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NAS KEY WEST
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BASELINE SAMPLING REPORT FOR SITE C-2076 TRUMBO POINT BACHELOR OFFICER QUARTERS NAS KEY WEST FL

7/1/2000

BLASLAND, BOUCK AND LEE

REPORT

Baseline Sampling Report

Site C-2076, Trumbo Point BOQ
NAS Key West, Florida
FDEP Facility ID No. 449800230

Department of the Navy
Key West, Florida 33040

July 2000

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

TECHNICAL REPORT

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engineers & scientists

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Statement of Geologic Review

In accordance with Chapter 492.111 (3) of the Florida Statutes, this Baseline Sampling Report prepared for Site C-2076, Trumbo Point BOQ located at the U.S. Naval Air Station (NAS) in Key West, Florida has been reviewed by a Professional Geologist registered in the state of Florida.

Approved for Submittal:

Amanda Shearer, P.G.
License No. 0001116
Date: 7/27/00

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1. Introduction and Background Information

Blasland, Bouck & Lee, Inc. (BBL) prepared this Baseline Sampling Report to document current ground-water quality conditions prior to the preparation of a Remedial Action Plan can be prepared for the site. The site is near Building C-2076, the Trumbo Point Bachelor's Officer Quarters (BOQ), at U.S. Naval Air Station (NAS) Key West, Florida. The source of petroleum hydrocarbons at the site is suspected to be from a former underground pipeline from the diesel aboveground storage tank (AST). The Florida Department of Environmental Protection (FDEP) facility identification number for the site is 449800230.

1.1 Purpose

The purpose of conducting baseline sampling was to determine the current ground-water quality as the initial phase to developing a Remedial Action Plan (RAP) for the site.

Pursuant to Contract Number N62467-99-D-2745, the United States Navy (USN) authorized BBL to initiate the first phase of remedial activities (baseline sampling) at the site on March 23, 2000. The field activities were conducted in April 2000. This report presents a summary of these activities, results of the ground-water quality assessment, and a recommendation to continue RAP preparation and associated pilot testing at the site.

1.2 Site Location and Area of Investigation

Building C-2076 is the Trumbo Point BOQ, located in Section 32, Township 67S, Range 25E, as referenced on the Key West, Florida U.S. Geological Survey Topographic Quadrangle Map (**Figure 1-1**).

The site is near the corner of Chevalier Avenue and Ely Street and encompasses much of the parking area on the west wing of the BOQ building, likely extending beneath the building. Most of the area around the site is paved parking area. The USN owns all of the surrounding property to the site. The site topography is flat and the elevation of the site is approximately 10 feet above mean sea level (MSL). The site is bounded on the north by Towers Avenue, on the east by Chambers Street, on the south by Chevalier Avenue, and on the west by Building 2078, Building 2081 and Ely Street. Within one-quarter-mile radius of the site are the Gulf of Mexico to the north, and Garrison Bight to the east.

Figure 1-2 shows the site layout. A 1,000-gallon diesel above ground storage tank (AST) with secondary containment is on site (C-2076), which is used to fuel the water heaters for the BOQ. Also on site is an above ground propane tank. A water line and valve pit, where the leak was first discovered, is present near the propane tank. An abandoned fuel line reportedly exists on the southern portion of the site, passing near the water valve pit. The exact location of the abandoned line is not known, so is not shown on **Figure 1-2**.

1.3 Site History

The Navy first discovered free petroleum product at the site on February 27, 1998, during a routine inspection of a water line valve pit (PWC, June 1999). Public Works Department (PWD), NAS Key West submitted a Discharge Reporting Form (DRF) to the FDEP on March 3, 1998, which estimated the amount discharged to be less than five gallons. A second DRF was filed for the site on March 11, 1998, after a tightness test was conducted on the underground piping from the diesel AST (C-2076). The cause of the release was indicated to be corroded piping

and the product discharged was indicated to be JP-5 jet fuel. One line failed the pressure test and the line was taken out of service.

Approximately 55 cubic yards of contaminated soil and approximately 10 gallons of free product were removed in the vicinity of the valve pit from March 12 through March 14, 1998. The excavation location is shown on **Figure 1-2**. Complete soil remediation was not possible due to the proximity of the building and an active propane gas supply line. A monitoring well was installed in the excavation area and ground-water sample results indicated petroleum hydrocarbon levels greater than the allowable state target levels for benzene, with a result of 5 micrograms per liter (ug/L), acenaphthene at 50 ug/L, and naphthalene at 460 ug/L. A Source Removal Report was submitted to the FDEP by the Navy on October 14, 1998.

