Environmental Consultants

NTC Orlando, Orlando, FL

07-71009/2

Accutest Job Number: F81422

Sampling Date: 04/07/11

Report to:

BFA Environmental Consultants
1230 Hillcrest Street Suite 100
Orlando, FL 32803
jwillis@bfaenvironmental.com

ATTN: John Willis

Total number of pages in report: **88**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest Laboratories

Sample Summary

BFA Environmental Consultants

Job No: F81422

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81422-1	04/07/11	11:05	RW	04/09/11	AQ	Ground Water	OLD-OU2-42B
F81422-1F	04/07/11	11:05	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-42B
F81422-2	04/07/11	11:59	RW	04/09/11	AQ	Ground Water	OLD-OU2-43B
F81422-2F	04/07/11	11:59	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-43B
F81422-3	04/07/11	12:02	RW	04/09/11	AQ	Ground Water	OLD-OU2-SW32
F81422-4	04/07/11	12:55	RW	04/09/11	AQ	Ground Water	OLD-OU2-47B
F81422-4F	04/07/11	12:55	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-47B
F81422-5	04/07/11	13:03	RW	04/09/11	AQ	Ground Water	OLD-OU2-12B
F81422-6	04/07/11	13:24	RW	04/09/11	AQ	Ground Water	OLD-OU2-SW33
F81422-7	04/07/11	13:42	RW	04/09/11	AQ	Ground Water	OLD-OU2-49B
F81422-7F	04/07/11	13:42	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-49B
F81422-8	04/07/11	14:21	RW	04/09/11	AQ	Ground Water	OLD-OU2-DP01A
F81422-9	04/07/11	14:43	RW	04/09/11	AQ	Ground Water	OLD-OU2-18B

Sample Summary
(continued)

BFA Environmental Consultants

Job No: F81422

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81422-9F	04/07/11	14:43	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-18B
F81422-10	04/07/11	15:06	RW	04/09/11	AQ	Ground Water	OLD-OU2-51B
F81422-10F	04/07/11	15:06	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-51B
F81422-11	04/07/11	15:44	RW	04/09/11	AQ	Ground Water	OLD-OU2-DP02A
F81422-11F	04/07/11	15:44	RW	04/09/11	AQ	Groundwater Filtered	OLD-OU2-DP02A
F81422-12	04/07/11	15:47	RW	04/09/11	AQ	Ground Water	OLD-OU2-SW34
F81422-13	04/07/11	17:29	RW	04/09/11	AQ	Ground Water	DUP2

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-42B		
Lab Sample ID:	F81422-1	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075036.D	20	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	200 U	500	200	ug/l	
107-02-8	Acrolein	100 U	400	100	ug/l	
107-13-1	Acrylonitrile	60 U	200	60	ug/l	
71-43-2	Benzene	4.0 U	20	4.0	ug/l	
108-86-1	Bromobenzene	5.0 U	20	5.0	ug/l	
74-97-5	Bromochloromethane	4.4 U	20	4.4	ug/l	
75-27-4	Bromodichloromethane	4.0 U	20	4.0	ug/l	
75-25-2	Bromoform	4.0 U	20	4.0	ug/l	
104-51-8	n-Butylbenzene	5.2 U	20	5.2	ug/l	
135-98-8	sec-Butylbenzene	4.4 U	20	4.4	ug/l	
98-06-6	tert-Butylbenzene	5.4 U	20	5.4	ug/l	
108-90-7	Chlorobenzene	4.0 U	20	4.0	ug/l	
75-00-3	Chloroethane	10 U	40	10	ug/l	
67-66-3	Chloroform	4.4 U	20	4.4	ug/l	
95-49-8	o-Chlorotoluene	4.4 U	20	4.4	ug/l	
106-43-4	p-Chlorotoluene	4.0 U	20	4.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	24 U	100	24	ug/l	
75-15-0	Carbon disulfide	10 U	40	10	ug/l	
56-23-5	Carbon tetrachloride	5.0 U	20	5.0	ug/l	
75-34-3	1,1-Dichloroethane	5.0 U	20	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	4.6 U	20	4.6	ug/l	
563-58-6	1,1-Dichloropropene	5.6 U	20	5.6	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	10 U	40	10	ug/l	
106-93-4	1,2-Dibromoethane	7.4 U	20	7.4	ug/l	
107-06-2	1,2-Dichloroethane	4.0 U	20	4.0	ug/l	
78-87-5	1,2-Dichloropropane	5.0 U	20	5.0	ug/l	
142-28-9	1,3-Dichloropropane	4.0 U	20	4.0	ug/l	
594-20-7	2,2-Dichloropropane	8.8 U	20	8.8	ug/l	
124-48-1	Dibromochloromethane	4.0 U	20	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	10 U	40	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	454	20	5.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	4.0 U	20	4.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-42B		
Lab Sample ID:	F81422-1	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	4.0 U	20	4.0	ug/l	
95-50-1	o-Dichlorobenzene	5.0 U	20	5.0	ug/l	
106-46-7	p-Dichlorobenzene	4.6 U	20	4.6	ug/l	
156-60-5	trans-1,2-Dichloroethylene	7.0 U	20	7.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	4.0 U	20	4.0	ug/l	
100-41-4	Ethylbenzene	4.0 U	20	4.0	ug/l	
591-78-6	2-Hexanone	80 U	200	80	ug/l	
87-68-3	Hexachlorobutadiene	16 U	40	16	ug/l	
98-82-8	Isopropylbenzene	4.0 U	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	4.2 U	20	4.2	ug/l	
108-10-1	4-Methyl-2-pentanone	40 U	100	40	ug/l	
74-83-9	Methyl bromide	10 U	40	10	ug/l	
74-87-3	Methyl chloride	10 U	40	10	ug/l	
74-95-3	Methylene bromide	5.0 U	40	5.0	ug/l	
75-09-2	Methylene chloride	40 U	100	40	ug/l	
78-93-3	Methyl ethyl ketone	40 U	100	40	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.8 U	20	6.8	ug/l	
91-20-3	Naphthalene	20 U	100	20	ug/l	
103-65-1	n-Propylbenzene	4.0 U	20	4.0	ug/l	
100-42-5	Styrene	4.0 U	20	4.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	4.0 U	20	4.0	ug/l	
71-55-6	1,1,1-Trichloroethane	4.0 U	20	4.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	4.6 U	20	4.6	ug/l	
79-00-5	1,1,2-Trichloroethane	4.4 U	20	4.4	ug/l	
87-61-6	1,2,3-Trichlorobenzene	10 U	20	10	ug/l	
96-18-4	1,2,3-Trichloropropane	6.0 U	40	6.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	10 U	20	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	5.4 U	40	5.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	4.2 U	40	4.2	ug/l	
127-18-4	Tetrachloroethylene	5.0 U	20	5.0	ug/l	
108-88-3	Toluene	4.0 U	20	4.0	ug/l	
79-01-6	Trichloroethylene	1620	20	5.2	ug/l	
75-69-4	Trichlorofluoromethane	10 U	40	10	ug/l	
75-01-4	Vinyl chloride	9.8	20	4.4	ug/l	I
108-05-4	Vinyl Acetate	40 U	200	40	ug/l	
	m,p-Xylene	6.4 U	40	6.4	ug/l	
95-47-6	o-Xylene	4.0 U	20	4.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-42B		
Lab Sample ID:	F81422-1	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-42B		
Lab Sample ID:	F81422-1	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	2.1	2.0	1.0	mg/l	1	04/11/11 21:33	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-42B		
Lab Sample ID:	F81422-1F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	6.4	1.0	0.24	mg/l	1	04/29/11 20:42	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-43B		
Lab Sample ID:	F81422-2	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075037.D	100	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	1000 U	2500	1000	ug/l	
107-02-8	Acrolein	500 U	2000	500	ug/l	
107-13-1	Acrylonitrile	300 U	1000	300	ug/l	
71-43-2	Benzene	20 U	100	20	ug/l	
108-86-1	Bromobenzene	25 U	100	25	ug/l	
74-97-5	Bromochloromethane	22 U	100	22	ug/l	
75-27-4	Bromodichloromethane	20 U	100	20	ug/l	
75-25-2	Bromoform	20 U	100	20	ug/l	
104-51-8	n-Butylbenzene	26 U	100	26	ug/l	
135-98-8	sec-Butylbenzene	22 U	100	22	ug/l	
98-06-6	tert-Butylbenzene	27 U	100	27	ug/l	
108-90-7	Chlorobenzene	20 U	100	20	ug/l	
75-00-3	Chloroethane	50 U	200	50	ug/l	
67-66-3	Chloroform	22 U	100	22	ug/l	
95-49-8	o-Chlorotoluene	22 U	100	22	ug/l	
106-43-4	p-Chlorotoluene	20 U	100	20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	120 U	500	120	ug/l	
75-15-0	Carbon disulfide	50 U	200	50	ug/l	
56-23-5	Carbon tetrachloride	25 U	100	25	ug/l	
75-34-3	1,1-Dichloroethane	25 U	100	25	ug/l	
75-35-4	1,1-Dichloroethylene	23 U	100	23	ug/l	
563-58-6	1,1-Dichloropropene	28 U	100	28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	50 U	200	50	ug/l	
106-93-4	1,2-Dibromoethane	37 U	100	37	ug/l	
107-06-2	1,2-Dichloroethane	20 U	100	20	ug/l	
78-87-5	1,2-Dichloropropane	25 U	100	25	ug/l	
142-28-9	1,3-Dichloropropane	20 U	100	20	ug/l	
594-20-7	2,2-Dichloropropane	44 U	100	44	ug/l	
124-48-1	Dibromochloromethane	20 U	100	20	ug/l	
75-71-8	Dichlorodifluoromethane	50 U	200	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	168	100	26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	20 U	100	20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-43B		
Lab Sample ID:	F81422-2	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	20 U	100	20	ug/l	
95-50-1	o-Dichlorobenzene	25 U	100	25	ug/l	
106-46-7	p-Dichlorobenzene	23 U	100	23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	35 U	100	35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	20 U	100	20	ug/l	
100-41-4	Ethylbenzene	20 U	100	20	ug/l	
591-78-6	2-Hexanone	400 U	1000	400	ug/l	
87-68-3	Hexachlorobutadiene	80 U	200	80	ug/l	
98-82-8	Isopropylbenzene	20 U	100	20	ug/l	
99-87-6	p-Isopropyltoluene	21 U	100	21	ug/l	
108-10-1	4-Methyl-2-pentanone	200 U	500	200	ug/l	
74-83-9	Methyl bromide	50 U	200	50	ug/l	
74-87-3	Methyl chloride	50 U	200	50	ug/l	
74-95-3	Methylene bromide	25 U	200	25	ug/l	
75-09-2	Methylene chloride	200 U	500	200	ug/l	
78-93-3	Methyl ethyl ketone	200 U	500	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	34 U	100	34	ug/l	
91-20-3	Naphthalene	100 U	500	100	ug/l	
103-65-1	n-Propylbenzene	20 U	100	20	ug/l	
100-42-5	Styrene	20 U	100	20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	20 U	100	20	ug/l	
71-55-6	1,1,1-Trichloroethane	20 U	100	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	23 U	100	23	ug/l	
79-00-5	1,1,2-Trichloroethane	22 U	100	22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	50 U	100	50	ug/l	
96-18-4	1,2,3-Trichloropropane	30 U	200	30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	50 U	100	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	27 U	200	27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	21 U	200	21	ug/l	
127-18-4	Tetrachloroethylene	47.7	100	25	ug/l	I
108-88-3	Toluene	20 U	100	20	ug/l	
79-01-6	Trichloroethylene	5370	100	26	ug/l	
75-69-4	Trichlorofluoromethane	50 U	200	50	ug/l	
75-01-4	Vinyl chloride	22 U	100	22	ug/l	
108-05-4	Vinyl Acetate	200 U	1000	200	ug/l	
	m,p-Xylene	32 U	200	32	ug/l	
95-47-6	o-Xylene	20 U	100	20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-43B		
Lab Sample ID:	F81422-2	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-43B		
Lab Sample ID:	F81422-2	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	20.5	2.0	1.0	mg/l	1	04/11/11 21:50	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-43B		
Lab Sample ID:	F81422-2F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	24.8	1.0	0.24	mg/l	1	04/29/11 21:06	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW32		
Lab Sample ID:	F81422-3	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075038.D	1	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW32		
Lab Sample ID:	F81422-3	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW32		
Lab Sample ID:	F81422-3	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW32		
Lab Sample ID:	F81422-3	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	460	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	3.3 I	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-47B		
Lab Sample ID:	F81422-4	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075039.D	50	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	500 U	1300	500	ug/l	
107-02-8	Acrolein	250 U	1000	250	ug/l	
107-13-1	Acrylonitrile	150 U	500	150	ug/l	
71-43-2	Benzene	10 U	50	10	ug/l	
108-86-1	Bromobenzene	13 U	50	13	ug/l	
74-97-5	Bromochloromethane	11 U	50	11	ug/l	
75-27-4	Bromodichloromethane	10 U	50	10	ug/l	
75-25-2	Bromoform	10 U	50	10	ug/l	
104-51-8	n-Butylbenzene	13 U	50	13	ug/l	
135-98-8	sec-Butylbenzene	11 U	50	11	ug/l	
98-06-6	tert-Butylbenzene	14 U	50	14	ug/l	
108-90-7	Chlorobenzene	10 U	50	10	ug/l	
75-00-3	Chloroethane	25 U	100	25	ug/l	
67-66-3	Chloroform	11 U	50	11	ug/l	
95-49-8	o-Chlorotoluene	11 U	50	11	ug/l	
106-43-4	p-Chlorotoluene	10 U	50	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	60 U	250	60	ug/l	
75-15-0	Carbon disulfide	25 U	100	25	ug/l	
56-23-5	Carbon tetrachloride	13 U	50	13	ug/l	
75-34-3	1,1-Dichloroethane	13 U	50	13	ug/l	
75-35-4	1,1-Dichloroethylene	12 U	50	12	ug/l	
563-58-6	1,1-Dichloropropene	14 U	50	14	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	25 U	100	25	ug/l	
106-93-4	1,2-Dibromoethane	19 U	50	19	ug/l	
107-06-2	1,2-Dichloroethane	10 U	50	10	ug/l	
78-87-5	1,2-Dichloropropane	13 U	50	13	ug/l	
142-28-9	1,3-Dichloropropane	10 U	50	10	ug/l	
594-20-7	2,2-Dichloropropane	22 U	50	22	ug/l	
124-48-1	Dibromochloromethane	10 U	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	25 U	100	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	179	50	13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	10 U	50	10	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-47B		
Lab Sample ID:	F81422-4	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	10 U	50	10	ug/l	
95-50-1	o-Dichlorobenzene	13 U	50	13	ug/l	
106-46-7	p-Dichlorobenzene	12 U	50	12	ug/l	
156-60-5	trans-1,2-Dichloroethylene	18 U	50	18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	10 U	50	10	ug/l	
100-41-4	Ethylbenzene	10 U	50	10	ug/l	
591-78-6	2-Hexanone	200 U	500	200	ug/l	
87-68-3	Hexachlorobutadiene	40 U	100	40	ug/l	
98-82-8	Isopropylbenzene	10 U	50	10	ug/l	
99-87-6	p-Isopropyltoluene	11 U	50	11	ug/l	
108-10-1	4-Methyl-2-pentanone	100 U	250	100	ug/l	
74-83-9	Methyl bromide	25 U	100	25	ug/l	
74-87-3	Methyl chloride	25 U	100	25	ug/l	
74-95-3	Methylene bromide	13 U	100	13	ug/l	
75-09-2	Methylene chloride	100 U	250	100	ug/l	
78-93-3	Methyl ethyl ketone	100 U	250	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17 U	50	17	ug/l	
91-20-3	Naphthalene	50 U	250	50	ug/l	
103-65-1	n-Propylbenzene	10 U	50	10	ug/l	
100-42-5	Styrene	10 U	50	10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	10 U	50	10	ug/l	
71-55-6	1,1,1-Trichloroethane	10 U	50	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	12 U	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	11 U	50	11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	25 U	50	25	ug/l	
96-18-4	1,2,3-Trichloropropane	15 U	100	15	ug/l	
120-82-1	1,2,4-Trichlorobenzene	25 U	50	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	14 U	100	14	ug/l	
108-67-8	1,3,5-Trimethylbenzene	11 U	100	11	ug/l	
127-18-4	Tetrachloroethylene	33.3	50	13	ug/l	I
108-88-3	Toluene	10 U	50	10	ug/l	
79-01-6	Trichloroethylene	3810	50	13	ug/l	
75-69-4	Trichlorofluoromethane	25 U	100	25	ug/l	
75-01-4	Vinyl chloride	12.5	50	11	ug/l	I
108-05-4	Vinyl Acetate	100 U	500	100	ug/l	
	m,p-Xylene	16 U	100	16	ug/l	
95-47-6	o-Xylene	10 U	50	10	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-47B		
Lab Sample ID:	F81422-4	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-47B		
Lab Sample ID:	F81422-4	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	19.9	2.0	1.0	mg/l	1	04/11/11 22:41	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-47B		
Lab Sample ID:	F81422-4F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	28.2	1.0	0.24	mg/l	1	04/29/11 21:24	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-12B		
Lab Sample ID:	F81422-5	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075040.D	1	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.4	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.88	1.0	0.26	ug/l	I
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW33		
Lab Sample ID:	F81422-6	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075041.D	1	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW33		
Lab Sample ID:	F81422-6	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW33		
Lab Sample ID:	F81422-6	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW33		
Lab Sample ID:	F81422-6	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	476	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	2.3 I	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-49B		
Lab Sample ID:	F81422-7	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075052.D	1	04/21/11	AJ	n/a	n/a	VB3086
Run #2	B075042.D	5	04/21/11	AJ	n/a	n/a	VB3086

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.21	1.0	0.20	ug/l	I
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	4.8	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	10.6	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-49B		
Lab Sample ID:	F81422-7	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.91	1.0	0.25	ug/l	I
106-46-7	p-Dichlorobenzene	2.9	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	5.5	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	178 [a]	5.0	1.3	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	1.4	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-49B		
Lab Sample ID:	F81422-7	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	110%	76-127%
2037-26-5	Toluene-D8	96%	95%	86-112%
460-00-4	4-Bromofluorobenzene	101%	99%	84-120%