The source(s) of the petroleum impacts at the site is uncertain. The diesel AST C-2076 was replaced in 1998 and the underground piping was replaced with aboveground piping. Petroleum was noted in the ground during this pipe replacement, as stated above. Also, according to Navy engineering personnel, a gasoline line ran along Chevalier Avenue and branched north into the parking lot of the BOQ, where it split going to the east and west toward buildings. This line reportedly still exists in the ground and may have fed an abandoned underground storage tank (UST) that possibly exists in the vicinity of the propane tank or underneath the BOQ building. One additional source for petroleum hydrocarbons on site is the generator diesel piping beneath the building. Approximately a year ago, diesel fumes associated with a generator in the BOQ building reportedly caused an evacuation. There may have been diesel leaks in this area.

A site assessment was conducted by PWC Pensacola and a Site Assessment Report (SAR) dated June 1999 was submitted to FDEP. **Figure 1-2** shows the location of monitoring wells installed for the SAR. The SAR concluded that free product exists on site, soil contamination exceeding Chapter 62-777, FAC targets for industrial use exposure is not present, and ground water petroleum hydrocarbon concentrations exceed Chapter 62-777, FAC targets. FDEP approved the SAR on July 9, 1999, concurring with the recommendation to prepare a RAP for the site.

2. Data Collection and Analysis

2.1 Ground-Water Sampling

All sampling was performed in accordance with BBL's Comprehensive Quality Assurance Plan (CompQAP No. 880552G) approved by FDEP. The laboratory used for analytical services, Accutest Laboratories, also has an approved CompQAP on file with FDEP.

Samples were collected for laboratory analysis to assess the current concentrations of petroleum constituents in the ground water at the site and to collect data needed for preparation of a RAP. Monitoring wells MW-2, MW-4, MW-5, MW-6, MW-8, MW-9, MW-13, DMW-18 (vertical extent well), MW-19, and MW-20 were sampled on April 21, 2000. A trip blank was transported to and from the site in the sample cooler for quality assurance/quality control.

To ensure the presence of formation water in the wells, the water levels and well depths were recorded for the wells, then the monitoring wells were purged of three to five well volumes until the pH, specific conductance, and temperature had stabilized as measured using a Hydac® water quality instrument. Stabilization was considered complete when consecutive measurements of each parameter varied no more than 5 percent. Dissolved oxygen (D.O.) and oxygen reduction potential (ORP) measurements were also collected. The Hydac® was calibrated according to the manufacturer's directions prior to sampling the purge water. Purging was accomplished using pre-cleaned, dedicated polyethylene tubing and a peristaltic pump operating at a low flow rate of less than 1 liter per minute. Purge water was discharged onto the source area. Field measurements are provided in **Table 2-1**.

Once purging was completed, samples were collected using pre-cleaned, dedicated disposable Teflon® bailers. Copies of the field water sampling logs are included in **Appendix A**.

The samples were collected and placed in laboratory-prepared (appropriately preserved) sample containers, stored under ice, and shipped via overnight courier in sealed coolers to the laboratory. Because diesel fuel was suspected to be discharged at the site, the samples were analyzed for the following:

a. EPA Method 602 (Volatile Aromatics, including methyl tert-butyl ether [MTBE]).
b. EPA Method 8100 (Polynuclear Aromatic Hydrocarbons [PAH]).
c. FL-PRO (Total Recoverable Petroleum Hydrocarbons [TRPH]).

In addition to the above analyses, the samples were analyzed for total iron, necessary for RAP design:

d. SW846 6010A (iron).

2.2 Free Product

BBL personnel discovered free product in three of the monitoring wells on site on April 21, 2000: MW-14, MW-15, and MW-16. The free product in these wells are noted on **Tables 2-2** and **2-3**. The thickness of the product varied from only a sheen in MW-14 to 0.33 feet (about 4 inches) in MW-16 and 2 feet in MW-15. The product appeared very dark and weathered. These three wells are located in the northern portion of the study area, adjacent to the loading docks at the BOQ. The SAR reported that MW-15 had approximately 1.5 inches of free product on April 12, 1999.

2.3 Ground-Water Analytical Results

Ground-water laboratory analytical results indicated benzene in two monitoring well samples above the Chapter 62-777, FAC target level of 1 ug/L, with concentrations of 3.1 ug/L in MW-5 and 7.1 ug/L in the sample from MW-9. No other volatile organic aromatic (VOA) constituents exceeded target levels in the wells sampled. **Figure 2-1** shows the ground-water analytical results for VOAs and **Figure 2-2** shows the estimated extent of total VOAs in ground water on April 21, 2000.