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-49B		
Lab Sample ID:	F81422-7	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	21.4	2.0	1.0	mg/l	1	04/11/11 23:31	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-49B		
Lab Sample ID:	F81422-7F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	25.0	1.0	0.24	mg/l	1	04/29/11 21:39	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP01A		
Lab Sample ID:	F81422-8	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075043.D	1	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	3.1	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	1.6	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.0	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP01A		
Lab Sample ID:	F81422-8	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	3.4	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP01A		
Lab Sample ID:	F81422-8	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-18B		
Lab Sample ID:	F81422-9	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075046.D	5	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	50 U	130	50	ug/l	
107-02-8	Acrolein	25 U	100	25	ug/l	
107-13-1	Acrylonitrile	15 U	50	15	ug/l	
71-43-2	Benzene	1.0 U	5.0	1.0	ug/l	
108-86-1	Bromobenzene	1.3 U	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	1.1 U	5.0	1.1	ug/l	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/l	
75-25-2	Bromoform	1.0 U	5.0	1.0	ug/l	
104-51-8	n-Butylbenzene	1.3 U	5.0	1.3	ug/l	
135-98-8	sec-Butylbenzene	1.1 U	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	1.4 U	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	1.7	5.0	1.0	ug/l	I
75-00-3	Chloroethane	2.5 U	10	2.5	ug/l	
67-66-3	Chloroform	1.1 U	5.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	1.1 U	5.0	1.1	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	6.0 U	25	6.0	ug/l	
75-15-0	Carbon disulfide	2.5 U	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	1.3 U	5.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	1.3 U	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethylene	1.6	5.0	1.2	ug/l	I
563-58-6	1,1-Dichloropropene	1.4 U	5.0	1.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	10	2.5	ug/l	
106-93-4	1,2-Dibromoethane	1.9 U	5.0	1.9	ug/l	
107-06-2	1,2-Dichloroethane	1.0 U	5.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	1.3 U	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.2 U	5.0	2.2	ug/l	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	2.5 U	10	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethylene	218	5.0	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-18B		
Lab Sample ID:	F81422-9	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	1.0 U	5.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	1.3 U	5.0	1.3	ug/l	
106-46-7	p-Dichlorobenzene	1.2 U	5.0	1.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.8 U	5.0	1.8	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	20 U	50	20	ug/l	
87-68-3	Hexachlorobutadiene	4.0 U	10	4.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.1 U	5.0	1.1	ug/l	
108-10-1	4-Methyl-2-pentanone	10 U	25	10	ug/l	
74-83-9	Methyl bromide	2.5 U	10	2.5	ug/l	
74-87-3	Methyl chloride	2.5 U	10	2.5	ug/l	
74-95-3	Methylene bromide	1.3 U	10	1.3	ug/l	
75-09-2	Methylene chloride	10 U	25	10	ug/l	
78-93-3	Methyl ethyl ketone	10 U	25	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	5.0	1.7	ug/l	
91-20-3	Naphthalene	5.0 U	25	5.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	1.0 U	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.0 U	5.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	1.1 U	5.0	1.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	1.5 U	10	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	10	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.1 U	10	1.1	ug/l	
127-18-4	Tetrachloroethylene	1.3 U	5.0	1.3	ug/l	
108-88-3	Toluene	1.3	5.0	1.0	ug/l	I
79-01-6	Trichloroethylene	4.1	5.0	1.3	ug/l	I
75-69-4	Trichlorofluoromethane	2.5 U	10	2.5	ug/l	
75-01-4	Vinyl chloride	281	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	10 U	50	10	ug/l	
	m,p-Xylene	1.6 U	10	1.6	ug/l	
95-47-6	o-Xylene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-18B		
Lab Sample ID:	F81422-9	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-18B		
Lab Sample ID:	F81422-9	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	815	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	19.3	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-18B		
Lab Sample ID:	F81422-9	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	11.5	5.0	2.5	mg/l	1	04/19/11	CC	SM19 2320B
Chloride	12.0	2.0	1.0	mg/l	1	04/09/11 10:13	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.11	0.10	0.050	mg/l	1	04/11/11 14:53	TC	EPA 350.1
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	04/09/11 10:13	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/09/11 10:13	CC	EPA 300/SW846 9056A
Phosphate, Ortho	1.3	0.50	0.10	mg/l	5	04/09/11 10:30	LT	EPA 365.3
Sulfate	12.5	2.0	1.0	mg/l	1	04/09/11 10:13	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-18B		
Lab Sample ID:	F81422-9F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	26.8	2.0	0.47	mg/l	2	05/01/11 02:09	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-51B		
Lab Sample ID:	F81422-10	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075047.D	2	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	20 U	50	20	ug/l	
107-02-8	Acrolein	10 U	40	10	ug/l	
107-13-1	Acrylonitrile	6.0 U	20	6.0	ug/l	
71-43-2	Benzene	0.40 U	2.0	0.40	ug/l	
108-86-1	Bromobenzene	0.50 U	2.0	0.50	ug/l	
74-97-5	Bromochloromethane	0.44 U	2.0	0.44	ug/l	
75-27-4	Bromodichloromethane	0.40 U	2.0	0.40	ug/l	
75-25-2	Bromoform	0.40 U	2.0	0.40	ug/l	
104-51-8	n-Butylbenzene	0.52 U	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	0.44 U	2.0	0.44	ug/l	
98-06-6	tert-Butylbenzene	0.54 U	2.0	0.54	ug/l	
108-90-7	Chlorobenzene	1.1	2.0	0.40	ug/l	I
75-00-3	Chloroethane	1.0 U	4.0	1.0	ug/l	
67-66-3	Chloroform	0.44 U	2.0	0.44	ug/l	
95-49-8	o-Chlorotoluene	0.44 U	2.0	0.44	ug/l	
106-43-4	p-Chlorotoluene	0.40 U	2.0	0.40	ug/l	
110-75-8	2-Chloroethyl vinyl ether	2.4 U	10	2.4	ug/l	
75-15-0	Carbon disulfide	1.0 U	4.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	2.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	2.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	0.46 U	2.0	0.46	ug/l	
563-58-6	1,1-Dichloropropene	0.56 U	2.0	0.56	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	4.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	0.74 U	2.0	0.74	ug/l	
107-06-2	1,2-Dichloroethane	0.40 U	2.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	0.40 U	2.0	0.40	ug/l	
594-20-7	2,2-Dichloropropane	0.88 U	2.0	0.88	ug/l	
124-48-1	Dibromochloromethane	0.40 U	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	4.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	168	2.0	0.52	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.40 U	2.0	0.40	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-51B		
Lab Sample ID:	F81422-10	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.40 U	2.0	0.40	ug/l	
95-50-1	o-Dichlorobenzene	0.50 U	2.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	0.46 U	2.0	0.46	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.70 U	2.0	0.70	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.40 U	2.0	0.40	ug/l	
100-41-4	Ethylbenzene	0.40 U	2.0	0.40	ug/l	
591-78-6	2-Hexanone	8.0 U	20	8.0	ug/l	
87-68-3	Hexachlorobutadiene	1.6 U	4.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.40 U	2.0	0.40	ug/l	
99-87-6	p-Isopropyltoluene	0.42 U	2.0	0.42	ug/l	
108-10-1	4-Methyl-2-pentanone	4.0 U	10	4.0	ug/l	
74-83-9	Methyl bromide	1.0 U	4.0	1.0	ug/l	
74-87-3	Methyl chloride	1.0 U	4.0	1.0	ug/l	
74-95-3	Methylene bromide	0.50 U	4.0	0.50	ug/l	
75-09-2	Methylene chloride	4.0 U	10	4.0	ug/l	
78-93-3	Methyl ethyl ketone	4.0 U	10	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.68 U	2.0	0.68	ug/l	
91-20-3	Naphthalene	2.0 U	10	2.0	ug/l	
103-65-1	n-Propylbenzene	0.40 U	2.0	0.40	ug/l	
100-42-5	Styrene	0.40 U	2.0	0.40	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.40 U	2.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	0.40 U	2.0	0.40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.46 U	2.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	0.44 U	2.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	0.60 U	4.0	0.60	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.54 U	4.0	0.54	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.42 U	4.0	0.42	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	2.0	0.50	ug/l	
108-88-3	Toluene	6.7	2.0	0.40	ug/l	
79-01-6	Trichloroethylene	0.56	2.0	0.52	ug/l	I
75-69-4	Trichlorofluoromethane	1.0 U	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	7.0	2.0	0.44	ug/l	
108-05-4	Vinyl Acetate	4.0 U	20	4.0	ug/l	
	m,p-Xylene	0.64 U	4.0	0.64	ug/l	
95-47-6	o-Xylene	0.40 U	2.0	0.40	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-51B		
Lab Sample ID:	F81422-10	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-51B		
Lab Sample ID:	F81422-10	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	1.3 I	2.0	1.0	mg/l	1	04/11/11 23:48	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-51B		
Lab Sample ID:	F81422-10F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	23.6	1.0	0.24	mg/l	1	04/29/11 22:43	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP02A		
Lab Sample ID:	F81422-11	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075048.D	5	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	50 U	130	50	ug/l	
107-02-8	Acrolein	25 U	100	25	ug/l	
107-13-1	Acrylonitrile	15 U	50	15	ug/l	
71-43-2	Benzene	1.0 U	5.0	1.0	ug/l	
108-86-1	Bromobenzene	1.3 U	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	1.1 U	5.0	1.1	ug/l	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/l	
75-25-2	Bromoform	1.0 U	5.0	1.0	ug/l	
104-51-8	n-Butylbenzene	1.3 U	5.0	1.3	ug/l	
135-98-8	sec-Butylbenzene	1.1 U	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	1.4 U	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	2.8	5.0	1.0	ug/l	I
75-00-3	Chloroethane	2.5 U	10	2.5	ug/l	
67-66-3	Chloroform	1.1 U	5.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	1.1 U	5.0	1.1	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	6.0 U	25	6.0	ug/l	
75-15-0	Carbon disulfide	2.5 U	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	1.3 U	5.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	1.3 U	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethylene	1.2 U	5.0	1.2	ug/l	
563-58-6	1,1-Dichloropropene	1.4 U	5.0	1.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	10	2.5	ug/l	
106-93-4	1,2-Dibromoethane	1.9 U	5.0	1.9	ug/l	
107-06-2	1,2-Dichloroethane	1.0 U	5.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	1.3 U	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.2 U	5.0	2.2	ug/l	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	2.5 U	10	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethylene	242	5.0	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP02A		
Lab Sample ID:	F81422-11	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	1.0 U	5.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	1.3 U	5.0	1.3	ug/l	
106-46-7	p-Dichlorobenzene	1.2 U	5.0	1.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.8 U	5.0	1.8	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	20 U	50	20	ug/l	
87-68-3	Hexachlorobutadiene	4.0 U	10	4.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.1 U	5.0	1.1	ug/l	
108-10-1	4-Methyl-2-pentanone	10 U	25	10	ug/l	
74-83-9	Methyl bromide	2.5 U	10	2.5	ug/l	
74-87-3	Methyl chloride	2.5 U	10	2.5	ug/l	
74-95-3	Methylene bromide	1.3 U	10	1.3	ug/l	
75-09-2	Methylene chloride	10 U	25	10	ug/l	
78-93-3	Methyl ethyl ketone	10 U	25	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	5.0	1.7	ug/l	
91-20-3	Naphthalene	5.0 U	25	5.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	1.0 U	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.0 U	5.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	1.1 U	5.0	1.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	1.5 U	10	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	10	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.1 U	10	1.1	ug/l	
127-18-4	Tetrachloroethylene	1.3 U	5.0	1.3	ug/l	
108-88-3	Toluene	1.0 U	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	20.5	5.0	1.3	ug/l	
75-69-4	Trichlorofluoromethane	2.5 U	10	2.5	ug/l	
75-01-4	Vinyl chloride	2.7	5.0	1.1	ug/l	I
108-05-4	Vinyl Acetate	10 U	50	10	ug/l	
	m,p-Xylene	1.6 U	10	1.6	ug/l	
95-47-6	o-Xylene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP02A		
Lab Sample ID:	F81422-11	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP02A		
Lab Sample ID:	F81422-11	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	523	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	1.0 U	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP02A		
Lab Sample ID:	F81422-11	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	6.7	5.0	2.5	mg/l	1	04/19/11	CC	SM19 2320B
Chloride	18.8	2.0	1.0	mg/l	1	04/09/11 10:30	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.050 U	0.10	0.050	mg/l	1	04/11/11 14:54	TC	EPA 350.1
Nitrogen, Nitrate	0.096 I	0.10	0.050	mg/l	1	04/09/11 10:30	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/09/11 10:30	CC	EPA 300/SW846 9056A
Phosphate, Ortho	0.058 I	0.10	0.020	mg/l	1	04/09/11 10:30	LT	EPA 365.3
Sulfate	4.9	2.0	1.0	mg/l	1	04/09/11 10:30	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-DP02A		
Lab Sample ID:	F81422-11F	**Date Sampled:**	04/07/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	12.1	1.0	0.24	mg/l	1	04/29/11 23:01	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW34		
Lab Sample ID:	F81422-12	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075049.D	1	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW34		
Lab Sample ID:	F81422-12	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW34		
Lab Sample ID:	F81422-12	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW34		
Lab Sample ID:	F81422-12	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	486	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	4.0 I	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	F81422-13	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B075050.D	5	04/21/11	AJ	n/a	n/a	VB3086
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	50 U	130	50	ug/l	
107-02-8	Acrolein	25 U	100	25	ug/l	
107-13-1	Acrylonitrile	15 U	50	15	ug/l	
71-43-2	Benzene	1.0 U	5.0	1.0	ug/l	
108-86-1	Bromobenzene	1.3 U	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	1.1 U	5.0	1.1	ug/l	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/l	
75-25-2	Bromoform	1.0 U	5.0	1.0	ug/l	
104-51-8	n-Butylbenzene	1.3 U	5.0	1.3	ug/l	
135-98-8	sec-Butylbenzene	1.1 U	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	1.4 U	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	3.6	5.0	1.0	ug/l	I
75-00-3	Chloroethane	2.5 U	10	2.5	ug/l	
67-66-3	Chloroform	1.1 U	5.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	1.1 U	5.0	1.1	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	6.0 U	25	6.0	ug/l	
75-15-0	Carbon disulfide	2.5 U	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	1.3 U	5.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	1.3 U	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethylene	1.2 U	5.0	1.2	ug/l	
563-58-6	1,1-Dichloropropene	1.4 U	5.0	1.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	10	2.5	ug/l	
106-93-4	1,2-Dibromoethane	1.9 U	5.0	1.9	ug/l	
107-06-2	1,2-Dichloroethane	1.0 U	5.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	1.3 U	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.2 U	5.0	2.2	ug/l	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	2.5 U	10	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethylene	255	5.0	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	F81422-13	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	1.0 U	5.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	1.3 U	5.0	1.3	ug/l	
106-46-7	p-Dichlorobenzene	1.2 U	5.0	1.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.8 U	5.0	1.8	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	20 U	50	20	ug/l	
87-68-3	Hexachlorobutadiene	4.0 U	10	4.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.1 U	5.0	1.1	ug/l	
108-10-1	4-Methyl-2-pentanone	10 U	25	10	ug/l	
74-83-9	Methyl bromide	2.5 U	10	2.5	ug/l	
74-87-3	Methyl chloride	2.5 U	10	2.5	ug/l	
74-95-3	Methylene bromide	1.3 U	10	1.3	ug/l	
75-09-2	Methylene chloride	10 U	25	10	ug/l	
78-93-3	Methyl ethyl ketone	10 U	25	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	5.0	1.7	ug/l	
91-20-3	Naphthalene	5.0 U	25	5.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	1.0 U	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.0 U	5.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	1.1 U	5.0	1.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	1.5 U	10	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	10	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.1 U	10	1.1	ug/l	
127-18-4	Tetrachloroethylene	1.3 U	5.0	1.3	ug/l	
108-88-3	Toluene	1.0 U	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	25.1	5.0	1.3	ug/l	
75-69-4	Trichlorofluoromethane	2.5 U	10	2.5	ug/l	
75-01-4	Vinyl chloride	2.0	5.0	1.1	ug/l	I
108-05-4	Vinyl Acetate	10 U	50	10	ug/l	
	m,p-Xylene	1.6 U	10	1.6	ug/l	
95-47-6	o-Xylene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP2		
Lab Sample ID:	F81422-13	**Date Sampled:**	04/07/11
Matrix:	AQ - Ground Water	**Date Received:**	04/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

F81422

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:		07-71009/2_4/7/11 Shipped By: Tracking #:

	Sample ID	Date	Time	Matrix	Method(s)	# Cont	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.
1	OLD-OU2-42B ✓	04/07/2011	11:05 am	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;None	2 week	
2	OLD-OU2-43B ✓	04/07/2011	11:59 am	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;None	2 week	
3	OLD-OU2-SW32 ✓	04/07/2011	12:02 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
4	OLD-OU2-47B ✓	04/07/2011	12:55 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;None	2 week	
5	OLD-OU2-12B ✓	04/07/2011	01:03 pm	WG	Specific VOCs	3	CG	40 ml	HCL	2 week	
6	OLD-OU2-SW33 ✓	04/07/2011	01:24 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
7	OLD-OU2-49B ✓	04/07/2011	01:42 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;None	2 week	
8	OLD-OU2-DP01A ✓	04/07/2011	02:21 pm	WG	VOCs	3	CG	40 ml	HCL	2 week	
9	OLD-OU2-18B ✓	04/07/2011	02:43 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	8	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO3;None	2 week	
10	OLD-OU2-51B ✓	04/07/2011	03:06 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;Other;None	2 week	
11	OLD-OU2-DP02A ✓	04/07/2011	03:44 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO3;None	2 week	
12	OLD-OU2-SW34 ✓	04/07/2011	03:47 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
	MS ✓	04/07/2011	05:27 pm	WG	Sulfate VOCs	4	CG;PE	40 ml;500 ml	HCL;None	2 week	
13	DUP2 ✓	04/07/2011	05:29 pm	WG	Sulfate VOCs	4	CG;PE	40 ml;500 ml	HCL;None	2 week	

Client Comments / Instructions	Lab Comments / Receipt Conditions

Sampler Name: _____

Sampler Signature:

Date Signed: 04/07/2011

F81422: Chain of Custody
Page 1 of 4

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:		07-71009/2_4/7/11 Shipped By: Tracking #:

Sample ID	Date	Time	Matrix	Method(s)	# Cont.	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.

Relinquished By	Date	Time	Accepted By	Date	Time
[illegible]	4-8-11	1035	[illegible]	4-8-11	1035
[illegible]	4-8-11	1055	[illegible]	04/08/11	0800

Sampler Name:

Sampler Signature:

Date Signed: 04/07/2011

3.4

F81422: Chain of Custody
Page 2 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81422 CLIENT: BFA PROJECT: GW Sampling

DATE/TIME RECEIVED: 04/09/11 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [X] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Samp #1 received. 1 set of vials (HCL) w/ no labels extra was bagged per sample, no bottles received ID of MS 04/07/11 5:27 pm
Sample #13 coc requests sulfate but received metals poly instead

TECHNICIAN SIGNATURE/DATE E.T. 04.09.11 REVIEWER SIGNATURE/DATE

NF 12/10 receipt confirmation 122910.xls

F81422: Chain of Custody
Page 3 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81422 CLIENT: BFA PROJECT: GW Sampling

DATE/TIME RECEIVED: 040911 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [X] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: Samp #1 received 1 set of vials (HCL) w/ no labels extra was bagged per sample, no bottles received ID of MS 04/07/11 5:27 pm
Sample #13 coc requests sulfate but received metals poly instead

TECHNICIAN SIGNATURE/DATE E.T. 04.09.11 REVIEWER SIGNATURE/DATE KC 4-9-11

NF 12/10

receipt confirmation 122910.xls

F81422: Chain of Custody
Page 4 of 4

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3086-MB	B075031.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3086-MB	B075031.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3086-MB	B075031.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	114%	76-127%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	97%	84-120%

Blank Spike Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3086-BS	B075030.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	155	124	59-134
107-02-8	Acrolein	125	85.2	68	33-157
107-13-1	Acrylonitrile	125	137	110	62-124
71-43-2	Benzene	25	27.3	109	83-124
108-86-1	Bromobenzene	25	24.9	100	83-115
74-97-5	Bromochloromethane	25	25.5	102	78-112
75-27-4	Bromodichloromethane	25	28.9	116	76-116
75-25-2	Bromoform	25	23.2	93	68-128
104-51-8	n-Butylbenzene	25	26.4	106	84-124
135-98-8	sec-Butylbenzene	25	26.7	107	86-127
98-06-6	tert-Butylbenzene	25	30.6	122	83-126
108-90-7	Chlorobenzene	25	25.9	104	87-115
75-00-3	Chloroethane	25	30.7	123	54-166
67-66-3	Chloroform	25	28.0	112	85-123
95-49-8	o-Chlorotoluene	25	25.7	103	84-121
106-43-4	p-Chlorotoluene	25	26.6	106	84-120
110-75-8	2-Chloroethyl vinyl ether	125	114	91	63-125
75-15-0	Carbon disulfide	25	28.4	114	67-147
56-23-5	Carbon tetrachloride	25	32.0	128	74-139
75-34-3	1,1-Dichloroethane	25	28.9	116	82-127
75-35-4	1,1-Dichloroethylene	25	30.1	120	75-133
563-58-6	1,1-Dichloropropene	25	30.7	123	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	22.1	88	61-118
106-93-4	1,2-Dibromoethane	25	25.6	102	80-115
107-06-2	1,2-Dichloroethane	25	28.9	116	76-122
78-87-5	1,2-Dichloropropane	25	26.4	106	81-120
142-28-9	1,3-Dichloropropane	25	24.8	99	81-113
594-20-7	2,2-Dichloropropane	25	31.8	127	77-138
124-48-1	Dibromochloromethane	25	27.2	109	74-116
75-71-8	Dichlorodifluoromethane	25	29.3	117	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.8	107	81-114
10061-01-5	cis-1,3-Dichloropropene	25	27.2	109	83-119
541-73-1	m-Dichlorobenzene	25	25.6	102	86-115
95-50-1	o-Dichlorobenzene	25	24.8	99	85-115
106-46-7	p-Dichlorobenzene	25	25.2	101	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.7	115	82-126

Blank Spike Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3086-BS	B075030.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	28.2	113	87-123
100-41-4	Ethylbenzene	25	26.7	107	87-118
591-78-6	2-Hexanone	125	127	102	58-125
87-68-3	Hexachlorobutadiene	25	27.8	111	71-133
98-82-8	Isopropylbenzene	25	30.1	120	87-131
99-87-6	p-Isopropyltoluene	25	27.0	108	83-125
108-10-1	4-Methyl-2-pentanone	125	121	97	62-125
74-83-9	Methyl bromide	25	29.2	117	55-151
74-87-3	Methyl chloride	25	30.6	122	55-173
74-95-3	Methylene bromide	25	27.5	110	81-116
75-09-2	Methylene chloride	25	27.6	110	69-125
78-93-3	Methyl ethyl ketone	125	144	115	61-127
1634-04-4	Methyl Tert Butyl Ether	25	26.6	106	75-116
91-20-3	Naphthalene	25	22.2	89	59-125
103-65-1	n-Propylbenzene	25	26.8	107	86-125
100-42-5	Styrene	25	26.8	107	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	27.8	111	81-119
71-55-6	1,1,1-Trichloroethane	25	30.5	122	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	22.8	91	71-120
79-00-5	1,1,2-Trichloroethane	25	24.6	98	80-114
87-61-6	1,2,3-Trichlorobenzene	25	24.0	96	64-126
96-18-4	1,2,3-Trichloropropane	25	23.7	95	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.3	101	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.5	102	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.7	103	83-123
127-18-4	Tetrachloroethylene	25	27.9	112	80-131
108-88-3	Toluene	25	26.2	105	86-116
79-01-6	Trichloroethylene	25	28.5	114	85-124
75-69-4	Trichlorofluoromethane	25	37.3	149	66-156
75-01-4	Vinyl chloride	25	25.8	103	57-153
108-05-4	Vinyl Acetate	125	144	115	38-159
	m,p-Xylene	50	54.4	109	86-121
95-47-6	o-Xylene	25	27.1	108	83-121

Blank Spike Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3086-BS	B075030.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	111%	76-127%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81422-5MS	B075044.D	1	04/21/11	AJ	n/a	n/a	VB3086
F81422-5MSD	B075045.D	1	04/21/11	AJ	n/a	n/a	VB3086
F81422-5	B075040.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Compound	F81422-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	130	104	102	82	24*	59-134/14
107-02-8	Acrolein	20 U		125	99.9	80	66.4	53	40*	33-157/21
107-13-1	Acrylonitrile	10 U		125	175	140*	135	108	26*	62-124/13
71-43-2	Benzene	2.3		25	36.2	136*	25.9	94	33*	83-124/11
108-86-1	Bromobenzene	1.0 U		25	29.3	117*	21.8	87	29*	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	31.9	128*	22.2	89	36*	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	34.2	137*	24.7	99	32*	76-116/10
75-25-2	Bromoform	1.0 U		25	24.4	98	19.3	77	23*	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	32.4	130*	23.9	96	30*	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	32.4	130*	24.0	96	30*	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	35.8	143*	23.3	93	42*	83-126/10
108-90-7	Chlorobenzene	2.0		25	33.2	125*	24.4	90	31*	87-115/9
75-00-3	Chloroethane	2.0 U		25	30.9	124	22.1	88	33*	54-166/20
67-66-3	Chloroform	1.0 U		25	33.4	134*	24.1	96	32*	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	30.4	122*	22.7	91	29*	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	31.5	126*	23.7	95	28*	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	31.9	128	22.6	90	34*	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	34.8	139	24.9	100	33*	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	34.7	139*	25.4	102	31*	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	38.2	153*	27.6	110	32*	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	36.3	145*	26.0	104	33*	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	26.8	107	21.7	87	21*	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	30.0	120*	23.0	92	26*	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	34.5	138*	25.9	104	28*	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	33.2	133*	23.9	96	33*	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	30.2	121*	22.5	90	29*	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	36.1	144*	25.8	103	33*	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	30.7	123*	23.3	93	27*	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	34.2	137	26.2	105	26*	34-158/22
156-59-2	cis-1,2-Dichloroethylene	2.4		25	35.2	131*	25.4	92	32*	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	31.3	125*	22.8	91	31*	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	30.3	121*	22.7	91	29*	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	30.1	120*	22.5	90	29*	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	30.0	120*	21.8	87	32*	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	35.7	143*	25.2	101	34*	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81422-5MS	B075044.D	1	04/21/11	AJ	n/a	n/a	VB3086
F81422-5MSD	B075045.D	1	04/21/11	AJ	n/a	n/a	VB3086
F81422-5	B075040.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Compound	F81422-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	30.3	121	23.0	92	27*	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	31.2	125*	22.9	92	31*	87-118/10
591-78-6	2-Hexanone	10 U		125	136	109	107	86	24*	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	28.4	114	21.7	87	27*	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	35.4	142*	25.8	103	31*	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	32.1	128*	23.7	95	30*	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	159	127*	123	98	26*	62-125/13
74-83-9	Methyl bromide	2.0 U		25	25.6	102	19.4	78	28*	55-151/21
74-87-3	Methyl chloride	2.0 U		25	32.1	128	24.1	96	28*	55-173/22
74-95-3	Methylene bromide	2.0 U		25	34.4	138*	24.9	100	32*	81-116/10
75-09-2	Methylene chloride	5.0 U		25	34.1	136*	24.8	99	32*	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	146	117	113	90	25*	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	31.0	124*	22.8	91	30*	75-116/10
91-20-3	Naphthalene	5.0 U		25	26.8	107	21.3	85	23*	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	32.6	130*	24.4	98	29*	86-125/10
100-42-5	Styrene	1.0 U		25	30.0	120*	23.0	92	26*	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	31.1	124*	22.3	89	33*	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	35.8	143*	25.5	102	34*	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	29.9	120	22.9	92	27*	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	31.3	125*	22.6	90	32*	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	26.1	104	20.8	83	23*	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	29.2	117*	24.1	96	19*	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	27.9	112	21.3	85	27*	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	30.2	121*	22.5	90	29*	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	29.9	120	22.2	89	30*	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	31.3	125	23.6	94	28*	80-131/12
108-88-3	Toluene	1.0 U		25	31.0	124*	23.0	92	30*	86-116/10
79-01-6	Trichloroethylene	0.88	I	25	35.0	136*	25.1	97	33*	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	41.5	166*	30.9	124	29*	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	26.4	106	20.2	81	27*	57-153/22
108-05-4	Vinyl Acetate	10 U		125	181	145	138	110	27*	38-159/11
	m,p-Xylene	2.0 U		50	63.2	126*	46.6	93	30*	86-121/10
95-47-6	o-Xylene	1.0 U		25	31.2	125*	23.2	93	29*	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81422
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81422-5MS	B075044.D	1	04/21/11	AJ	n/a	n/a	VB3086
F81422-5MSD	B075045.D	1	04/21/11	AJ	n/a	n/a	VB3086
F81422-5	B075040.D	1	04/21/11	AJ	n/a	n/a	VB3086

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81422-1, F81422-2, F81422-3, F81422-4, F81422-5, F81422-6, F81422-7, F81422-8, F81422-9, F81422-10, F81422-11, F81422-12, F81422-13

CAS No.	Surrogate Recoveries	MS	MSD	F81422-5	Limits
1868-53-7	Dibromofluoromethane	106%	104%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	110%	112%	76-127%
2037-26-5	Toluene-D8	95%	95%	97%	86-112%
460-00-4	4-Bromofluorobenzene	99%	101%	101%	84-120%

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	21.2	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1	0.10	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20407: F81422-3, F81422-6, F81422-9, F81422-11, F81422-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/20/11					04/20/11	
Metal	F81494-1 Original	DUP	RPD	QC Limits	F81494-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	105	147	33.3 (a)	0-20	105	24500	26000	93.8	80-120
Lead									
Magnesium									
Manganese	5.6	5.9	5.2	0-20	5.6	504	500	99.7	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP20407: F81422-3, F81422-6, F81422-9, F81422-11, F81422-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/20/11

Metal	F81494-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	105	24100	26000	92.3	1.6	20
Lead						
Magnesium						
Manganese	5.6	490	500	96.9	2.8	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP20407: F81422-3, F81422-6, F81422-9, F81422-11, F81422-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	25500	26000	98.1	80-120
Lead				
Magnesium				
Manganese	516	500	103.2	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20407: F81422-3, F81422-6, F81422-9, F81422-11, F81422-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	F81494-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	105	0.00	100.0(a)	0-10
Lead				
Magnesium				
Manganese	5.60	5.60	0.0	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20407: F81422-3, F81422-6, F81422-9, F81422-11, F81422-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	Sample ml	Final ml	F81494-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	104.6	102.508	2961	0.2	150	3000	95.3	80-120
Lead										
Magnesium										
Manganese	9.8	10	5.6	5.488	54.5	0.2	2.5	50	98.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20407: F81422-3, F81422-6, F81422-9, F81422-11, F81422-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44185	5.0	0.0	mg/l	250	252	101.0	90-113%
Chloride	GP16793/GN44052	2.0	0.0	mg/l	50	51.9	103.8	90-110%
Chloride	GP16803/GN44068	2.0	0.0	mg/l	50	52.5	105.0	90-110%
Nitrogen, Ammonia	GP16800/GN44075	0.10	0.0	mg/l	2.5	2.57	102.8	90-110%
Nitrogen, Nitrate	GP16793/GN44052	0.10	0.0	mg/l	2.5	2.41	96.4	90-110%
Nitrogen, Nitrite	GP16793/GN44052	0.10	0.0	mg/l	2.5	2.50	100.0	90-110%
Phosphate, Ortho	GP16789/GN44046	0.10	0.0	mg/l	0.300	0.30	100.0	83-116%
Sulfate	GP16793/GN44052	2.0	0.0	mg/l	50	52.1	104.2	90-110%
Sulfate	GP16803/GN44068	2.0	0.0	mg/l	50	52.6	105.2	90-110%
Total Organic Carbon	GP16871/GN44322	1.0	0.0	mg/l	15	14.1	94.0	90-110%

Associated Samples:
Batch GN44185: F81422-11, F81422-9
Batch GP16789: F81422-11, F81422-9
Batch GP16793: F81422-11, F81422-9
Batch GP16800: F81422-11, F81422-9
Batch GP16803: F81422-1, F81422-10, F81422-2, F81422-4, F81422-7
Batch GP16871: F81422-10F, F81422-11F, F81422-1F, F81422-2F, F81422-4F, F81422-7F, F81422-9F
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44185	F81427-4	mg/l	74.9	66.3	12.2	0-20%
Chloride	GP16793/GN44052	F81422-11	mg/l	18.8	18.6	1.1	0-20%
Chloride	GP16803/GN44068	F81422-2	mg/l	13.6	13.5	0.7	0-20%
Nitrogen, Ammonia	GP16800/GN44075	F81366-5	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrate	GP16793/GN44052	F81422-11	mg/l	0.096	0.0	200.0(a)	0-20%
Nitrogen, Nitrite	GP16793/GN44052	F81422-11	mg/l	0.050 U	0.0	0.0	0-20%
Phosphate, Ortho	GP16789/GN44046	F81422-9	mg/l	1.3	1.2	4.2	0-26%
Sulfate	GP16793/GN44052	F81422-11	mg/l	4.9	4.9	0.0	0-20%
Sulfate	GP16803/GN44068	F81422-2	mg/l	20.5	20.6	0.5	0-20%
Total Organic Carbon	GP16871/GN44322	F81422-1F	mg/l	6.4	6.2	3.2	0-20%

Associated Samples:
Batch GN44185: F81422-11, F81422-9
Batch GP16789: F81422-11, F81422-9
Batch GP16793: F81422-11, F81422-9
Batch GP16800: F81422-11, F81422-9
Batch GP16803: F81422-1, F81422-10, F81422-2, F81422-4, F81422-7
Batch GP16871: F81422-10F, F81422-11F, F81422-1F, F81422-2F, F81422-4F, F81422-7F, F81422-9F
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44185	F81427-4	mg/l	74.9	250	321	98.4	90-113%
Chloride	GP16793/GN44052	F81422-11	mg/l	18.8	50	64.3	91.0	90-110%
Chloride	GP16803/GN44068	F81422-2	mg/l	13.6	50	64.1	101.0	90-110%
Nitrogen, Ammonia	GP16800/GN44075	F81366-5	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Nitrogen, Nitrate	GP16793/GN44052	F81422-11	mg/l	0.096	2.5	2.2	84.2N(a)	90-110%
Nitrogen, Nitrite	GP16793/GN44052	F81422-11	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Phosphate, Ortho	GP16789/GN44046	F81422-9	mg/l	1.3	0.300	2.6	85.5	83-116%
Sulfate	GP16793/GN44052	F81422-11	mg/l	4.9	50	52.0	94.2	90-110%
Sulfate	GP16803/GN44068	F81422-2	mg/l	20.5	50	68.9	96.8	90-110%
Total Organic Carbon	GP16871/GN44322	F81422-1F	mg/l	6.4	15	24.1	118.0N(a)	90-110%

Associated Samples:
Batch GN44185: F81422-11, F81422-9
Batch GP16789: F81422-11, F81422-9
Batch GP16793: F81422-11, F81422-9
Batch GP16800: F81422-11, F81422-9
Batch GP16803: F81422-1, F81422-10, F81422-2, F81422-4, F81422-7
Batch GP16871: F81422-10F, F81422-11F, F81422-1F, F81422-2F, F81422-4F, F81422-7F, F81422-9F
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81422
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN44185	F81427-4	mg/l	74.9	250mg/l	319	0.6	20%
Nitrogen, Ammonia	GP16800/GN44075	F81366-5	mg/l	0.050 U	2.5	2.5	0.0	20%

Associated Samples:
Batch GN44185: F81422-11, F81422-9
Batch GP16800: F81422-11, F81422-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

04/28/11

Technical Report for

BFA Environmental Consultants

NTC Orlando, Orlando, FL

07-71009/2

Accutest Job Number: F81361

Sampling Date: 04/06/11

Report to:

BFA Environmental Consultants
1230 Hillcrest Street Suite 100
Orlando, FL 32803
jwillis@bfaenvironmental.com

ATTN: John Willis

Total number of pages in report: **54**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Sample Summary

BFA Environmental Consultants

Job No: F81361

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81361-1	04/06/11	11:30	JW	04/07/11	AQ	Ground Water	OLD-OU2-02A
F81361-1F	04/06/11	11:30	JW	04/07/11	AQ	Groundwater Filtered	OLD-OU2-02A
F81361-2	04/06/11	11:52	JW	04/07/11	AQ	Ground Water	OLD-OU2-29A
F81361-2F	04/06/11	11:52	JW	04/07/11	AQ	Groundwater Filtered	OLD-OU2-29A
F81361-3	04/06/11	12:31	JW	04/07/11	AQ	Ground Water	OLD-OU2-02B
F81361-3F	04/06/11	12:31	JW	04/07/11	AQ	Groundwater Filtered	OLD-OU2-02B
F81361-4	04/06/11	13:25	JW	04/07/11	AQ	Ground Water	OLD-OU2-29B
F81361-4F	04/06/11	13:25	JW	04/07/11	AQ	Groundwater Filtered	OLD-OU2-29B
F81361-5	04/06/11	13:51	JW	04/07/11	AQ	Ground Water	OLD-OU2-03A
F81361-5F	04/06/11	13:51	JW	04/07/11	AQ	Groundwater Filtered	OLD-OU2-03A
F81361-6	04/06/11	15:08	JW	04/07/11	AQ	Ground Water	OLD-OU2-03B
F81361-6F	04/06/11	15:08	JW	04/07/11	AQ	Groundwater Filtered	OLD-OU2-03B
F81361-7	04/06/11	15:12	JW	04/07/11	AQ	Ground Water	OLD-OU2-30A

Sample Summary
(continued)

BFA Environmental Consultants

Job No: F81361

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81361-8	04/06/11	15:41	JW	04/07/11	AQ	Ground Water	OLD-OU2-30B
F81361-9	04/06/11	16:52	JW	04/07/11	AQ	Trip Blank Water	TRIP BLANK