Naphthalene concentrations exceeding the target level of 20 ug/L were detected in the samples from wells MW-5 (872 ug/L), MW-6 (55.9 ug/L), and MW-9 (169 ug/L). 1-methylnaphthalene and 2-methylnaphthalene were detected above the target levels of 20 µg/L in the sample from MW-6, with concentrations of 49.6 µg/L and 69.6 µg/L, respectively. Several PAHs were detected above target levels in the sample from MW-6. In the sample from MW-5, the 2-methylnaphthalene concentration was 123 ug/L; however, the detection limit for 1-methylnaphthalene and all other polynuclear aromatic hydrocarbon (PAH) was elevated to 100 ug/L in MW-5. Therefore, the constituents may be present at concentrations less than 100 ug/L.

Total Recoverable Petroleum Hydrocarbons (TRPH) were detected above the target concentration of 5 milligrams per liter (mg/L) in only one sample; MW-6 at 146 mg/L.

Figure 2-3 summarizes the ground-water analytical results for PAHs and TRPH in ground water on April 21, 2000, and **Figure 2-4** shows the estimated extent of naphthalene in ground water on April 21, 2000.

Iron concentrations ranged from 509 ug/L to 5,710 ug/L in the ground-water samples.

For vertical extent well DMW-18, which is approximately 30 feet deep, petroleum hydrocarbons were detected in the ground-water sample from the April 21, 2000 sampling event, but were all below Chapter 62-777, FAC target levels. The October 20, 1998 sampling event performed by PWC indicated naphthalene at a concentration of 47 ug/L in this well, which is above the 20 ug/L target level, as well as other constituents below target levels.

Table 2-2 summarizes the laboratory analytical results for the April 21, 2000, sampling event, as well as the October 20, 1998 sampling event as presented in the SAR. The complete laboratory report and chain-of-custody record for the April 21, 2000 sampling event are provided in **Appendix A**.

2.4 Hydraulic Gradient Determination

Top of casing of monitor well DMW-18 was surveyed relative to existing monitor wells because no elevation data existed for that well. All elevations are relative to an assumed elevation of 10 feet mean sea level (MSL). The water levels in all wells were measured on April 21, 2000. Measurements were recorded within an accuracy of 0.01 feet with a water level indicator. Ground-water elevations were determined by subtracting the depth to ground water from the relative top-of-casing elevation. The water table was encountered on site at a depth of approximately 3 feet below land surface (BLS). **Table 2-3** presents the ground-water elevation data. A ground-water contour map for April 21, 2000, is provided as **Figure 2-5**. Ground-water flow varies on site, according to the SAR, apparently influenced by tidal changes. During high tide on April 21, 2000, the flow was toward the south-southwest.

3. Conclusions and Recommendations

3.1 Conclusions

This baseline sampling event was performed to evaluate the current concentrations of petroleum hydrocarbons in the ground water resulting from discharges from former diesel piping from an AST. The following summarizes the investigation findings:

- The source of the petroleum discharges appears to be the former piping from the diesel AST; both near the AST and possibly, inside/under the BOQ building. The underground piping from the diesel AST has been removed and replaced with aboveground piping up to where it enters the building. Other potential sources of petroleum discharges include an abandoned fuel line on the southern portion of the site and possibly, an abandoned UST in the vicinity of the existing propane tank or under the BOQ building.
- Kerosene Analytical Group constituents have impacted the site.
- Free product was detected in three monitoring wells on site.
- The ground-water table is generally encountered at approximately 3 to 4 feet BLS.
- Dissolved petroleum constituents in ground water were detected in several shallow wells on site and extends vertically to at least 30 feet below land surface, as indicated by sampling results from well DMW-18.
- Ground-water sampling results from the SAR and this baseline sampling event indicate that petroleum hydrocarbons are present in the vicinity of the diesel AST and likely extend under the BOQ building.

3.2 Recommendations

BBL recommends initiating RAP preparation, as requested by the FDEP, and necessary pilot testing. Additionally, the possible existence of an UST on the southern portion of the site should be confirmed. If plans do not exist showing the location of a UST, then a ground penetrating radar survey (or other appropriate means) should be employed to attempt to locate the UST (if it exists).

4. References

Public Works Center (PWC), NAS Environmental Department, Pensacola, Florida, June 1999, "*Site Assessment Report, Site C-2076, Trumbo Point BOQ, NAS Key West, Florida.*"

U.S. Geological Survey, *Key West, Florida*: 7.5-minute orthophotomap (topographic) series, 1971.

Figures

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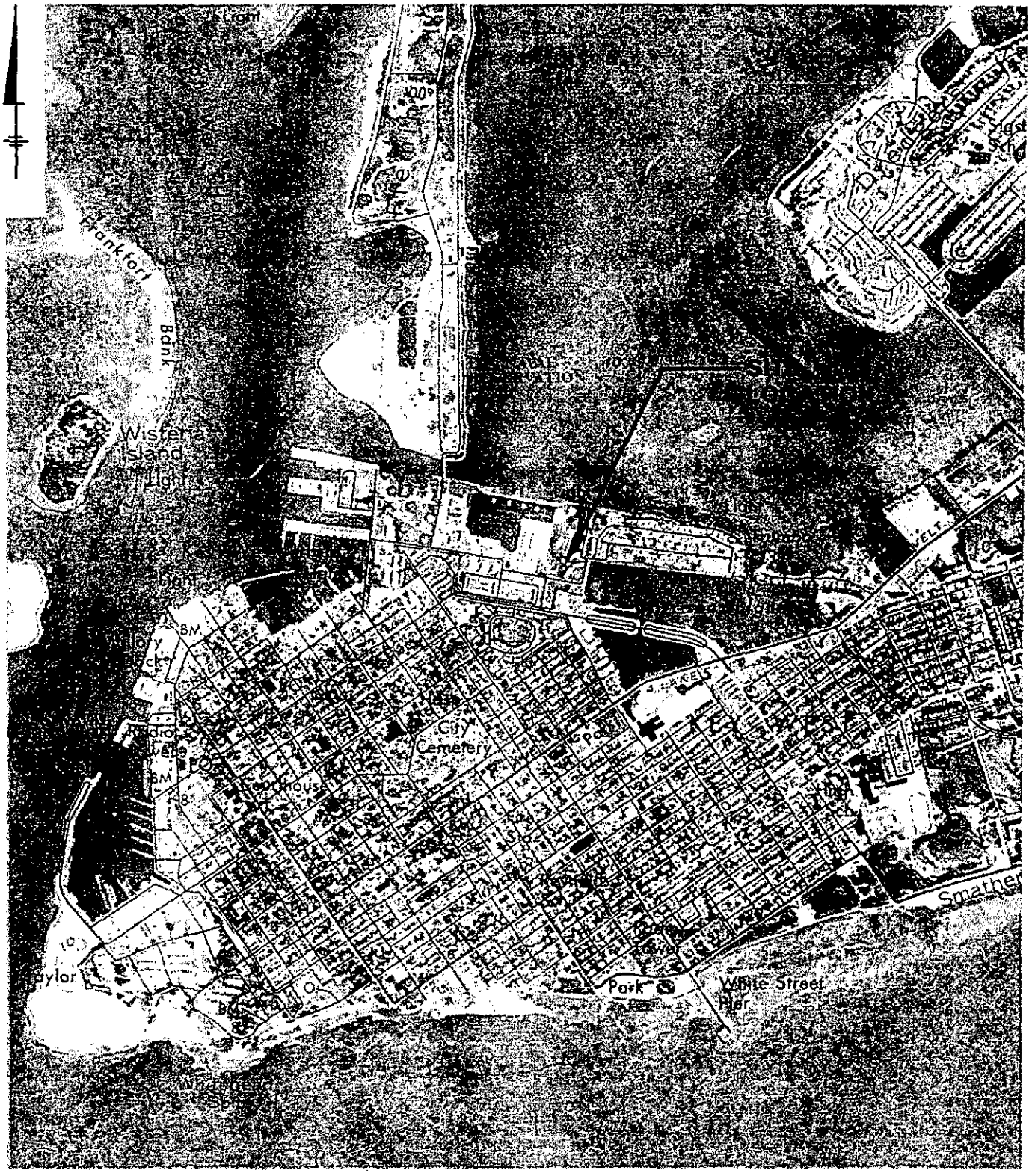
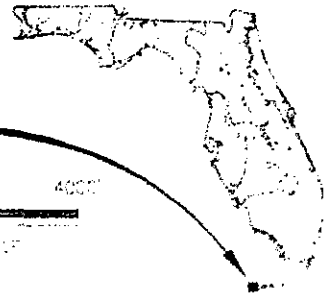
engineers & scientists