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02A		
Lab Sample ID:	F81361-1	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050417.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02A		
Lab Sample ID:	F81361-1	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	9250	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	35.1	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02A		
Lab Sample ID:	F81361-1	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	148	5.0	2.5	mg/l	1	04/12/11	CC	SM19 2320B
Chloride	30.0	2.0	1.0	mg/l	1	04/07/11 21:53	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	4.9	0.10	0.050	mg/l	1	04/11/11 14:01	TC	EPA 350.1
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	04/07/11 21:53	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/07/11 21:53	CC	EPA 300/SW846 9056A
Phosphate, Ortho	0.24	0.10	0.020	mg/l	1	04/07/11 15:00	CC	EPA 365.3
Sulfate	4.2	2.0	1.0	mg/l	1	04/07/11 21:53	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02A		
Lab Sample ID:	F81361-1F	**Date Sampled:**	04/06/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	40.1	2.0	0.47	mg/l	2	04/26/11 07:19	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29A		
Lab Sample ID:	F81361-2	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050418.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29A		
Lab Sample ID:	F81361-2	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1960	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2.8 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29A		
Lab Sample ID:	F81361-2	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	23.1	5.0	2.5	mg/l	1	04/12/11	CC	SM19 2320B
Chloride	11.5	2.0	1.0	mg/l	1	04/07/11 22:10	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.050 U	0.10	0.050	mg/l	1	04/11/11 14:02	TC	EPA 350.1
Nitrogen, Nitrate	0.094 I	0.10	0.050	mg/l	1	04/07/11 22:10	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/07/11 22:10	CC	EPA 300/SW846 9056A
Phosphate, Ortho	0.63	0.20	0.040	mg/l	2	04/07/11 15:00	CC	EPA 365.3
Sulfate	11.2	2.0	1.0	mg/l	1	04/07/11 22:10	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29A		
Lab Sample ID:	F81361-2F	**Date Sampled:**	04/06/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	14.0	1.0	0.24	mg/l	1	04/26/11 08:12	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02B		
Lab Sample ID:	F81361-3	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050419.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02B		
Lab Sample ID:	F81361-3	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	2790	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	12.7 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02B		
Lab Sample ID:	F81361-3	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	20.9	5.0	2.5	mg/l	1	04/12/11	CC	SM19 2320B
Chloride	51.1	2.0	1.0	mg/l	1	04/07/11 22:27	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.44	0.10	0.050	mg/l	1	04/11/11 14:03	TC	EPA 350.1
Nitrogen, Nitrate	0.056 I	0.10	0.050	mg/l	1	04/07/11 22:27	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/07/11 22:27	CC	EPA 300/SW846 9056A
Phosphate, Ortho	0.77	0.50	0.10	mg/l	5	04/07/11 15:00	CC	EPA 365.3
Sulfate	13.4	2.0	1.0	mg/l	1	04/07/11 22:27	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-02B		
Lab Sample ID:	F81361-3F	**Date Sampled:**	04/06/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	19.1	1.0	0.24	mg/l	1	04/26/11 08:29	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29B		
Lab Sample ID:	F81361-4	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050420.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29B		
Lab Sample ID:	F81361-4	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	2260	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	10.7 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29B		
Lab Sample ID:	F81361-4	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	21.3	5.0	2.5	mg/l	1	04/12/11	CC	SM19 2320B
Chloride	17.1	2.0	1.0	mg/l	1	04/07/11 22:44	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.30	0.10	0.050	mg/l	1	04/11/11 14:04	TC	EPA 350.1
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	04/07/11 22:44	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/07/11 22:44	CC	EPA 300/SW846 9056A
Phosphate, Ortho	1.3	0.50	0.10	mg/l	5	04/07/11 15:00	CC	EPA 365.3
Sulfate	1.0 U	2.0	1.0	mg/l	1	04/07/11 22:44	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-29B		
Lab Sample ID:	F81361-4F	**Date Sampled:**	04/06/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	10.4	1.0	0.24	mg/l	1	04/26/11 08:45	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03A		
Lab Sample ID:	F81361-5	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050421.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03A		
Lab Sample ID:	F81361-5	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6420	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	647	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03A		
Lab Sample ID:	F81361-5	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	80.8	5.0	2.5	mg/l	1	04/12/11	CC	SM19 2320B
Chloride	41.9	2.0	1.0	mg/l	1	04/07/11 23:01	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	1.7	0.10	0.050	mg/l	1	04/11/11 14:07	TC	EPA 350.1
Nitrogen, Nitrate	0.50	0.10	0.050	mg/l	1	04/07/11 23:01	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/07/11 23:01	CC	EPA 300/SW846 9056A
Phosphate, Ortho	0.082 I	0.10	0.020	mg/l	1	04/07/11 15:00	CC	EPA 365.3
Sulfate	89.3	4.0	2.0	mg/l	2	04/08/11 22:18	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03A		
Lab Sample ID:	F81361-5F	**Date Sampled:**	04/06/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	30.9	2.0	0.47	mg/l	2	04/28/11 05:28	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03B		
Lab Sample ID:	F81361-6	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050422.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03B		
Lab Sample ID:	F81361-6	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	8340	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	16.0	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03B		
Lab Sample ID:	F81361-6	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	41.6	5.0	2.5	mg/l	1	04/12/11	CC	SM19 2320B
Chloride	56.4	2.0	1.0	mg/l	1	04/07/11 23:18	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	3.9	0.10	0.050	mg/l	1	04/11/11 14:08	TC	EPA 350.1
Nitrogen, Nitrate	0.065 I	0.10	0.050	mg/l	1	04/07/11 23:18	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	04/07/11 23:18	CC	EPA 300/SW846 9056A
Phosphate, Ortho	1.0	0.50	0.10	mg/l	5	04/07/11 15:00	CC	EPA 365.3
Sulfate	22.8	2.0	1.0	mg/l	1	04/07/11 23:18	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-03B		
Lab Sample ID:	F81361-6F	**Date Sampled:**	04/06/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	13.9	1.0	0.24	mg/l	1	04/26/11 09:19	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-30A		
Lab Sample ID:	F81361-7	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050423.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-30A		
Lab Sample ID:	F81361-7	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	9240	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	26.8	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-30B		
Lab Sample ID:	F81361-8	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050424.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.36	1.0	0.20	ug/l	I
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-30B		
Lab Sample ID:	F81361-8	**Date Sampled:**	04/06/11
Matrix:	AQ - Ground Water	**Date Received:**	04/07/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	22300	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	82.2	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F81361-9	**Date Sampled:**	04/06/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/07/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0050425.D	1	04/19/11	NMC	n/a	n/a	VN2050
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

F81361

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:		07-71009/2_4/6/11 Shipped By: Tracking #:

	Sample ID	Date	Time	Matrix	Method(s)	# Cont	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.
1	OLD-OU2-02A ✓	04/06/2011	11:30 am	WG	Ammonium Biogenic Gases DOC Fe/Mn Orthophosphate, Alkalinity, Chloride, Nitrate/Nitrite, Sulfate VOCs	10	AG;CG;PE	40 ml;125 ml	H2SO4;HCL;HNO 3;None	2 week	
2	OLD-OU2-29A ✓	04/06/2011	11:52 am	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO 3;Other;None	2 week	
3	OLD-OU2-02B ✓	04/06/2011	12:31 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO 3;None	2 week	
4	OLD-OU2-29B ✓	04/06/2011	01:25 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO 3;Other;None	2 week	
5	OLD-OU2-03A ✓	04/06/2011	01:51 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO 3	2 week	
6	OLD-OU2-03B ✓	04/06/2011	03:08 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO 3	2 week	
7	OLD-OU2-30A ✓	04/06/2011	03:12 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
8	OLD-OU2-30B ✓	04/06/2011	03:41 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
	Temp Blank ✓	04/06/2011	04:51 pm	WG		2				2 week	
9	Trip Blank ✓	04/06/2011	04:52 pm	WG		2				2 week	

Client Comments / Instructions	Lab Comments / Receipt Conditions

Sampler Name: _____

Sampler Signature:

Date Signed: 04/06/2011

F81361: Chain of Custody
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F81361

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

Client Information	Project Information		Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078998608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813	Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:		07-71009/2_4/6/11 Shipped By: Tracking #:

Sample ID	Date	Time	Matrix	Method(s)	# Cont.	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.

Relinquished By	Date	Time	Accepted By	Date	Time
[signature]	4/7/11	915	[signature]	4-7-11	0915
[signature]	4-7-11	0930	[signature] ALSE	4/7/11	~~0915~~ 9:30

Sampler Name:

Sampler Signature:

Date Signed: 04/06/2011

4.2c 3.8c

F81361: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81361 CLIENT: BFA PROJECT: GW SAMPLING AT OU2

DATE/TIME RECEIVED: 04/07/11 9:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS (ACCUTEST COURIER) GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.4 3.8
- [ ] CORRECTED TEMPS: 3.8 4.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 04/07/11 REVIEWER SIGNATURE/DATE [signature] 4-7-11

NF 12/10 receipt confirmation 122910.xls

F81361: Chain of Custody

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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81361
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN2050-MB	N0050408.D	1	04/19/11	NMC	n/a	n/a	VN2050

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8, F81361-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

Blank Spike Summary

Job Number: F81361
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN2050-BS	N0050407.D	1	04/19/11	NMC	n/a	n/a	VN2050

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8, F81361-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.3	109	83-124
156-59-2	cis-1,2-Dichloroethylene	25	26.9	108	81-114
98-82-8	Isopropylbenzene	25	29.4	118	87-131
75-09-2	Methylene chloride	25	28.5	114	69-125
127-18-4	Tetrachloroethylene	25	26.0	104	80-131
79-01-6	Trichloroethylene	25	26.1	104	85-124
75-01-4	Vinyl chloride	25	25.2	101	57-153

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	76-127%
2037-26-5	Toluene-D8	96%	86-112%
460-00-4	4-Bromofluorobenzene	94%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81361
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81368-1MS	N0050429.D	1	04/19/11	NMC	n/a	n/a	VN2050
F81368-1MSD	N0050430.D	1	04/19/11	NMC	n/a	n/a	VN2050
F81368-1	N0050409.D	1	04/19/11	NMC	n/a	n/a	VN2050

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8, F81361-9

CAS No.	Compound	F81368-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	25	27.0	108	26.5	106	2	83-124/11
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	26.1	104	22.9	92	13*	81-114/10
98-82-8	Isopropylbenzene	1.0	U	25	27.7	111	27.7	111	0	87-131/10
75-09-2	Methylene chloride	5.0	U	25	30.3	121	29.7	119	2	69-125/11
127-18-4	Tetrachloroethylene	1.0	U	25	24.7	99	24.5	98	1	80-131/12
79-01-6	Trichloroethylene	1.0	U	25	25.9	104	25.9	104	0	85-124/10
75-01-4	Vinyl chloride	1.0	U	25	24.1	96	24.8	99	3	57-153/22

CAS No.	Surrogate Recoveries	MS	MSD	F81368-1	Limits
1868-53-7	Dibromofluoromethane	104%	99%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	99%	76-127%
2037-26-5	Toluene-D8	93%	94%	99%	86-112%
460-00-4	4-Bromofluorobenzene	94%	95%	93%	84-120%

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	-1.7	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1	0.0	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20375: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/14/11					04/14/11	
Metal	F81244-1 Original	DUP	RPD	QC Limits	F81244-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	444	439	1.1	0-20	444	25800	26000	97.5	80-120
Lead									
Magnesium									
Manganese	3.6	3.6	0.0	0-20	3.6	534	500	106.1	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP20375: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 04/14/11

Metal	F81244-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	444	26000	26000	98.3	0.8	20
Lead						
Magnesium						
Manganese	3.6	534	500	106.1	0.0	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP20375: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	26400	26000	101.5	80-120
Lead				
Magnesium				
Manganese	523	500	104.6	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20375: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	F81244-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	444	434	2.3	0-10
Lead				
Magnesium				
Manganese	3.60	0.00	100.0(a)	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20375: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	Sample ml	Final ml	F81244-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	444.3	435.414	3643	0.2	150	3000	106.9	80-120
Lead										
Magnesium										
Manganese	9.8	10	3.6	3.528	59.6	0.2	2.5	50	112.1	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20375: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6, F81361-7, F81361-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44071	5.0	0.0	mg/l	250	249	99.6	90-113%
Chloride	GP16778/GN44031	2.0	0.0	mg/l	50	52.4	104.8	90-110%
Nitrogen, Ammonia	GP16799/GN44074	0.10	0.0	mg/l	2.5	2.60	104.0	90-110%
Nitrogen, Nitrate	GP16778/GN44031	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrite	GP16778/GN44031	0.10	0.0	mg/l	2.5	2.60	104.0	90-110%
Phosphate, Ortho	GP16779/GN44025	0.10	0.0	mg/l	.300	0.29	97.2	83-116%
Sulfate	GP16778/GN44031	2.0	0.0	mg/l	50	53.3	106.6	90-110%
Total Organic Carbon	GP16865/GN44267	1.0	0.0	mg/l	15	14.1	94.0	90-110%

Associated Samples:
Batch GN44071: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16778: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16779: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16799: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16865: F81361-1F, F81361-2F, F81361-3F, F81361-4F, F81361-5F, F81361-6F
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44071	F81361-6	mg/l	41.6	41.0	1.4	0-20%
Chloride	GP16778/GN44031	F81361-2	mg/l	11.5	11.5	0.0	0-20%
Nitrogen, Ammonia	GP16799/GN44074	F81335-1	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrate	GP16778/GN44031	F81361-2	mg/l	0.094	0.096	2.1	0-20%
Nitrogen, Nitrite	GP16778/GN44031	F81361-2	mg/l	0.050 U	0.0	0.0	0-20%
Phosphate, Ortho	GP16779/GN44025	F81361-5	mg/l	0.082	0.089	7.9	0-26%
Sulfate	GP16778/GN44031	F81361-2	mg/l	11.2	11.4	1.8	0-20%
Total Organic Carbon	GP16865/GN44267	F81357-1	mg/l	28.6	28.0	2.1	0-20%

Associated Samples:
Batch GN44071: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16778: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16779: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16799: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16865: F81361-1F, F81361-2F, F81361-3F, F81361-4F, F81361-5F, F81361-6F
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44071	F81361-6	mg/l	41.6	250	289	99.0	90-113%
Chloride	GP16778/GN44031	F81361-2	mg/l	11.5	50	56.3	89.6N(a)	90-110%
Nitrogen, Ammonia	GP16799/GN44074	F81335-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrate	GP16778/GN44031	F81361-2	mg/l	0.094	2.5	2.1	80.2N(a)	90-110%
Nitrogen, Nitrite	GP16778/GN44031	F81361-2	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Phosphate, Ortho	GP16779/GN44025	F81361-5	mg/l	0.082	.300	0.36	90.8	83-116%
Sulfate	GP16778/GN44031	F81361-2	mg/l	11.2	50	55.5	88.6N(a)	90-110%
Total Organic Carbon	GP16865/GN44267	F81357-1	mg/l	28.6	15	35.2	44.0N(a)	90-110%

Associated Samples:
Batch GN44071: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16778: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16779: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16799: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16865: F81361-1F, F81361-2F, F81361-3F, F81361-4F, F81361-5F, F81361-6F
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81361
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN44071	F81361-6	mg/l	41.6	250	290	0.3	20%
Nitrogen, Ammonia	GP16799/GN44074	F81335-1	mg/l	0.050 U	2.5	2.4	0.0	20%

Associated Samples:
Batch GN44071: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
Batch GP16799: F81361-1, F81361-2, F81361-3, F81361-4, F81361-5, F81361-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

04/18/11

Technical Report for

BFA Environmental Consultants

NTC Orlando, Orlando, FL

07-71009/2

Accutest Job Number: F81309

Sampling Date: 04/01/11

Report to:

BFA Environmental Consultants
1230 Hillcrest Street Suite 100
Orlando, FL 32803
jwillis@bfaenvironmental.com

ATTN: John Willis

Total number of pages in report: **54**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

BFA Environmental Consultants

Job No: F81309

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81309-1	04/01/11	12:08	JW	04/06/11	AQ	Ground Water	OLD-OU2-27A
F81309-2	04/01/11	12:48	JW	04/06/11	AQ	Ground Water	OLD-OU2-27B
F81309-3	04/01/11	13:57	JW	04/06/11	AQ	Ground Water	OLD-OU2-33A
F81309-4	04/01/11	14:31	JW	04/06/11	AQ	Ground Water	OLD-OU2-28B
F81309-5	04/01/11	14:34	JW	04/06/11	AQ	Ground Water	OLD-OU2-33B
F81309-6	04/01/11	15:17	JW	04/06/11	AQ	Ground Water	OLD-OU2-37B
F81309-7	04/01/11	15:57	JW	04/06/11	AQ	Ground Water	OLD-OU2-32A
F81309-8	04/01/11	16:05	JW	04/06/11	AQ	Ground Water	OLD-OU2-32B

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27A		
Lab Sample ID:	F81309-1	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050035.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.42	1.0	0.20	ug/l	I
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	1.0	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.0	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27A		
Lab Sample ID:	F81309-1	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.36	1.0	0.26	ug/l	I
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	4.3	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27A		
Lab Sample ID:	F81309-1	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27A		
Lab Sample ID:	F81309-1	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	3840	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	228	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27B		
Lab Sample ID:	F81309-2	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050036.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	3.0	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.23	1.0	0.22	ug/l	I
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	24.4	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.77	1.0	0.26	ug/l	I
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27B		
Lab Sample ID:	F81309-2	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	8.7	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20	1.0	0.20	ug/l	I
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.68	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	6.1	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.32	1.0	0.22	ug/l	I
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27B		
Lab Sample ID:	F81309-2	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-27B		
Lab Sample ID:	F81309-2	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	973	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	7.4 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33A		
Lab Sample ID:	F81309-3	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050037.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.54	1.0	0.20	ug/l	I
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33A		
Lab Sample ID:	F81309-3	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33A		
Lab Sample ID:	F81309-3	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33A		
Lab Sample ID:	F81309-3	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1800	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	9.2 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-28B		
Lab Sample ID:	F81309-4	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050038.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	2.2	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	3.8	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.86	1.0	0.26	ug/l	I
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-28B		
Lab Sample ID:	F81309-4	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.21	1.0	0.20	ug/l	I
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	2.6	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-28B		
Lab Sample ID:	F81309-4	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33B		
Lab Sample ID:	F81309-5	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050039.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	2.0	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.38	1.0	0.26	ug/l	I
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33B		
Lab Sample ID:	F81309-5	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.41	1.0	0.23	ug/l	I
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.59	1.0	0.25	ug/l	I
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	12.3	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33B		
Lab Sample ID:	F81309-5	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
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Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-33B		
Lab Sample ID:	F81309-5	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1460	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	9.0 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-37B		
Lab Sample ID:	F81309-6	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050040.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	1.5	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	5.0	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-37B		
Lab Sample ID:	F81309-6	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	2.7	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.90	1.0	0.22	ug/l	I
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-37B		
Lab Sample ID:	F81309-6	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32A		
Lab Sample ID:	F81309-7	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050041.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32A		
Lab Sample ID:	F81309-7	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32A		
Lab Sample ID:	F81309-7	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32A		
Lab Sample ID:	F81309-7	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	66.2 I	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	2.1 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32B		
Lab Sample ID:	F81309-8	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050042.D	1	04/14/11	NMC	n/a	n/a	VM2021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	3.0 U	10	3.0	ug/l	
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
108-86-1	Bromobenzene	0.25 U	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	0.22 U	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.20 U	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	0.26 U	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	0.22 U	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	0.27 U	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.22 U	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	0.22 U	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.2 U	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	0.50 U	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.23 U	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	0.28 U	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.37 U	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.20 U	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.20 U	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	0.44 U	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32B		
Lab Sample ID:	F81309-8	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.35 U	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.20 U	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.20 U	1.0	0.20	ug/l	
591-78-6	2-Hexanone	4.0 U	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.80 U	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.21 U	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.25 U	2.0	0.25	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34 U	1.0	0.34	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.20 U	1.0	0.20	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	0.22 U	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.30 U	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.27 U	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.21 U	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
108-88-3	Toluene	0.20 U	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	2.0 U	10	2.0	ug/l	
	m,p-Xylene	0.32 U	2.0	0.32	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32B		
Lab Sample ID:	F81309-8	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
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I = Result > = MDL but < PQL J = Estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-32B		
Lab Sample ID:	F81309-8	**Date Sampled:**	04/01/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1240	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	10.4 I	15	1.0	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