SOURCE: USGS 7.5 MIN. TOPOGRAPHIC
QUADRANGLE: KEY WEST
REVISION: 1971
COUNTY: MONROE



NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

SITE LOCATION

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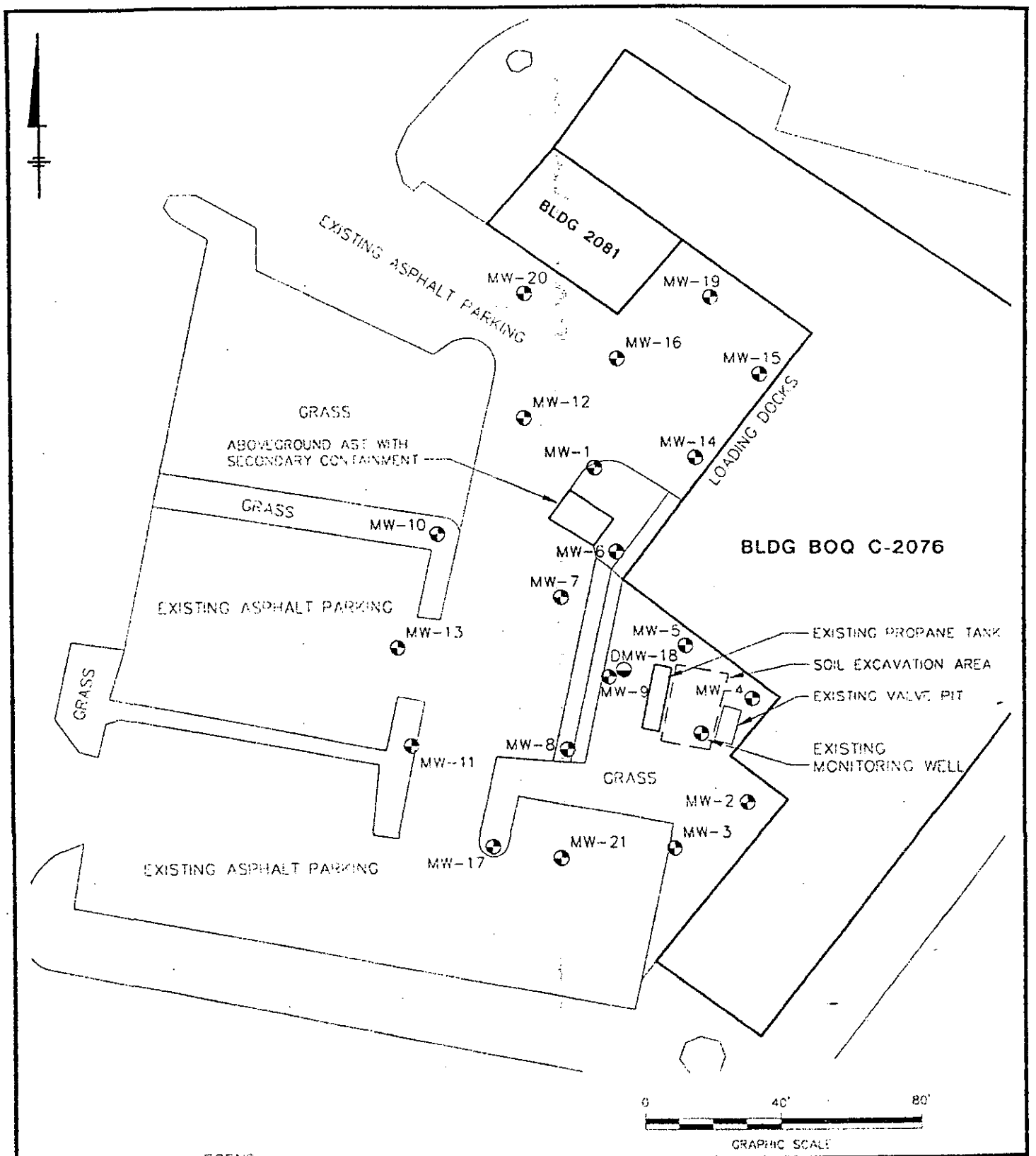
FIGURE 1-1



LEGEND

MW-17 SHALLOW MONITORING WELL

DMW-18 DEEP MONITORING WELL

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

SITE LAYOUT

SOURCE: Base map digitized from map "MONITORING WELL LOCATION MAP" provided by PUBLIC WORKS CENTER, PENSACOLA, FLORIDA. Date June 1993

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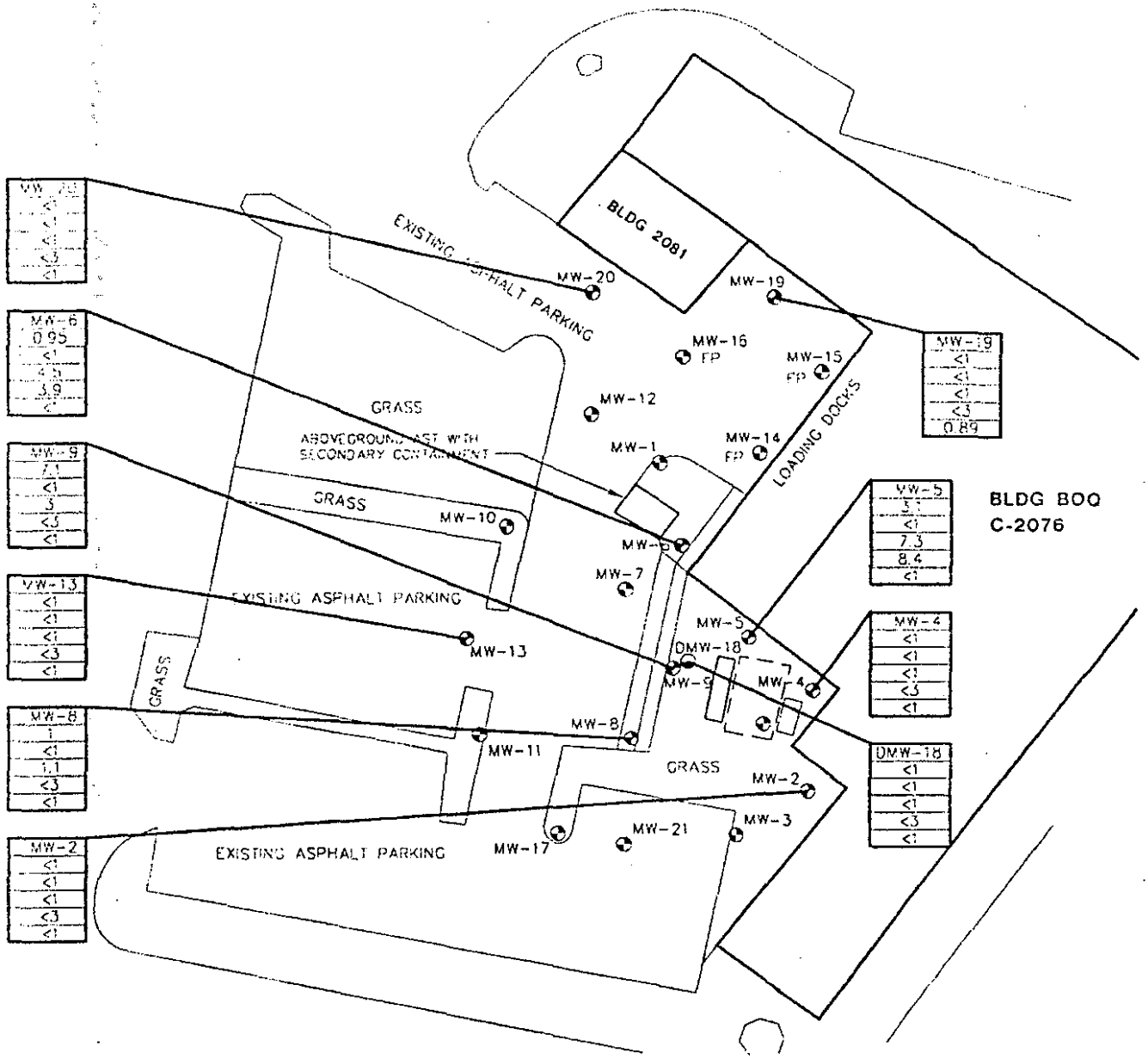
FIGURE 1-2



LEGEND

MW-17 ⊕ SHALLOW MONITORING WELL

DMW-18 ⊕ DEEP MONITORING WELL

MW-1	SAMPLE LOCATION
<1	BENZENE (µg/L)
<1	TOLUENE (µg/L)
<1	ETHYLBENZENE (µg/L)
<3	TOTAL XYLENE (µg/L)
<1	MTBE (µg/L)

(µg/L) = MICROGRAMS PER LITER

FP = FREE PRODUCT PRESENT

SAMPLE DATE APRIL 21, 2000

0 50' 100'

GRAPHIC SCALE

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

GROUND-WATER ANALYTICAL DATA - VOLATILE AROMATICS

SOURCE: Base map digitized from map 'MONITORING WELL LOCATION MAP' provided by PUBLIC WORKS CENTER, PENSACOLA, FLORIDA (dated June 1992)