F81309

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:	Accutest Laboratories Southeast 4405 Vineland Road Suite C-15 Orlando, FL 32811	07-71009/2_4/1/11 Shipped By: Courier Tracking #:

	Sample ID	Date	Time	Matrix	Method(s)	# Cont	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.
1	OLD-OU2-27A	04/01/2011	12:08 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
2	OLD-OU2-27B	04/01/2011	12:48 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
3	OLD-OU2-33A	04/01/2011	01:57 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
4	OLD-OU2-28B	04/01/2011	02:31 pm	WG	VOCs	3	CG	40 ml	HCL	2 week	
5	OLD-OU2-33B	04/01/2011	02:34 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
6	OLD-OU2-37B	04/01/2011	03:17 pm	WG	VOCs	3	CG	40 ml	HCL	2 week	
7	OLD-OU2-32A	04/01/2011	03:57 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
8	OLD-OU2-32B	04/01/2011	04:05 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	

Client Comments / Instructions	Lab Comments / Receipt Conditions

Relinquished By	Date	Time	Accepted By	Date	Time
[signature]	14/5	04/05/11	R. Willem	4-5-11	1415
R. Willem	4-5-11	14:47	[signature] AR	04 06 11	0810

Sampler Name: Katie Ballew

Date Signed: 04/01/2011

Sampler Signature: Katie Ballew

4.0

F81309: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81309 CLIENT: BFA PROJECT: GW Sampling

DATE/TIME RECEIVED: 04/06/11 0800 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 4.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE ET 040611 REVIEWER SIGNATURE/DATE [signature] 04/06/11

NF 12/10

receipt confirmation 122910.xls

F81309: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2021-MB	M0050034.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2021-MB	M0050034.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	0.88	2.0	0.80	ug/l	J
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.59	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2021-MB	M0050034.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

Blank Spike Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2021-BS	M0050033.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	208	166*	59-134
107-02-8	Acrolein	125	106	85	33-157
107-13-1	Acrylonitrile	125	129	103	62-124
71-43-2	Benzene	25	24.8	99	83-124
108-86-1	Bromobenzene	25	24.7	99	83-115
74-97-5	Bromochloromethane	25	23.3	93	78-112
75-27-4	Bromodichloromethane	25	25.1	100	76-116
75-25-2	Bromoform	25	23.9	96	68-128
104-51-8	n-Butylbenzene	25	26.0	104	84-124
135-98-8	sec-Butylbenzene	25	27.2	109	86-127
98-06-6	tert-Butylbenzene	25	27.7	111	83-126
108-90-7	Chlorobenzene	25	25.0	100	87-115
75-00-3	Chloroethane	25	26.6	106	54-166
67-66-3	Chloroform	25	24.6	98	85-123
95-49-8	o-Chlorotoluene	25	25.2	101	84-121
106-43-4	p-Chlorotoluene	25	26.9	108	84-120
110-75-8	2-Chloroethyl vinyl ether	125	114	91	63-125
75-15-0	Carbon disulfide	25	27.1	108	67-147
56-23-5	Carbon tetrachloride	25	25.2	101	74-139
75-34-3	1,1-Dichloroethane	25	25.4	102	82-127
75-35-4	1,1-Dichloroethylene	25	30.4	122	75-133
563-58-6	1,1-Dichloropropene	25	28.0	112	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	24.2	97	61-118
106-93-4	1,2-Dibromoethane	25	24.8	99	80-115
107-06-2	1,2-Dichloroethane	25	24.3	97	76-122
78-87-5	1,2-Dichloropropane	25	24.6	98	81-120
142-28-9	1,3-Dichloropropane	25	24.2	97	81-113
594-20-7	2,2-Dichloropropane	25	25.0	100	77-138
124-48-1	Dibromochloromethane	25	24.4	98	74-116
75-71-8	Dichlorodifluoromethane	25	22.1	88	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.0	100	83-119
541-73-1	m-Dichlorobenzene	25	25.7	103	86-115
95-50-1	o-Dichlorobenzene	25	25.4	102	85-115
106-46-7	p-Dichlorobenzene	25	25.8	103	87-113
156-60-5	trans-1,2-Dichloroethylene	25	21.9	88	82-126

Blank Spike Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2021-BS	M0050033.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	27.1	108	87-123
100-41-4	Ethylbenzene	25	25.5	102	87-118
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	27.8	111	71-133
98-82-8	Isopropylbenzene	25	28.5	114	87-131
99-87-6	p-Isopropyltoluene	25	27.5	110	83-125
108-10-1	4-Methyl-2-pentanone	125	116	93	62-125
74-83-9	Methyl bromide	25	27.2	109	55-151
74-87-3	Methyl chloride	25	29.8	119	55-173
74-95-3	Methylene bromide	25	24.4	98	81-116
75-09-2	Methylene chloride	25	27.0	108	69-125
78-93-3	Methyl ethyl ketone	125	148	118	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.9	96	75-116
91-20-3	Naphthalene	25	25.4	102	59-125
103-65-1	n-Propylbenzene	25	26.3	105	86-125
100-42-5	Styrene	25	24.7	99	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.9	100	81-119
71-55-6	1,1,1-Trichloroethane	25	25.5	102	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	71-120
79-00-5	1,1,2-Trichloroethane	25	24.1	96	80-114
87-61-6	1,2,3-Trichlorobenzene	25	26.0	104	64-126
96-18-4	1,2,3-Trichloropropane	25	25.0	100	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.7	103	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.3	101	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.7	99	83-123
127-18-4	Tetrachloroethylene	25	27.0	108	80-131
108-88-3	Toluene	25	24.4	98	86-116
79-01-6	Trichloroethylene	25	27.0	108	85-124
75-69-4	Trichlorofluoromethane	25	29.6	118	66-156
75-01-4	Vinyl chloride	25	23.9	96	57-153
108-05-4	Vinyl Acetate	125	113	90	38-159
	m,p-Xylene	50	52.1	104	86-121
95-47-6	o-Xylene	25	24.8	99	83-121

Blank Spike Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2021-BS	M0050033.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	101%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81309-1MS	M0050050.D	1	04/14/11	NMC	n/a	n/a	VM2021
F81309-1MSD	M0050051.D	1	04/14/11	NMC	n/a	n/a	VM2021
F81309-1	M0050035.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Compound	F81309-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	104	83	106	85	2	59-134/14
107-02-8	Acrolein	20 U		125	93.7	75	98.7	79	5	33-157/21
107-13-1	Acrylonitrile	10 U		125	129	103	129	103	0	62-124/13
71-43-2	Benzene	0.42	I	25	26.1	103	25.5	100	2	83-124/11
108-86-1	Bromobenzene	1.0 U		25	25.2	101	24.7	99	2	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	24.0	96	23.7	95	1	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	25.8	103	25.2	101	2	76-116/10
75-25-2	Bromoform	1.0 U		25	23.2	93	23.3	93	0	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	25.4	102	24.8	99	2	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	28.2	113	26.8	107	5	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	29.2	117	28.0	112	4	83-126/10
108-90-7	Chlorobenzene	1.0		25	26.2	101	26.1	100	0	87-115/9
75-00-3	Chloroethane	2.0 U		25	29.3	117	26.8	107	9	54-166/20
67-66-3	Chloroform	1.0 U		25	25.8	103	25.4	102	2	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	26.7	107	25.7	103	4	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	28.0	112	27.1	108	3	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	28.2	113	26.9	108	5	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	26.4	106	25.0	100	5	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	26.2	105	25.5	102	3	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	32.2	129	30.6	122	5	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	29.4	118	27.7	111	6	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	25.0	100	24.1	96	4	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	25.6	102	25.1	100	2	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	25.5	102	25.1	100	2	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	25.0	100	24.5	98	2	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	25.3	101	24.9	100	2	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	23.5	94	22.1	88	6	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	24.4	98	24.4	98	0	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	22.7	91	21.3	85	6	34-158/22
156-59-2	cis-1,2-Dichloroethylene	3.0		25	27.7	99	27.2	97	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	25.4	102	24.8	99	2	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	26.2	105	25.5	102	3	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	25.6	102	25.3	101	1	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	25.9	104	25.6	102	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	21.5	86	20.3	81*	6	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81309-1MS	M0050050.D	1	04/14/11	NMC	n/a	n/a	VM2021
F81309-1MSD	M0050051.D	1	04/14/11	NMC	n/a	n/a	VM2021
F81309-1	M0050035.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Compound	F81309-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	27.5	110	27.1	108	1	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	26.1	104	25.6	102	2	87-118/10
591-78-6	2-Hexanone	10 U		125	114	91	114	91	0	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	25.5	102	25.2	101	1	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	28.6	114	26.9	108	6	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	27.7	111	26.8	107	3	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	125	100	125	100	0	62-125/13
74-83-9	Methyl bromide	2.0 U		25	27.7	111	26.4	106	5	55-151/21
74-87-3	Methyl chloride	2.0 U		25	29.9	120	28.9	116	3	55-173/22
74-95-3	Methylene bromide	2.0 U		25	25.6	102	25.1	100	2	81-116/10
75-09-2	Methylene chloride	5.0 U		25	29.1	116	28.4	114	2	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	111	89	110	88	1	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	24.6	98	23.5	94	5	75-116/10
91-20-3	Naphthalene	5.0 U		25	25.9	104	26.1	104	1	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	27.5	110	26.2	105	5	86-125/10
100-42-5	Styrene	1.0 U		25	24.3	97	24.0	96	1	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	24.9	100	24.8	99	0	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	27.0	108	26.0	104	4	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	26.5	106	25.7	103	3	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	25.3	101	25.0	100	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	25.0	100	24.9	100	0	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	25.9	104	24.8	99	4	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	24.7	99	24.5	98	1	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	26.1	104	25.3	101	3	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	25.3	101	24.3	97	4	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	26.4	106	26.0	104	2	80-131/12
108-88-3	Toluene	1.0 U		25	25.7	103	25.2	101	2	86-116/10
79-01-6	Trichloroethylene	0.36	I	25	27.7	109	26.8	106	3	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	31.3	125	29.1	116	7	66-156/15
75-01-4	Vinyl chloride	4.3		25	27.4	92	26.1	87	5	57-153/22
108-05-4	Vinyl Acetate	10 U		125	118	94	113	90	4	38-159/11
	m,p-Xylene	2.0 U		50	53.3	107	51.8	104	3	86-121/10
95-47-6	o-Xylene	1.0 U		25	25.3	101	24.9	100	2	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81309
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81309-1MS	M0050050.D	1	04/14/11	NMC	n/a	n/a	VM2021
F81309-1MSD	M0050051.D	1	04/14/11	NMC	n/a	n/a	VM2021
F81309-1	M0050035.D	1	04/14/11	NMC	n/a	n/a	VM2021

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81309-1, F81309-2, F81309-3, F81309-4, F81309-5, F81309-6, F81309-7, F81309-8

CAS No.	Surrogate Recoveries	MS	MSD	F81309-1	Limits
1868-53-7	Dibromofluoromethane	102%	102%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	99%	76-127%
2037-26-5	Toluene-D8	99%	101%	97%	86-112%
460-00-4	4-Bromofluorobenzene	105%	102%	101%	84-120%

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81309
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	-1.7	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1	0.0	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20375: F81309-1, F81309-2, F81309-3, F81309-5, F81309-7, F81309-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81309
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/14/11					04/14/11	
Metal	F81244-1 Original	DUP	RPD	QC Limits	F81244-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	444	439	1.1	0-20	444	25800	26000	97.5	80-120
Lead									
Magnesium									
Manganese	3.6	3.6	0.0	0-20	3.6	534	500	106.1	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP20375: F81309-1, F81309-2, F81309-3, F81309-5, F81309-7, F81309-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81309
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 04/14/11

Metal	F81244-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	444	26000	26000	98.3	0.8	20
Lead						
Magnesium						
Manganese	3.6	534	500	106.1	0.0	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP20375: F81309-1, F81309-2, F81309-3, F81309-5, F81309-7, F81309-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81309
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	26400	26000	101.5	80-120
Lead				
Magnesium				
Manganese	523	500	104.6	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20375: F81309-1, F81309-2, F81309-3, F81309-5, F81309-7, F81309-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81309
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	F81244-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	444	434	2.3	0-10
Lead				
Magnesium				
Manganese	3.60	0.00	100.0(a)	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20375: F81309-1, F81309-2, F81309-3, F81309-5, F81309-7, F81309-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: F81309
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	Sample ml	Final ml	F81244-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	444.3	435.414	3643	0.2	150	3000	106.9	80-120
Lead										
Magnesium										
Manganese	9.8	10	3.6	3.528	59.6	0.2	2.5	50	112.1	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20375: F81309-1, F81309-2, F81309-3, F81309-5, F81309-7, F81309-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

05/03/11

Technical Report for

BFA Environmental Consultants

NTC Orlando, Orlando, FL

07-71009/2

Accutest Job Number: F81494

Sampling Date: 04/08/11

Report to:

BFA Environmental Consultants
1230 Hillcrest Street Suite 100
Orlando, FL 32803
jwillis@bfaenvironmental.com

ATTN: John Willis

Total number of pages in report: **49**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Sample Summary

BFA Environmental Consultants

Job No: F81494

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81494-1	04/08/11	11:04	JD	04/13/11	AQ	Ground Water	OLD-OU2-31A
F81494-1F	04/08/11	11:04	JD	04/13/11	AQ	Groundwater Filtered	OLD-OU2-31A
F81494-2	04/08/11	11:15	JD	04/13/11	AQ	Ground Water	OLD-OU2-21B
F81494-2F	04/08/11	11:15	JD	04/13/11	AQ	Groundwater Filtered	OLD-OU2-21B
F81494-3	04/08/11	12:12	JD	04/13/11	AQ	Ground Water	OLD-OU2-31B
F81494-3F	04/08/11	12:12	JD	04/13/11	AQ	Groundwater Filtered	OLD-OU2-31B
F81494-4	04/08/11	12:32	JD	04/13/11	AQ	Ground Water	OLD-OU2-21A
F81494-4F	04/08/11	12:32	JD	04/13/11	AQ	Groundwater Filtered	OLD-OU2-21A
F81494-5	04/08/11	14:45	JD	04/13/11	AQ	Ground Water	DUP-1

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31A		
Lab Sample ID:	F81494-1	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C077906.D	1	04/21/11	AJ	n/a	n/a	VC3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31A		
Lab Sample ID:	F81494-1	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	105 I	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	5.6 I	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31A		
Lab Sample ID:	F81494-1	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	2.5 U	5.0	2.5	mg/l	1	04/20/11	CC	SM19 2320B
Chloride	3.7	2.0	1.0	mg/l	1	04/13/11 15:21	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.050 U	0.10	0.050	mg/l	1	04/26/11 16:07	LT	EPA 350.1
Sulfate	5.2	2.0	1.0	mg/l	1	04/13/11 15:21	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31A		
Lab Sample ID:	F81494-1F	**Date Sampled:**	04/08/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	6.1	1.0	0.24	mg/l	1	04/30/11 21:10	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21B		
Lab Sample ID:	F81494-2	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C077907.D	1	04/21/11	AJ	n/a	n/a	VC3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21B		
Lab Sample ID:	F81494-2	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	876	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	13.7 I	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21B		
Lab Sample ID:	F81494-2	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	29.7	5.0	2.5	mg/l	1	04/20/11	CC	SM19 2320B
Chloride	29.7	2.0	1.0	mg/l	1	04/13/11 15:38	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.050 U	0.10	0.050	mg/l	1	04/26/11 15:48	LT	EPA 350.1
Sulfate	21.1	2.0	1.0	mg/l	1	04/13/11 15:38	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21B		
Lab Sample ID:	F81494-2F	**Date Sampled:**	04/08/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	11.5	1.0	0.24	mg/l	1	04/30/11 21:33	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31B		
Lab Sample ID:	F81494-3	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C077908.D	1	04/21/11	AJ	n/a	n/a	VC3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	27.9	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.7	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.69	1.0	0.20	ug/l	I
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	3.5	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.80	1.0	0.26	ug/l	I
75-01-4	Vinyl chloride	2.2	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31B		
Lab Sample ID:	F81494-3	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1690	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	6.6 I	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31B		
Lab Sample ID:	F81494-3	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	5.0	5.0	2.5	mg/l	1	04/20/11	CC	SM19 2320B
Chloride	25.1	2.0	1.0	mg/l	1	04/13/11 15:55	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.050 U	0.10	0.050	mg/l	1	04/26/11 15:49	LT	EPA 350.1
Sulfate	17.4	2.0	1.0	mg/l	1	04/13/11 15:55	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-31B		
Lab Sample ID:	F81494-3F	**Date Sampled:**	04/08/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	24.2	1.0	0.24	mg/l	1	04/30/11 21:48	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21A		
Lab Sample ID:	F81494-4	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C077909.D	1	04/21/11	AJ	n/a	n/a	VC3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21A		
Lab Sample ID:	F81494-4	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	45.8 I	300	35	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	1.0 U	15	1.0	ug/l	1	04/20/11	04/20/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8885
(2) Prep QC Batch: MP20407

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21A		
Lab Sample ID:	F81494-4	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	2.5 U	5.0	2.5	mg/l	1	04/20/11	CC	SM19 2320B
Chloride	8.3	2.0	1.0	mg/l	1	04/13/11 16:12	CC	EPA 300/SW846 9056A
Nitrogen, Ammonia	0.050 U	0.10	0.050	mg/l	1	04/26/11 15:50	LT	EPA 350.1
Sulfate	5.6	2.0	1.0	mg/l	1	04/13/11 16:12	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-21A		
Lab Sample ID:	F81494-4F	**Date Sampled:**	04/08/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	24.3	1.0	0.24	mg/l	1	04/30/11 22:03	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	F81494-5	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C077910.D	1	04/21/11	AJ	n/a	n/a	VC3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	29.6	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.7	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.56	1.0	0.20	ug/l	I
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	2.5	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.59	1.0	0.26	ug/l	I
75-01-4	Vinyl chloride	2.0	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	F81494-5	**Date Sampled:**	04/08/11
Matrix:	AQ - Ground Water	**Date Received:**	04/13/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1700	300	35	ug/l	1	04/27/11	04/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Manganese	7.3 I	15	1.0	ug/l	1	04/27/11	04/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8901
(2) Prep QC Batch: MP20452

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

F81494

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:		07-71009/2_4/8/11 Shipped By: Tracking #:

	Sample ID	Date	Time	Matrix	Method(s)	# Cont	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.
1	OLD-OU2-31A	04/08/2011	11:04 am	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO3;None	2 week	
2	OLD-OU2-21B	04/08/2011	11:15 am	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO3;Other;None	2 week	
3	OLD-OU2-31B	04/08/2011	12:12 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO3;None	2 week	
4	OLD-OU2-21A	04/08/2011	12:32 pm	WG	Alkalinity, Chloride, Nitrate/Nitrite, Orthophosphate, Sulfate Ammonium Biogenic Gases DOC Fe/Mn VOCs	10	AG;CG;PE	40 ml;500 ml;1 L	H2SO4;HCL;HNO3;Other;None	2 week	
5	DUP1	04/08/2011	02:45 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	

Client Comments / Instructions	Lab Comments / Receipt Conditions

Relinquished By	Date	Time	Accepted By	Date	Time
	04/13/2011	0958		4/13/11	958
	4/13/11	1017	AM	04/13/11	1017

Sampler Name:

Sampler Signature:

Date Signed: 04/08/2011

3.8

3.1 3

F81494: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81494 CLIENT: BFA PROJECT: GW Sampling

DATE/TIME RECEIVED: 04-13-11 10:17 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: WC analysis out of hold received

TECHNICIAN SIGNATURE/DATE FT 04.13.11 REVIEWER SIGNATURE/DATE [signature] 04/13/11

NF 12/10

receipt confirmation 122910.xls

F81494: Chain of Custody

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OPERABLE UNIT 2 MARCH 2011 EVENT		MEASUR	LABORATORY ANALYSIS													
		Purge	Specific VOCs*	Iron	Manganese	Alkalinity	nitrate	nitrite	ammonium	chloride	Ortho-phosphate	Sulfate	Dissolved Organic Carbon	hydrogen	biogenic gases**	Duplicates
Well ID	Water Levels		SW8260B Note	6010B	6010B								EPA 415.1			
OLD-OU2-02A	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-02B	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-03A	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-03B	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-12B	x	x	x													
OLD-OU2-18B	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-21A	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-21B	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-27A	x	x	x	x	x											
OLD-OU2-27B	x	x	x	x	x											
OLD-OU2-28B	x	x	x													
OLD-OU2-29A	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-29B	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-30A	x	x	x	x	x											
OLD-OU2-30B	x	x	x	x	x											
OLD-OU2-31A	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
OLD-OU2-31B	x	x	x	x	x	x	x	x	x	x	x	x	x		x	DUP 1
OLD-OU2-32A	x	x	x	x	x											
OLD-OU2-32B	x	x	x	x	x											
OLD-OU2-33A	x	x	x	x	x											
OLD-OU2-33B	x	x	x	x	x											
OLD-OU2-37B	x	x	x													
OLD-OU2-41B	x	x	x									x	x		x	
OLD-OU2-42B	x	x	x									x	x		x	MS
OLD-OU2-43B	x	x	x									x	x		x	
OLD-OU2-44B	x	x	x									x	x		x	
OLD-OU2-45B	x	x	x									x	x		x	
OLD-OU2-46B	x	x	x									x	x		x	
OLD-OU2-47B	x	x	x									x	x		x	
OLD-OU2-48B	x	x	x									x	x		x	
OLD-OU2-49B	x	x	x									x	x		x	
OLD-OU2-50B	x	x	x									x	x		x	
OLD-OU2-51B	x	x	x									x	x		x	
OLD-OU2-53B	x	x	x									x	x		x	
OLD-OU2-DP01A	x	x	x													
OLD-OU2-DP02A	x	x	x	x	x	x	x	x	x	x	x	x	x		x	DUP 2
OLD-OU2-LG1	x	x	x													
OLD-OU2-SW29	x	x	x	x												
OLD-OU2-SW30	x	x	x	x												
OLD-OU2-SW31	x	x	x	x												
OLD-OU2-SW32	x	x	x	x												
OLD-OU2-SW33	x	x	x	x												
OLD-OU2-SW34	x	x	x	x												
OLD-OU2-SW35	x	x	x	x												
OLD-OU2-SW36	x	x	x	x												
	45	45	45	28	20	12	12	12	12	12	12	24	24	0	24	

2 duplicates 2equipment blanks and 1 MS. These are for VOCs Fe and Mn only

* VOCs -Run 8260 but only report the following VOCs: benzene, isopropyl benzene, PCE, TCE, cis-1,2-DCE, Vinyl Chloride, methylene chloride

**Biogenic Gasses = DO, CO2, N2, ethene, ethane, methane

NEEDS FIELD FILTERS

F81494: Chain of Custody

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Job Change Order: F81494_4/14/2011

Requested Date:	4/14/2011	**Received Date:**	4/13/2011
Account Name:	BFA Environmental Consultants	**Due Date:**	4/27/2011
Project Description:	NTC Orlando, Orlando, FL	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	14

Sample #:
F81494-1-5

Change: For V8260STD please report select analytes only per request of client. "BZ, IPBZ,PCE,TCE,CIS-12DCE,VC and MECL". Thank you

Above Changes client, John Willis, via telephone **Date:** 4/14/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F81494: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81494
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3101-MB	C077890.D	1	04/21/11	AJ	n/a	n/a	VC3101

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81494-1, F81494-2, F81494-3, F81494-4, F81494-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Blank Spike Summary

Job Number: F81494
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3101-BS	C077889.D	1	04/21/11	AJ	n/a	n/a	VC3101

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81494-1, F81494-2, F81494-3, F81494-4, F81494-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.7	107	83-124
156-59-2	cis-1,2-Dichloroethylene	25	25.3	101	81-114
98-82-8	Isopropylbenzene	25	29.7	119	87-131
75-09-2	Methylene chloride	25	26.4	106	69-125
127-18-4	Tetrachloroethylene	25	27.3	109	80-131
79-01-6	Trichloroethylene	25	26.5	106	85-124
75-01-4	Vinyl chloride	25	27.1	108	57-153

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81494
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81431-9MS	C077902.D	1	04/21/11	AJ	n/a	n/a	VC3101
F81431-9MSD	C077903.D	1	04/21/11	AJ	n/a	n/a	VC3101
F81431-9	C077900.D	1	04/21/11	AJ	n/a	n/a	VC3101

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81494-1, F81494-2, F81494-3, F81494-4, F81494-5

CAS No.	Compound	F81431-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U		25	25.7	103	26.5	106	3	83-124/11
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	24.2	97	24.6	98	2	81-114/10
98-82-8	Isopropylbenzene	1.0 U		25	29.6	118	30.0	120	1	87-131/10
75-09-2	Methylene chloride	5.0 U		25	26.4	106	26.8	107	2	69-125/11
127-18-4	Tetrachloroethylene	1.0 U		25	26.2	105	27.0	108	3	80-131/12
79-01-6	Trichloroethylene	1.0 U		25	26.5	106	26.1	104	2	85-124/10
75-01-4	Vinyl chloride	1.0 U		25	21.7	87	25.8	103	17	57-153/22

CAS No.	Surrogate Recoveries	MS	MSD	F81431-9	Limits
1868-53-7	Dibromofluoromethane	105%	104%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	111%	110%	107%	76-127%
2037-26-5	Toluene-D8	99%	100%	104%	86-112%
460-00-4	4-Bromofluorobenzene	101%	98%	105%	84-120%

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	21.2	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1	0.10	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20407: F81494-1, F81494-2, F81494-3, F81494-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date:			04/20/11					04/20/11	
Metal	F81494-1 Original	DUP	RPD	QC Limits	F81494-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	105	147	33.3 (a)	0-20	105	24500	26000	93.8	80-120
Lead									
Magnesium									
Manganese	5.6	5.9	5.2	0-20	5.6	504	500	99.7	80-120
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP20407: F81494-1, F81494-2, F81494-3, F81494-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/20/11

Metal	F81494-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	105	24100	26000	92.3	1.6	20
Lead						
Magnesium						
Manganese	5.6	490	500	96.9	2.8	20
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP20407: F81494-1, F81494-2, F81494-3, F81494-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	25500	26000	98.1	80-120
Lead				
Magnesium				
Manganese	516	500	103.2	80-120
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20407: F81494-1, F81494-2, F81494-3, F81494-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	F81494-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	105	0.00	100.0(a)	0-10
Lead				
Magnesium				
Manganese	5.60	5.60	0.0	0-10
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20407: F81494-1, F81494-2, F81494-3, F81494-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20407
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/20/11

Metal	Sample ml	Final ml	F81494-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	104.6	102.508	2961	0.2	150	3000	95.3	80-120
Lead										
Magnesium										
Manganese	9.8	10	5.6	5.488	54.5	0.2	2.5	50	98.0	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20407: F81494-1, F81494-2, F81494-3, F81494-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20452
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/27/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	1	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	34	35	0.70	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1	0.10	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	750	1900		
Strontium	10	1	1		
Thallium	10	1	1.9		
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20452: F81494-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20452
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/27/11					04/27/11	
Metal	F81701-1 Original	DUP	RPD	QC Limits	F81701-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	2770	2940	6.0	0-20	2770	27300	26000	94.3	80-120
Lead	anr								
Magnesium									
Manganese	4780	4850	1.5	0-20	4780	5010	500	46.0 (a)	80-120
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP20452: F81494-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20452 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/11

Metal	F81701-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	2770	27000	26000	93.2	1.1	20
Lead	anr					
Magnesium						
Manganese	4780	5130	500	70.0 (a)	2.4	20
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP20452: F81494-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20452
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/27/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	25300	26000	97.3	80-120
Lead	anr			
Magnesium				
Manganese	519	500	103.8	80-120
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20452: F81494-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20452
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/27/11

Metal	F81701-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	2770	2960	7.0	0-10
Lead	anr			
Magnesium				
Manganese	4780	4960	3.7	0-10
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20452: F81494-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20452
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/27/11

Metal	Sample ml	Final ml	F81701-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	2771	2715.58	5700	0.2	150	3000	99.5	80-120
Lead										
Magnesium										
Manganese	9.8	10	4780	4684.4	4589	0.2	2.5	50	-190.8*a	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20452: F81494-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44192	5.0	0.0	mg/l	250	248	99.2	90-113%
Chloride	GP16817/GN44110	2.0	0.0	mg/l	50	52.3	104.6	90-110%
Nitrogen, Ammonia	GP16879/GN44269	0.10	0.0	mg/l	2.5	2.54	101.6	90-110%
Nitrogen, Nitrate	GP16817/GN44110	0.10	0.0	mg/l	2.5	2.44	97.6	90-110%
Nitrogen, Nitrite	GP16817/GN44110	0.10	0.0	mg/l	2.5	2.62	104.8	90-110%
Sulfate	GP16817/GN44110	2.0	0.0	mg/l	50	52.7	105.4	90-110%
Total Organic Carbon	GP16906/GN44327	1.0	0.0	mg/l	15	13.9	92.7	90-110%

Associated Samples:
Batch GN44192: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16817: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16879: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16906: F81494-1F, F81494-2F, F81494-3F, F81494-4F
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44192	F81537-8	mg/l	130	131	0.8	0-20%
Chloride	GP16817/GN44110	F81481-7	mg/l	2.6	2.2	16.7	0-20%
Nitrogen, Ammonia	GP16879/GN44269	F81478-2	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrate	GP16817/GN44110	F81481-7	mg/l	0.12	0.097	21.2(a)	0-20%
Nitrogen, Nitrite	GP16817/GN44110	F81481-7	mg/l	0.050 U	0.0	0.0	0-20%
Sulfate	GP16817/GN44110	F81481-7	mg/l	5.1	5.2	1.9	0-20%
Total Organic Carbon	GP16906/GN44327	F81494-1F	mg/l	6.1	5.9	3.3	0-20%

Associated Samples:
Batch GN44192: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16817: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16879: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16906: F81494-1F, F81494-2F, F81494-3F, F81494-4F
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44192	F81537-8	mg/l	130	250	371	96.4	90-113%
Chloride	GP16817/GN44110	F81481-7	mg/l	2.6	50	58.4	112.0N(a)	90-110%
Nitrogen, Ammonia	GP16879/GN44269	F81478-2	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Nitrogen, Nitrate	GP16817/GN44110	F81481-7	mg/l	0.12	2.5	2.6	98.1	90-110%
Nitrogen, Nitrite	GP16817/GN44110	F81481-7	mg/l	0.050 U	2.5	2.5	99.2	90-110%
Sulfate	GP16817/GN44110	F81481-7	mg/l	5.1	50	55.6	101.0	90-110%
Total Organic Carbon	GP16906/GN44344	F81494-1F	mg/l	6.1	15	28.7	150.7N(a)	90-110%

Associated Samples:
Batch GN44192: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16817: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16879: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16906: F81494-1F, F81494-2F, F81494-3F, F81494-4F
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81494
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN44192	F81537-8	mg/l	130	250	364	1.9	20%
Nitrogen, Ammonia	GP16879/GN44269	F81478-2	mg/l	0.050 U	2.5	2.5	0.0	20%

Associated Samples:
Batch GN44192: F81494-1, F81494-2, F81494-3, F81494-4
Batch GP16879: F81494-1, F81494-2, F81494-3, F81494-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Southeast ACCUTEST LABORATORIES

04/28/11

Technical Report for

BFA Environmental Consultants

NTC Orlando, Orlando, FL

07-71009/2

Accutest Job Number: F81308

Sampling Date: 04/04/11

Report to:

BFA Environmental Consultants

jwillis@bfaenvironmental.com

ATTN: John Willis

Total number of pages in report: **37**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

BFA Environmental Consultants

Job No: F81308

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81308-1	04/04/11	11:53	JW	04/06/11	AQ	Ground Water	OLD-OU2-48B
F81308-1F	04/04/11	11:53	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-48B
F81308-2	04/04/11	12:03	JW	04/06/11	AQ	Ground Water	OLD-OU2-44B
F81308-2F	04/04/11	12:03	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-44B
F81308-3	04/04/11	14:10	JW	04/06/11	AQ	Ground Water	OLD-OU2-45B
F81308-3F	04/04/11	14:10	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-45B
F81308-4	04/04/11	14:12	JW	04/06/11	AQ	Ground Water	OLD-OU2-50B
F81308-4F	04/04/11	14:12	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-50B
F81308-5	04/04/11	15:24	JW	04/06/11	AQ	Ground Water	OLD-OU2-41B
F81308-5F	04/04/11	15:24	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-41B
F81308-6	04/04/11	15:51	JW	04/06/11	AQ	Ground Water	OLD-OU2-46B
F81308-6F	04/04/11	15:51	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-46B
F81308-7	04/04/11	16:21	JW	04/06/11	AQ	Ground Water	OLD-OU2-53B

Sample Summary
(continued)

BFA Environmental Consultants

Job No: F81308

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81308-7F	04/04/11	16:21	JW	04/06/11	AQ	Groundwater Filtered	OLD-OU2-53B

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-48B		
Lab Sample ID:	F81308-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164270.D	20	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	4.0 U	20	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1810	20	5.2	ug/l	
98-82-8	Isopropylbenzene	4.0 U	20	4.0	ug/l	
75-09-2	Methylene chloride	40 U	100	40	ug/l	
127-18-4	Tetrachloroethylene	5.0 U	20	5.0	ug/l	
79-01-6	Trichloroethylene	5.2 U	20	5.2	ug/l	
75-01-4	Vinyl chloride	17.8	20	4.4	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		87-116%
17060-07-0	1,2-Dichloroethane-D4	126%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	113%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-48B		
Lab Sample ID:	F81308-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	6.9	2.0	1.0	mg/l	1	04/08/11 16:40	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-48B		
Lab Sample ID:	F81308-1F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	16.8	1.0	0.24	mg/l	1	04/25/11 21:16	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-44B		
Lab Sample ID:	F81308-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164252.D	20	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	4.0 U	20	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1610	20	5.2	ug/l	
98-82-8	Isopropylbenzene	4.0 U	20	4.0	ug/l	
75-09-2	Methylene chloride	40 U	100	40	ug/l	
127-18-4	Tetrachloroethylene	6.0	20	5.0	ug/l	I
79-01-6	Trichloroethylene	771	20	5.2	ug/l	
75-01-4	Vinyl chloride	15.8	20	4.4	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-44B		
Lab Sample ID:	F81308-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	12.9	2.0	1.0	mg/l	1	04/08/11 16:57	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-44B		
Lab Sample ID:	F81308-2F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	5.6	1.0	0.24	mg/l	1	04/25/11 21:31	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-45B		
Lab Sample ID:	F81308-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164253.D	10	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	2.0 U	10	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	852	10	2.6	ug/l	
98-82-8	Isopropylbenzene	2.0 U	10	2.0	ug/l	
75-09-2	Methylene chloride	20 U	50	20	ug/l	
127-18-4	Tetrachloroethylene	2.5 U	10	2.5	ug/l	
79-01-6	Trichloroethylene	58.2	10	2.6	ug/l	
75-01-4	Vinyl chloride	7.2	10	2.2	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-45B		
Lab Sample ID:	F81308-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	7.2	2.0	1.0	mg/l	1	04/08/11 17:14	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-45B		
Lab Sample ID:	F81308-3F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	6.3	1.0	0.24	mg/l	1	04/25/11 20:52	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-50B		
Lab Sample ID:	F81308-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164254.D	10	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	2.0 U	10	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	648	10	2.6	ug/l	
98-82-8	Isopropylbenzene	2.0 U	10	2.0	ug/l	
75-09-2	Methylene chloride	20 U	50	20	ug/l	
127-18-4	Tetrachloroethylene	2.5 U	10	2.5	ug/l	
79-01-6	Trichloroethylene	4.8	10	2.6	ug/l	I
75-01-4	Vinyl chloride	6.5	10	2.2	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-50B		
Lab Sample ID:	F81308-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	19.2	2.0	1.0	mg/l	1	04/08/11 17:30	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-50B		
Lab Sample ID:	F81308-4F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	24.8	1.0	0.24	mg/l	1	04/25/11 21:50	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-41B		
Lab Sample ID:	F81308-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164255.D	1	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	1.8	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.5	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.41	1.0	0.25	ug/l	I
79-01-6	Trichloroethylene	47.6	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.99	1.0	0.22	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-41B		
Lab Sample ID:	F81308-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	8.5	2.0	1.0	mg/l	1	04/08/11 17:47	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-41B		
Lab Sample ID:	F81308-5F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	5.3	1.0	0.24	mg/l	1	04/25/11 22:38	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-46B		
Lab Sample ID:	F81308-6	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164256.D	50	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	10 U	50	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1550	50	13	ug/l	
98-82-8	Isopropylbenzene	10 U	50	10	ug/l	
75-09-2	Methylene chloride	100 U	250	100	ug/l	
127-18-4	Tetrachloroethylene	16.7	50	13	ug/l	I
79-01-6	Trichloroethylene	3840	50	13	ug/l	
75-01-4	Vinyl chloride	31.8	50	11	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	114%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-46B		
Lab Sample ID:	F81308-6	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	10.5	2.0	1.0	mg/l	1	04/08/11 18:38	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-46B		
Lab Sample ID:	F81308-6F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	25.8	1.0	0.24	mg/l	1	04/25/11 22:53	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-53B		
Lab Sample ID:	F81308-7	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0164257.D	10	04/15/11	TD	n/a	n/a	VA736
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	2.0 U	10	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	614	10	2.6	ug/l	
98-82-8	Isopropylbenzene	2.0 U	10	2.0	ug/l	
75-09-2	Methylene chloride	20 U	50	20	ug/l	
127-18-4	Tetrachloroethylene	2.5 U	10	2.5	ug/l	
79-01-6	Trichloroethylene	6.0	10	2.6	ug/l	I
75-01-4	Vinyl chloride	293	10	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	116%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-53B		
Lab Sample ID:	F81308-7	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	7.7	2.0	1.0	mg/l	1	04/08/11 18:55	CC	EPA 300/SW846 9056A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-53B		
Lab Sample ID:	F81308-7F	**Date Sampled:**	04/04/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Total Organic Carbon	7.2	1.0	0.24	mg/l	1	04/25/11 23:08	AR	SM19 5310B/SW 9060A

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

F81308

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:	Accutest Laboratories Southeast 4405 Vineland Road Suite C-15 Orlando, FL 32811	07-71009/2_4/4/11 Shipped By: Courier Tracking #:

	Sample ID	Date	Time	Matrix	Method(s)	# Cont	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.
1	OLD-OU2-48B	04/04/2011	11:53 am	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;Other	2 week	
2	OLD-OU2-44B	04/04/2011	12:03 pm	WG	voc DOC Sulfate Biogenic Gases	8	AG;CG;PE	40 ml;500 ml	HCL;Other;None	2 week	
3	OLD-OU2-45B	04/04/2011	02:10 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;Other;None	2 week	
4	OLD-OU2-50B	04/04/2011	02:12 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;Other;None	2 week	
5	OLD-OU2-41B	04/04/2011	03:24 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;Other;None	2 week	
6	OLD-OU2-46B	04/04/2011	03:51 pm	WG	Biogenic Gases DOC Sulfate VOCs	8	AG;CG;PE	40 ml;500 ml	HCL;Other;None	2 week	
7	OLD-OU2-53B	04/04/2011	04:21 pm	WG	BiogenicGases DOC Sulphate Voc	8	AG;CG;PE	40 ml;250 ml		2 week	

Client Comments / Instructions	Lab Comments / Receipt Conditions

Relinquished By	Date	Time	Accepted By	Date	Time
[illegible]	04/05	14:15	[illegible]	4-5-11	14:15
[illegible]	4-5-11	14:47	[illegible]	4/4/2011	0800

Sampler Name: Damian Allen

Sampler Signature: [illegible]

Date Signed: 04/04/2011

4.0

3.1 3

F81308: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81308 CLIENT: BFA PROJECT: GW Sampling

DATE/TIME RECEIVED: 040611 0800 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 4.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Samp #2 All bottles time 12:00 coc 12:03

TECHNICIAN SIGNATURE/DATE E.T. 04-06-11 REVIEWER SIGNATURE/DATE [signature] 04/06/11

NF 12/10

receipt confirmation 122910.xls

F81308: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81308
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA736-MB	A0164250.D	1	04/15/11	TD	n/a	n/a	VA736

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81308-1, F81308-2, F81308-3, F81308-4, F81308-5, F81308-6, F81308-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Blank Spike Summary

Job Number: F81308
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA736-BS	A0164248.D	1	04/15/11	TD	n/a	n/a	VA736

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81308-1, F81308-2, F81308-3, F81308-4, F81308-5, F81308-6, F81308-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.5	110	83-124
156-59-2	cis-1,2-Dichloroethylene	25	27.6	110	81-114
98-82-8	Isopropylbenzene	25	30.5	122	87-131
75-09-2	Methylene chloride	25	27.2	109	69-125
127-18-4	Tetrachloroethylene	25	28.9	116	80-131
79-01-6	Trichloroethylene	25	26.8	107	85-124
75-01-4	Vinyl chloride	25	20.5	82	57-153

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81308
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81308-6MS	A0164273.D	1	04/15/11	TD	n/a	n/a	VA736
F81308-6MSD	A0164274.D	1	04/15/11	TD	n/a	n/a	VA736
F81308-6	A0164256.D	50	04/15/11	TD	n/a	n/a	VA736

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81308-1, F81308-2, F81308-3, F81308-4, F81308-5, F81308-6, F81308-7

CAS No.	Compound	F81308-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50 U		25	28.3	113	26.6	106	6	83-124/11
156-59-2	cis-1,2-Dichloroethylene	1550		25	1530	-80* [a]	1430	-480* [a]	7	81-114/10
98-82-8	Isopropylbenzene	50 U		25	31.8	127	29.8	119	6	87-131/10
75-09-2	Methylene chloride	250 U		25	30.2	121	28.4	114	6	69-125/11
127-18-4	Tetrachloroethylene	16.7	I	25	46.2	118	43.2	106	7	80-131/12
79-01-6	Trichloroethylene	3840		25	2630	-4840*	[a]2390	-5800*	[a]10	85-124/10
75-01-4	Vinyl chloride	31.8	I	25	58.7	108	52.7	84	11	57-153/22

CAS No.	Surrogate Recoveries	MS	MSD	F81308-6	Limits
1868-53-7	Dibromofluoromethane	106%	105%	109%	87-116%
17060-07-0	1,2-Dichloroethane-D4	121%	116%	114%	76-127%
2037-26-5	Toluene-D8	98%	100%	99%	86-112%
460-00-4	4-Bromofluorobenzene	98%	97%	107%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81308
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP16791/GN44049	2.0	0.0	mg/l	50	50.9	101.8	90-110%
Nitrogen, Nitrate	GP16791/GN44049	0.10	0.0	mg/l	2.5	2.48	99.2	90-110%
Nitrogen, Nitrite	GP16791/GN44049	0.10	0.0	mg/l	2.5	2.48	99.2	90-110%
Sulfate	GP16791/GN44049	2.0	0.0	mg/l	50	51.3	102.6	90-110%
Total Organic Carbon	GP16858/GN44267	1.0	0.0	mg/l	15	13.9	92.7	90-110%

Associated Samples:
Batch GP16791: F81308-1, F81308-2, F81308-3, F81308-4, F81308-5, F81308-6, F81308-7
Batch GP16858: F81308-1F, F81308-2F, F81308-3F, F81308-4F, F81308-5F, F81308-6F, F81308-7F
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81308
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP16791/GN44049	F81368-2	mg/l	3.6	3.4	5.7	0-20%
Nitrogen, Nitrate	GP16791/GN44068	F81368-2	mg/l	0.094	0.079	17.3	0-20%
Nitrogen, Nitrite	GP16791/GN44049	F81368-2	mg/l	0.050 U	0.0	0.0	0-20%
Sulfate	GP16791/GN44049	F81368-2	mg/l	5.0	5.0	0.0	0-20%
Total Organic Carbon	GP16858/GN44267	F81308-3F	mg/l	6.3	6.2	1.6	0-20%

Associated Samples:
Batch GP16791: F81308-1, F81308-2, F81308-3, F81308-4, F81308-5, F81308-6, F81308-7
Batch GP16858: F81308-1F, F81308-2F, F81308-3F, F81308-4F, F81308-5F, F81308-6F, F81308-7F
(*) Outside of QC limits

Southeast ACCUTEST LABORATORIES

04/15/11

Technical Report for

BFA Environmental Consultants

NTC Orlando, Orlando, FL

07-71009/2

Accutest Job Number: F81244

Sampling Date: 03/30/11

Report to:

BFA Environmental Consultants
1230 Hillcrest Street Suite 100
Orlando, FL 32803
jwillis@bfaenvironmental.com

ATTN: John Willis

Total number of pages in report: **31**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

BFA Environmental Consultants

Job No: F81244

NTC Orlando, Orlando, FL
Project No: 07-71009/2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81244-1	03/30/11	12:23	KB	04/01/11	AQ	Ground Water	OLD-OU2-SW29
F81244-2	03/30/11	12:38	KB	04/01/11	AQ	Ground Water	OLD-OU2-SW30
F81244-3	03/30/11	12:52	KB	04/01/11	AQ	Ground Water	OLD-OU2-SW31
F81244-4	03/30/11	13:23	KB	04/01/11	AQ	Ground Water	OLD-OU2-LG1
F81244-5	03/30/11	13:39	KB	04/01/11	AQ	Ground Water	OLD-OU2-SW35
F81244-6	03/30/11	13:55	KB	04/01/11	AQ	Ground Water	OLD-OU2-SW36

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW29		
Lab Sample ID:	F81244-1	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074799.D	1	04/12/11	AJ	n/a	n/a	VB3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW29		
Lab Sample ID:	F81244-1	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	444	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW30		
Lab Sample ID:	F81244-2	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074800.D	1	04/12/11	AJ	n/a	n/a	VB3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW30		
Lab Sample ID:	F81244-2	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	461	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW31		
Lab Sample ID:	F81244-3	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074801.D	1	04/12/11	AJ	n/a	n/a	VB3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW31		
Lab Sample ID:	F81244-3	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	1620	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-LG1		
Lab Sample ID:	F81244-4	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074802.D	1	04/12/11	AJ	n/a	n/a	VB3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW35		
Lab Sample ID:	F81244-5	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074803.D	1	04/12/11	AJ	n/a	n/a	VB3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	114%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW35		
Lab Sample ID:	F81244-5	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	5440	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW36		
Lab Sample ID:	F81244-6	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NTC Orlando, Orlando, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074804.D	1	04/12/11	AJ	n/a	n/a	VB3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
71-43-2	Benzene	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.26 U	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	0.26 U	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	0.22 U	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OLD-OU2-SW36		
Lab Sample ID:	F81244-6	**Date Sampled:**	03/30/11
Matrix:	AQ - Ground Water	**Date Received:**	04/01/11
		Percent Solids:	n/a
Project:	NTC Orlando, Orlando, FL		

Total Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	2070	300	35	ug/l	1	04/14/11	04/14/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8871
(2) Prep QC Batch: MP20375

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

BFA Environmental Consultants

CHAIN OF CUSTODY
Analytical Request Document

F81244

Client Information	Project Information	Lab Information	COC Number
BFA Orlando, FL Report Copy to: John Willis E-mail Report to: jwillis@bfaenvironmental.com 4078968608	Groundwater Sampling at Operable Unit 2 Orlando, FL 32813 Lab Quote No: Ref. No: Project No: 07-71009/2 Invoice to:		07-71009/2_3/30/11 Shipped By: Tracking #:

	Sample ID	Date	Time	Matrix	Method(s)	# Cont	Cont. Type	Cont. Size	Preservatives	TAT	Lab ID No.
1	OLD-OU2-SW29	03/30/2011	12:23 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
2	OLD-OU2-SW30	03/30/2011	12:38 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
3	OLD-OU2-SW31	03/30/2011	12:52 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
4	OLD-OU2-LG1	03/30/2011	01:23 pm	WG	VOCs	3	CG	40 ml	HCL	2 week	
5	OLD-OU2-SW35	03/30/2011	01:39 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	
6	OLD-OU2-SW36	03/30/2011	01:55 pm	WG	Fe/Mn VOCs	4	CG;PE	40 ml;500 ml	HCL;HNO3	2 week	

Client Comments / Instructions	Lab Comments / Receipt Conditions

Relinquished By	Date	Time	Accepted By	Date	Time
[illegible]	4/1/11	912	[illegible]	4-1-11	912
R. Willis	4-1-11	0933	[illegible]	04-01-11	0933

Sampler Name:

Sampler Signature:

Date Signed: 03/30/2011

-1.8

F81244: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81244 CLIENT: BFA PROJECT: ?

DATE/TIME RECEIVED: 04.01.11 0933 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -.2
- [ ] OBSERVED TEMPS: 5.0
- [ ] CORRECTED TEMPS: 4.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE FT 04.01.11 REVIEWER SIGNATURE/DATE

NF 12/10 receipt confirmation 122910.xls

F81244: Chain of Custody
Page 2 of 4

Job Change Order: F81244_4/5/2011

Requested Date:	4/5/2011	**Received Date:**	4/1/2011
Account Name:	BFA Environmental Consultants	**Due Date:**	4/15/2011
Project Description:	NTC Orlando, Orlando, FL	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	1

Sample #:
F81244-1-3, 5,6

Change: Please remove Mn from login per request of client. Thank you.

Sample #:
F81244-4

Change: Please correct login, COC only requests VOC's for this sample.
Thank you.

OLD-OU2-LG1

Above Changes client, John Willis, via telephone **Date:** 4/5/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Job Change Order: F81244_4/5/2011

Requested Date:	4/5/2011	**Received Date:**	4/1/2011
Account Name:	BFA Environmental Consultants	**Due Date:**	4/15/2011
Project Description:	NTC Orlando, Orlando, FL	**Deliverable:**	COMMB
CSR:	JDS	**TAT (Days):**	1

Sample #:
F81244-1-3, 5, 6

Change: Please remove Mn from login per request of client. Thank you.

F81244: Chain of Custody
Page 4 of 4

Above Changes client, John Willis, via telephone **Date:** 4/5/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81244
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3078-MB	B074798.D	1	04/12/11	AJ	n/a	n/a	VB3078

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81244-1, F81244-2, F81244-3, F81244-4, F81244-5, F81244-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	111%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: F81244
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3078-BS	B074796.D	1	04/12/11	AJ	n/a	n/a	VB3078

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81244-1, F81244-2, F81244-3, F81244-4, F81244-5, F81244-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.0	100	83-124
156-59-2	cis-1,2-Dichloroethylene	25	24.4	98	81-114
98-82-8	Isopropylbenzene	25	29.2	117	87-131
75-09-2	Methylene chloride	25	26.1	104	69-125
127-18-4	Tetrachloroethylene	25	25.6	102	80-131
79-01-6	Trichloroethylene	25	25.9	104	85-124
75-01-4	Vinyl chloride	25	24.3	97	57-153

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	112%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	102%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81244
Account: BFACFLO BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81244-5MS	B074810.D	1	04/12/11	AJ	n/a	n/a	VB3078
F81244-5MSD	B074811.D	1	04/12/11	AJ	n/a	n/a	VB3078
F81244-5	B074803.D	1	04/12/11	AJ	n/a	n/a	VB3078

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81244-1, F81244-2, F81244-3, F81244-4, F81244-5, F81244-6

CAS No.	Compound	F81244-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	25	26.5	106	23.2	93	13*	83-124/11
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	25.2	101	22.0	88	14*	81-114/10
98-82-8	Isopropylbenzene	1.0	U	25	30.7	123	27.0	108	13*	87-131/10
75-09-2	Methylene chloride	5.0	U	25	27.9	112	23.4	94	18*	69-125/11
127-18-4	Tetrachloroethylene	1.0	U	25	26.7	107	23.6	94	12	80-131/12
79-01-6	Trichloroethylene	1.0	U	25	27.0	108	23.9	96	12*	85-124/10
75-01-4	Vinyl chloride	1.0	U	25	21.8	87	20.1	80	8	57-153/22

CAS No.	Surrogate Recoveries	MS	MSD	F81244-5	Limits
1868-53-7	Dibromofluoromethane	108%	106%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	114%	114%	114%	76-127%
2037-26-5	Toluene-D8	99%	99%	100%	86-112%
460-00-4	4-Bromofluorobenzene	104%	104%	104%	84-120%

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81244
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	-1.7	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1		
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20375: F81244-1, F81244-2, F81244-3, F81244-5, F81244-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81244
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Metal	F81244-1 Original	DUP	RPD	QC Limits	F81244-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Prep Date:			04/14/11					04/14/11	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	444	439	1.1	0-20	444	25800	26000	97.5	80-120
Lead									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP20375: F81244-1, F81244-2, F81244-3, F81244-5, F81244-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81244
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 04/14/11

Metal	F81244-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	444	26000	26000	98.3	0.8	20
Lead						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP20375: F81244-1, F81244-2, F81244-3, F81244-5, F81244-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81244
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	26400	26000	101.5	80-120
Lead				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20375: F81244-1, F81244-2, F81244-3, F81244-5, F81244-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81244
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	F81244-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	444	434	2.3	0-10
Lead				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP20375: F81244-1, F81244-2, F81244-3, F81244-5, F81244-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F81244
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

QC Batch ID: MP20375
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/14/11

Metal	Sample ml	Final ml	F81244-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	444.3	435.414	3643	0.2	150	3000	106.9	80-120
Lead										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20375: F81244-1, F81244-2, F81244-3, F81244-5, F81244-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

April 28, 2011

Muna Mohammed
Accutest Laboratories
4405 Vineland St.
Suite C-15
Orlando, FL 32811

RE: **F81422X**
Microseeps Workorder: 1159

Dear Muna Mohammed:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, April 14, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Hauser 04/28/2011
hhauser@microseeps.com

Enclosures

Total Number of Pages 17

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 1159 F81422X

Lab ID	Sample ID	Matrix	Date Collected	Date Received
11590001	OLD-OU2-42B	Water	4/7/2011 11:05	4/14/2011 14:30
11590002	OLD-OU2-43B	Water	4/7/2011 11:59	4/14/2011 14:30
11590003	OLD-OU2-47B	Water	4/7/2011 12:55	4/14/2011 14:30
11590004	OLD-OU2-49B	Water	4/7/2011 13:42	4/14/2011 14:30
11590005	OLD-OU2-18B	Water	4/7/2011 13:55	4/14/2011 14:30
11590006	OLD-OU2-51B	Water	4/7/2011 15:06	4/14/2011 14:30
11590007	OLD-OU2-DUP02A	Water	4/7/2011 15:44	4/14/2011 14:30

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PROJECT SUMMARY

Workorder: 1159 F81422X

Workorder Comments

Sample 1159(0007) was reanalyzed on 4/26/2011 to confirm the results.