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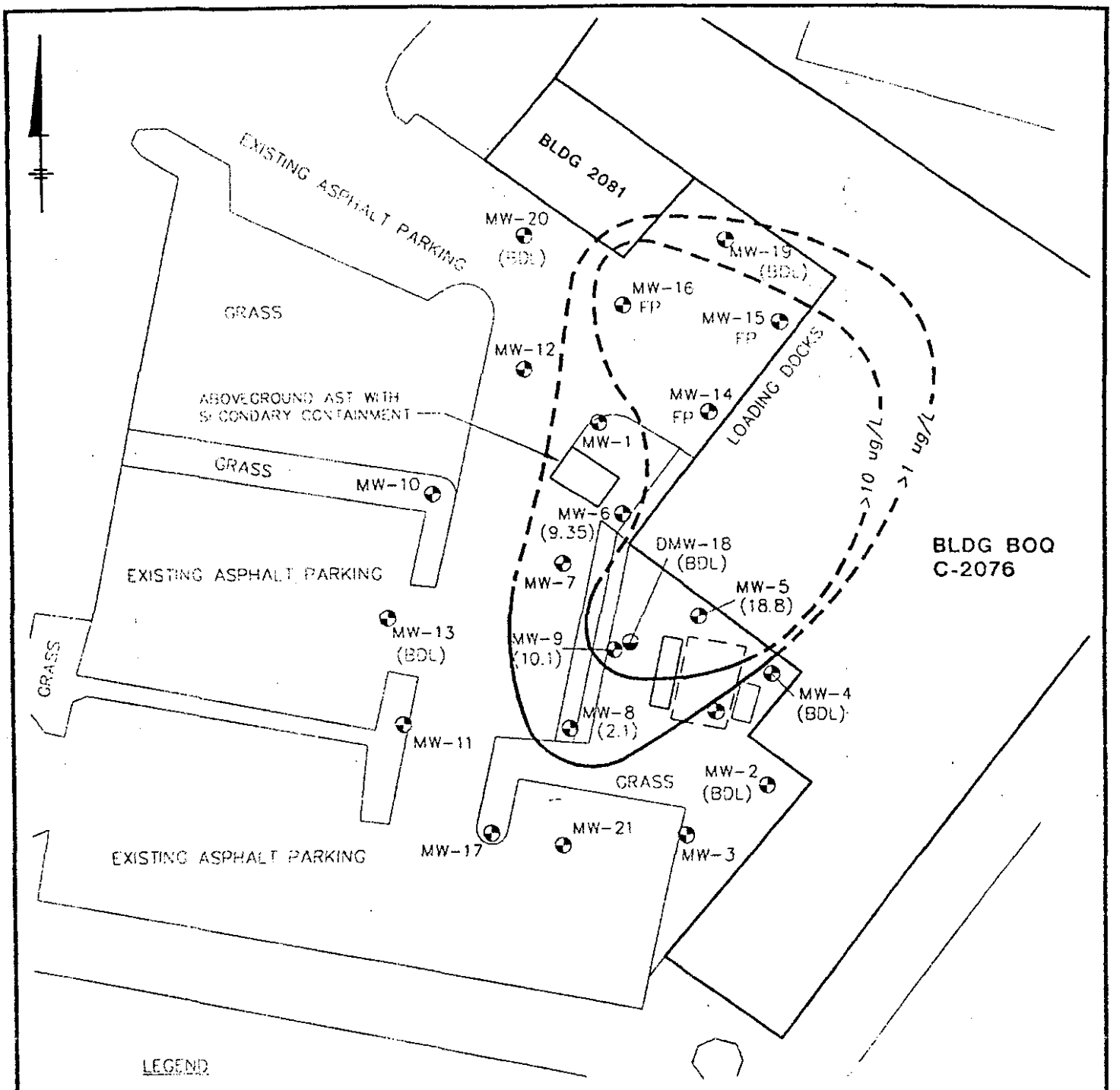
FIGURE 2-1



LEGEND

MW-17 ⊕ SHALLOW MONITORING WELL

DMW-18 ⊖ DEEP MONITORING WELL

(18.8) TOTAL VOAs (µg/L, 4/21/00)

TOTAL VOA ISOPLETH (DASHED WHERE INFERRED)

FP = FREE PRODUCT PRESENT

BDL = BELOW DETECTION LIMITS (VARIES PER PARAMETER)

(µg/L) = MICROGRAMS PER LITER

TOTAL VOAs = SUM OF BENZENE, TOLUENE, ETHYLBENZENE AND TOTAL XYLENES

0 40' 80'

GRAPHIC SCALE

SOURCE: Base map digitized from map 'MONITORING WELL LOCATION MAP' provided by PUBLIC WORKS CENTER, PENSACOLA, FLORIDA. Date June 1999