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: **11590001** Date Received: 4/14/2011 14:30 Matrix: Water

Sample ID: **OLD-OU2-42B** Date Collected: 4/7/2011 11:05

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	1100	ug/l	0.10	0.023	1			4/19/2011 15:33	GT		
Ethane	0.17	ug/l	0.025	0.0050	1			4/19/2011 15:33	GT		
Ethene	2.7	ug/l	0.025	0.0080	1			4/19/2011 15:33	GT		
Carbon Dioxide	160	mg/l	5.0	0.12	1			4/19/2011 15:33	GT		
Oxygen	2.0	mg/l	0.50	0.063	1			4/19/2011 15:33	GT		
Nitrogen	14	mg/l	0.50	0.13	1			4/19/2011 15:33	GT		

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: 11590002 Date Received: 4/14/2011 14:30 Matrix: Water
Sample ID: OLD-OU2-43B Date Collected: 4/7/2011 11:59

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	840	ug/l	0.10	0.023	1			4/19/2011 15:45	GT		
Ethane	0.43	ug/l	0.025	0.0050	1			4/19/2011 15:45	GT		
Ethene	6.3	ug/l	0.025	0.0080	1			4/19/2011 15:45	GT		
Carbon Dioxide	180	mg/l	5.0	0.12	1			4/19/2011 15:45	GT		
Oxygen	1.7	mg/l	0.50	0.063	1			4/19/2011 15:45	GT		
Nitrogen	14	mg/l	0.50	0.13	1			4/19/2011 15:45	GT		

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: 11590003 Date Received: 4/14/2011 14:30 Matrix: Water
Sample ID: OLD-OU2-47B Date Collected: 4/7/2011 12:55

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	380	ug/l	0.10	0.023	1			4/19/2011 15:57	GT		
Ethane	0.056	ug/l	0.025	0.0050	1			4/19/2011 15:57	GT		
Ethene	0.66	ug/l	0.025	0.0080	1			4/19/2011 15:57	GT		
Carbon Dioxide	170	mg/l	5.0	0.12	1			4/19/2011 15:57	GT		
Oxygen	1.6	mg/l	0.50	0.063	1			4/19/2011 15:57	GT		
Nitrogen	14	mg/l	0.50	0.13	1			4/19/2011 15:57	GT		

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: **11590004** Date Received: 4/14/2011 14:30 Matrix: Water

Sample ID: **OLD-OU2-49B** Date Collected: 4/7/2011 13:42

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	320	ug/l	0.10	0.023	1			4/19/2011 16:10	GT		
Ethane	0.14	ug/l	0.025	0.0050	1			4/19/2011 16:10	GT		
Ethene	1.9	ug/l	0.025	0.0080	1			4/19/2011 16:10	GT		
Carbon Dioxide	110	mg/l	5.0	0.12	1			4/19/2011 16:10	GT		
Oxygen	3.6	mg/l	0.50	0.063	1			4/19/2011 16:10	GT		
Nitrogen	14	mg/l	0.50	0.13	1			4/19/2011 16:10	GT		

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: **11590005** Date Received: 4/14/2011 14:30 Matrix: Water

Sample ID: **OLD-OU2-18B** Date Collected: 4/7/2011 13:55

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	13000	ug/l	0.10	0.023	1			4/19/2011 16:22	GT		
Ethane	0.025 U	ug/l	0.025	0.0050	1			4/19/2011 16:22	GT		
Ethene	100	ug/l	0.025	0.0080	1			4/19/2011 16:22	GT		
Carbon Dioxide	200	mg/l	5.0	0.12	1			4/19/2011 16:22	GT		
Oxygen	0.95	mg/l	0.50	0.063	1			4/19/2011 16:22	GT		
Nitrogen	6.5	mg/l	0.50	0.13	1			4/19/2011 16:22	GT		

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: **11590006** Date Received: 4/14/2011 14:30 Matrix: Water

Sample ID: **OLD-OU2-51B** Date Collected: 4/7/2011 15:06

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	17000	ug/l	0.10	0.023	1			4/19/2011 16:34	GT		
Ethane	0.14	ug/l	0.025	0.0050	1			4/19/2011 16:34	GT		
Ethene	3.4	ug/l	0.025	0.0080	1			4/19/2011 16:34	GT		
Carbon Dioxide	290	mg/l	5.0	0.12	1			4/19/2011 16:34	GT		
Oxygen	1.1	mg/l	0.50	0.063	1			4/19/2011 16:34	GT		
Nitrogen	5.3	mg/l	0.50	0.13	1			4/19/2011 16:34	GT		

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ANALYTICAL RESULTS

Workorder: 1159 F81422X

Lab ID: **11590007** Date Received: 4/14/2011 14:30 Matrix: Water

Sample ID: **OLD-OU2-DUP02A** Date Collected: 4/7/2011 15:44

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK											
Analysis Desc: AM20GAX			Analytical Method: AM20GAX								
Methane	2100	ug/l	0.10	0.023	1			4/19/2011 16:47	GT		
Ethane	0.025	ug/l	0.025	0.0050	1			4/19/2011 16:47	GT		
Ethene	0.14	ug/l	0.025	0.0080	1			4/19/2011 16:47	GT		
Carbon Dioxide	150	mg/l	5.0	0.12	1			4/19/2011 16:47	GT		
Oxygen	2.0	mg/l	0.50	0.063	1			4/19/2011 16:47	GT		
Nitrogen	15	mg/l	0.50	0.13	1			4/19/2011 16:47	GT		

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 1159 F81422X

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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QUALITY CONTROL DATA

Workorder: 1159 F81422X

QC Batch: DISG/1055 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 11590001, 11590002, 11590003, 11590004, 11590005, 11590006, 11590007

METHOD BLANK: 1474

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

METHOD BLANK: 1475

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Carbon Dioxide	mg/l	5.0 U	5.0	
Oxygen	mg/l	0.50 U	0.50	
Nitrogen	mg/l	0.50 U	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 1476 1478

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	860	810	100	98	80-120	2	20	
Ethane	ug/l	45	51	46	110	100	80-120	9.5	20	
Ethene	ug/l	41	46	42	110	100	80-120	9.5	20	

LABORATORY CONTROL SAMPLE & LCSD: 1477 1479

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Carbon Dioxide	mg/l	130	140	140	110	110	80-120	0	20	
Oxygen	mg/l		12	21						
Nitrogen	mg/l		140	150						

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 1159 F81422X

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
11590001	OLD-OU2-42B			AM20GAX	DISG/1055
11590002	OLD-OU2-43B			AM20GAX	DISG/1055
11590003	OLD-OU2-47B			AM20GAX	DISG/1055
11590004	OLD-OU2-49B			AM20GAX	DISG/1055
11590005	OLD-OU2-18B			AM20GAX	DISG/1055
11590006	OLD-OU2-51B			AM20GAX	DISG/1055
11590007	OLD-OU2-DUP02A			AM20GAX	DISG/1055

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Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX: 407-425-0707
www.accutest.com

1159

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F81422X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	BIOGENIC GASES - MEE, N2, DO, CO2	LAB USE ONLY
1	OLD-OU2-42B	04/07/11	11:05		GW	2	X									X	
2	OLD-OU2-43B	04/07/11	11:59		GW	2	X									X	
4	OLD-OU2-47B	04/07/11	12:55		GW	2	X									X	
7	OLD-OU2-49B	04/07/11	13:42		GW	2	X									X	
9	OLD-OU2-18B	04/07/11	13:55		GW	2	X									X	
10	OLD-OU2-51B	04/07/11	15:06		GW	2	X									X	
11	OLD-OU2-DUP02A	04/07/11	15:44		GW	2	X									X	

Turnaround Time (Business days)

Std. 10 Business Days — Approved By: / Date/Rush Code:
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY* — Dwi
2 Day *EMERGENCY*
1 Day *EMERGENCY* — 04.25.11
Other

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - microseeps
Approved by - Munam

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	04/11/1700	2 FR	3 FR		4 04/14/11
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: ____

3°C 04/14

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81308
Account: BFACFLO - BFA Environmental Consultants
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP16791/GN44049	F81368-2	mg/l	3.6	50	54.2	101.2	90-110%
Nitrogen, Nitrate	GP16791/GN44049	F81368-2	mg/l	0.094	2.5	2.5	96.2	90-110%
Nitrogen, Nitrite	GP16791/GN44049	F81368-2	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Sulfate	GP16791/GN44049	F81368-2	mg/l	5.0	50	55.0	100.0	90-110%
Total Organic Carbon	GP16858/GN44267	F81308-3F	mg/l	6.3	15	19.3	86.7N(a)	90-110%

Associated Samples:
Batch GP16791: F81308-1, F81308-2, F81308-3, F81308-4, F81308-5, F81308-6, F81308-7
Batch GP16858: F81308-1F, F81308-2F, F81308-3F, F81308-4F, F81308-5F, F81308-6F, F81308-7F
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

microseeps
from insight comes solutions

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Page: Page 1 of 10
Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Laboratory Results

Total pages in data package: 11

Lab Sample #	Client Sample ID
P1104075-01	OLD-OU2-48B
P1104075-02	OLD-OU2-44B
P1104075-03	OLD-OU2-45B
P1104075-04	OLD-OU2-50B
P1104075-05	OLD-OU2-41B
P1104075-06	OLD-OU2-46B
P1104075-07	OLD-OU2-53B

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 4.22.11

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-48B	Water	P1104075-01	04 Apr. 11 11:53	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		290.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.120	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		2.300	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		15000.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		6.40	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.40	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-44B	Water	P1104075-02	04 Apr. 11 12:03	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		97.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.018	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.720	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		1600.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		9.50	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		3.90	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-45B	Water	P1104075-03	04 Apr. 11 14:10	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		220.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.044	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.980	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		4500.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		8.90	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		3.10	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-50B	Water	P1104075-04	04 Apr. 11 14:12	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		230.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.120	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		2.200	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		12000.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		9.50	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.70	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-41B	Water	P1104075-05	04 Apr. 11 15:24	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		130.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.010	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.250	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		500.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		12.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		4.70	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-46B	Water	P1104075-06	04 Apr. 11 15:51	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		140.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.360	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		5.000	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		1500.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		12.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		2.00	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-53B	Water	P1104075-07	04 Apr. 11 16:21	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		170.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.025	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		12.000	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		4300.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		8.20	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		2.80	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Client Name: Accutest Laboratories
Contact: Muna Mohammed
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Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Prep Method: In House Dissolved Gas Sample Preparation
Analysis Method: Light Hydrocarbons (C1-C4) in Water

M110416005-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.025	ug/L		0.025		- NA
Ethene	< 0.025	ug/L		0.025		- NA
Methane	< 0.100	ug/L		0.100		- NA

M110416005-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	46.000	ug/L	45.00	102.00	80 - 120
Ethene	42.000	ug/L	40.80	103.00	80 - 120
Methane	780.000	ug/L	825.00	95.00	80 - 120

M110416005-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	44.000	ug/L	45.00	98.00	80 - 120	4.44	0 - 20
Ethene	41.000	ug/L	40.80	100.00	80 - 120	2.41	0 - 20
Methane	760.000	ug/L	825.00	92.00	80 - 120	2.60	0 - 20

Outlined Results indicate results outside of Control limits

PA02-00538

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Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
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Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Prep Method: In House Dissolved Gas Sample Preparation
Analysis Method: Analysis of Dissolved Permanent Gases in Water

M110416006-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Carbon dioxide	< 5.00	mg/L		5.00		- NA
Oxygen	< 0.50	mg/L		0.50		- NA
Nitrogen	< 0.50	mg/L		0.50		- NA

M110416006-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Carbon dioxide	140.00	mg/L	129.30	108.00	80 - 120

M110416006-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Carbon dioxide	140.00	mg/L	129.30	108.00	80 - 120	0.00	0 - 20

Outlined Results indicate results outside of Control limits

PA02-00538

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Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

P1104075 PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F81308X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	BIOGENIC GASES - MEE, N2, DO, CO2	LAB USE ONLY
1	OLD-OU2-48B	04/04/11	11:53		GW	2	X									X	
2	OLD-OU2-44B	04/04/11	12:03		GW	2	X									X	
3	OLD-OU2-45B	04/04/11	14:10		GW	2	X									X	
4	OLD-OU2-50B	04/04/11	14:12		GW	2	X									X	
5	OLD-OU2-41B	04/04/11	15:24		GW	2	X									X	
6	OLD-OU2-46B	04/04/11	15:51		GW	2	X									X	
7	OLD-OU2-53B	04/04/11	16:21		GW	2	X									X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Microseeps
Approved by - Mura Mohammed

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	04-07-11 1200	2 FR	3 FR		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8 4/8/11 1020

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

4°C 4/8/11

microseeps
from insight comes solutions

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Page: Page 1 of 10
Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Laboratory Results

Total pages in data package: 11

Lab Sample #	Client Sample ID
P1104075-01	OLD-OU2-48B
P1104075-02	OLD-OU2-44B
P1104075-03	OLD-OU2-45B
P1104075-04	OLD-OU2-50B
P1104075-05	OLD-OU2-41B
P1104075-06	OLD-OU2-46B
P1104075-07	OLD-OU2-53B

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 4.22.11

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-48B	Water	P1104075-01	04 Apr. 11 11:53	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		290.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.120	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		2.300	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		15000.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		6.40	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.40	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

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Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
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N Ethane	J	0.018	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.720	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		1600.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		9.50	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		3.90	0.50	mg/L	AM20GAX	4/16/11	sl

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RiskAnalysis							
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Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-50B	Water	P1104075-04	04 Apr. 11 14:12	08 Apr. 11 10:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		230.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.120	0.025	ug/L	AM20GAX	4/16/11	sl
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N Methane		12000.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		9.50	0.50	mg/L	AM20GAX	4/16/11	sl
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RiskAnalysis							
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RiskAnalysis							
N Carbon dioxide		170.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.025	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		12.000	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		4300.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		8.20	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		2.80	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Prep Method: In House Dissolved Gas Sample Preparation
Analysis Method: Light Hydrocarbons (C1-C4) in Water

M110416005-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.025	ug/L		0.025		- NA
Ethene	< 0.025	ug/L		0.025		- NA
Methane	< 0.100	ug/L		0.100		- NA

M110416005-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	46.000	ug/L	45.00	102.00	80 - 120
Ethene	42.000	ug/L	40.80	103.00	80 - 120
Methane	780.000	ug/L	825.00	95.00	80 - 120

M110416005-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	44.000	ug/L	45.00	98.00	80 - 120	4.44	0 - 20
Ethene	41.000	ug/L	40.80	100.00	80 - 120	2.41	0 - 20
Methane	760.000	ug/L	825.00	92.00	80 - 120	2.60	0 - 20

Outlined Results indicate results outside of Control limits

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104075
Report Date: 04/18/11
Client Proj Name: F81308X
Client Proj #: F81308X

Prep Method: In House Dissolved Gas Sample Preparation
Analysis Method: Analysis of Dissolved Permanent Gases in Water

M110416006-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Carbon dioxide	< 5.00	mg/L		5.00		- NA
Oxygen	< 0.50	mg/L		0.50		- NA
Nitrogen	< 0.50	mg/L		0.50		- NA

M110416006-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Carbon dioxide	140.00	mg/L	129.30	108.00	80 - 120

M110416006-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Carbon dioxide	140.00	mg/L	129.30	108.00	80 - 120	0.00	0 - 20

Outlined Results indicate results outside of Control limits

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

P1104075 PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F81308X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	BIOGENIC GASES - MEE, N2, DO, CO2	LAB USE ONLY
1	OLD-OU2-48B	04/04/11	11:53		GW	2	X									X	
2	OLD-OU2-44B	04/04/11	12:03		GW	2	X									X	
3	OLD-OU2-45B	04/04/11	14:10		GW	2	X									X	
4	OLD-OU2-50B	04/04/11	14:12		GW	2	X									X	
5	OLD-OU2-41B	04/04/11	15:24		GW	2	X									X	
6	OLD-OU2-46B	04/04/11	15:51		GW	2	X									X	
7	OLD-OU2-53B	04/04/11	16:21		GW	2	X									X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Microseeps
Approved by - Mura Mohammed

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	04-07-11 1200	2 FR	3 FR		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8 4/8/11 1020

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

4°C 4/8/11

microseeps
From insight comes solutions

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Laboratory Results

Total pages in data package: 10

Lab Sample #	Client Sample ID
P1104095-01	OLD-OU2-02A
P1104095-02	OLD-OU2-29A
P1104095-03	OLD-OU2-02B
P1104095-04	OLD-OU2-29B
P1104095-05	OLD-OU2-03A
P1104095-06	OLD-OU2-03B

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser (RA) ***Date:*** 4/26/11

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-02A	Water	P1104095-01	06 Apr. 11 11:30	11 Apr. 11 10:44

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		220.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.015	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.026	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		1600.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		12.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		2.10	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-29A	Water	P1104095-02	06 Apr. 11 11:52	11 Apr. 11 10:44

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		81.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	U	< 0.025	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene	J	0.024	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		82.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		18.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		3.40	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-02B	Water	P1104095-03	06 Apr. 11 12:31	11 Apr. 11 10:44

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		160.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.009	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene	J	0.015	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		570.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		12.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.50	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-29B	Water	P1104095-04	06 Apr. 11 13:25	11 Apr. 11 10:44

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		95.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.230	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.030	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		800.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		14.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.80	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-03A	Water	P1104095-05	06 Apr. 11 13:51	11 Apr. 11 10:44

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		210.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane	J	0.016	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene	J	0.018	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		170.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		12.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.50	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
OLD-OU2-03B	Water	P1104095-06	06 Apr. 11 15:08	11 Apr. 11 10:44

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Carbon dioxide		190.00	5.00	mg/L	AM20GAX	4/16/11	sl
N Ethane		0.032	0.025	ug/L	AM20GAX	4/16/11	sl
N Ethene		0.028	0.025	ug/L	AM20GAX	4/16/11	sl
N Methane		240.000	0.100	ug/L	AM20GAX	4/16/11	sl
N Nitrogen		16.00	0.50	mg/L	AM20GAX	4/16/11	sl
N Oxygen		1.80	0.50	mg/L	AM20GAX	4/16/11	sl

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Prep Method: In House Dissolved Gas Sample Preparation
Analysis Method: Light Hydrocarbons (C1-C4) in Water

M110416005-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.025	ug/L		0.025		- NA
Ethene	< 0.025	ug/L		0.025		- NA
Methane	< 0.100	ug/L		0.100		- NA

M110416005-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	46.000	ug/L	45.00	102.00	80 - 120
Ethene	42.000	ug/L	40.80	103.00	80 - 120
Methane	780.000	ug/L	825.00	95.00	80 - 120

M110416005-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	44.000	ug/L	45.00	98.00	80 - 120	4.44	0 - 20
Ethene	41.000	ug/L	40.80	100.00	80 - 120	2.41	0 - 20
Methane	760.000	ug/L	825.00	92.00	80 - 120	2.60	0 - 20

Outlined Results indicate results outside of Control limits

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Laboratories
Contact: Muna Mohammed
Address: 4405 Vineland St.
Suite C-15
Orlando, FL 32811

Lab Proj #: P1104095
Report Date: 04/18/11
Client Proj Name: F81361X
Client Proj #: F81361X

Prep Method: In House Dissolved Gas Sample Preparation
Analysis Method: Analysis of Dissolved Permanent Gases in Water

M110416006-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Carbon dioxide	< 5.00	mg/L		5.00		- NA
Oxygen	< 0.50	mg/L		0.50		- NA
Nitrogen	< 0.50	mg/L		0.50		- NA

M110416006-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Carbon dioxide	140.00	mg/L	129.30	108.00	80 - 120

M110416006-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Carbon dioxide	140.00	mg/L	129.30	108.00	80 - 120	0.00	0 - 20

Outlined Results indicate results outside of Control limits

PA02-00538

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

R104095

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F81361X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	BIOGENIC GASES - MEE, N2, DO, CO2	LAB USE ONLY
1	OLD-OU2-02A	04/06/11	11:30		GW	2	X									X	
2	OLD-OU2-29A	04/06/11	11:52		GW	2	X									X	
3	OLD-OU2-02B	04/06/11	12:31		GW	2	X									X	
4	OLD-OU2-29B	04/06/11	13:25		GW	2	X									X	
5	OLD-OU2-03A	04/06/11	13:51		GW	2	X									X	
6	OLD-OU2-03B	04/06/11	15:08		GW	2	X									X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:
Due
4/21/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Microzeps
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By/Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	04/08/11 1200	2	3		4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time: 4/9/11 1200	Received By/Affiliation Microzeps

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____