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

EXTENT OF TOTAL VOAs IN GROUND WATER

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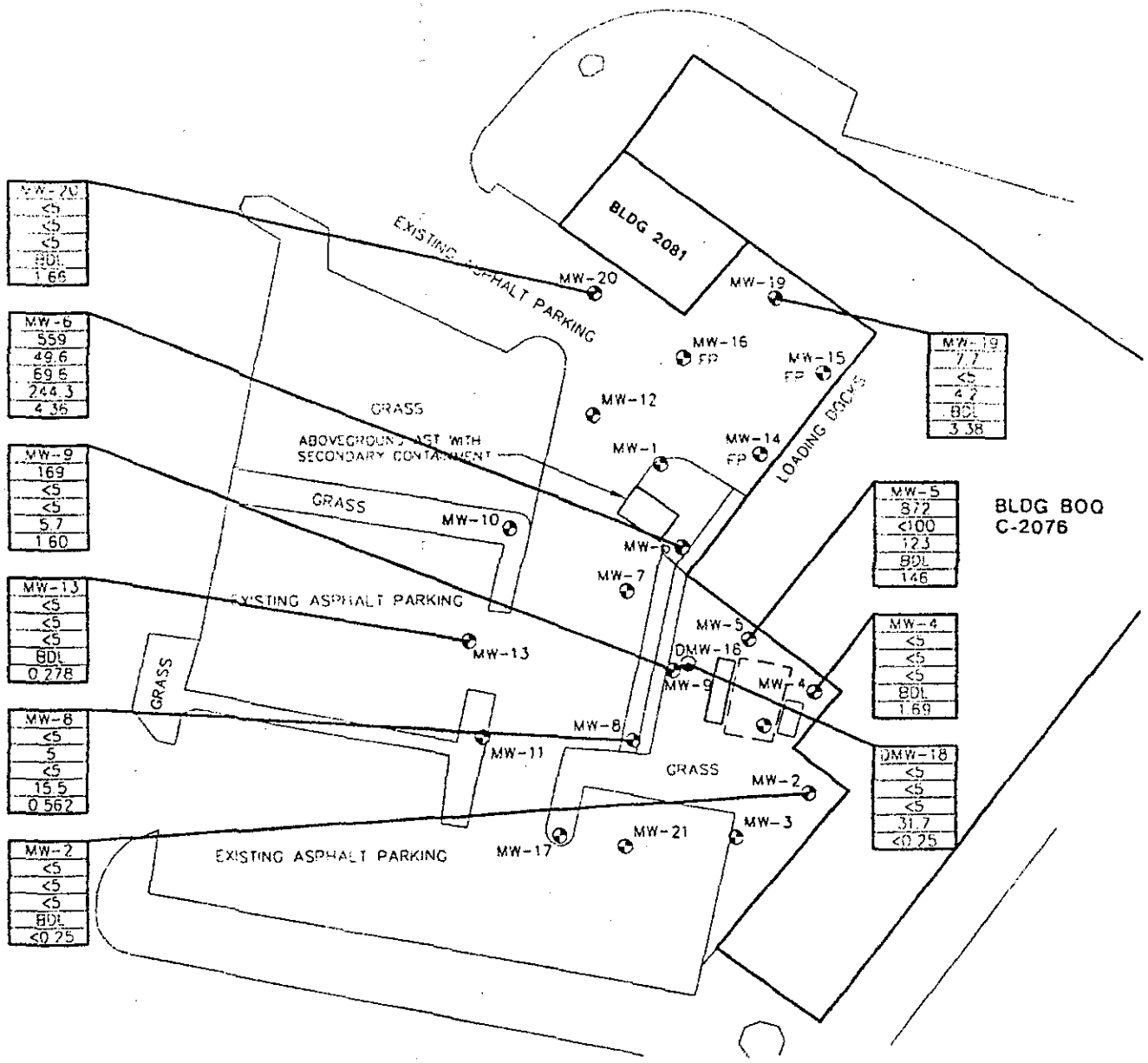
FIGURE 2-2



LEGEND

MW-17 ⊕ SHALLOW MONITORING WELL

DMW-18 ⊖ DEEP MONITORING WELL

MW-2	SAMPLE LOCATION
<5	NAPHTHALENE (µg/L)
<5	1-METHYLNAPHTHALENE (µg/L)
<5	2-METHYLNAPHTHALENE (µg/L)
BDL	TOTAL PAHs (µg/L)
<0.25	TRPH (mg/L)

SAMPLE DATE: APRIL 21, 2000

(µg/L) = MICROGRAMS PER LITER

(mg/L) = MILLIGRAMS PER LITER

BDL = BELOW DETECTION LIMITS (VARIES)

FP = FREE PRODUCT PRESENT

PAH = POLYNUCLEAR AROMATIC HYDROCARBONS EXCEPT NAPHTHALENE, 1- AND 2-METHYLNAPHTHALENE

TRPH = TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

0 50' 100'

GRAPHIC SCALE

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

GROUND-WATER ANALYTICAL DATA - PAHs AND TRPH

SOURCE: Base map digitized from map 'MONITORING WELL LOCATION MAP' provided by PUBLIC WORKS CENTER, PENSACOLA, FLORIDA. Date June 1999

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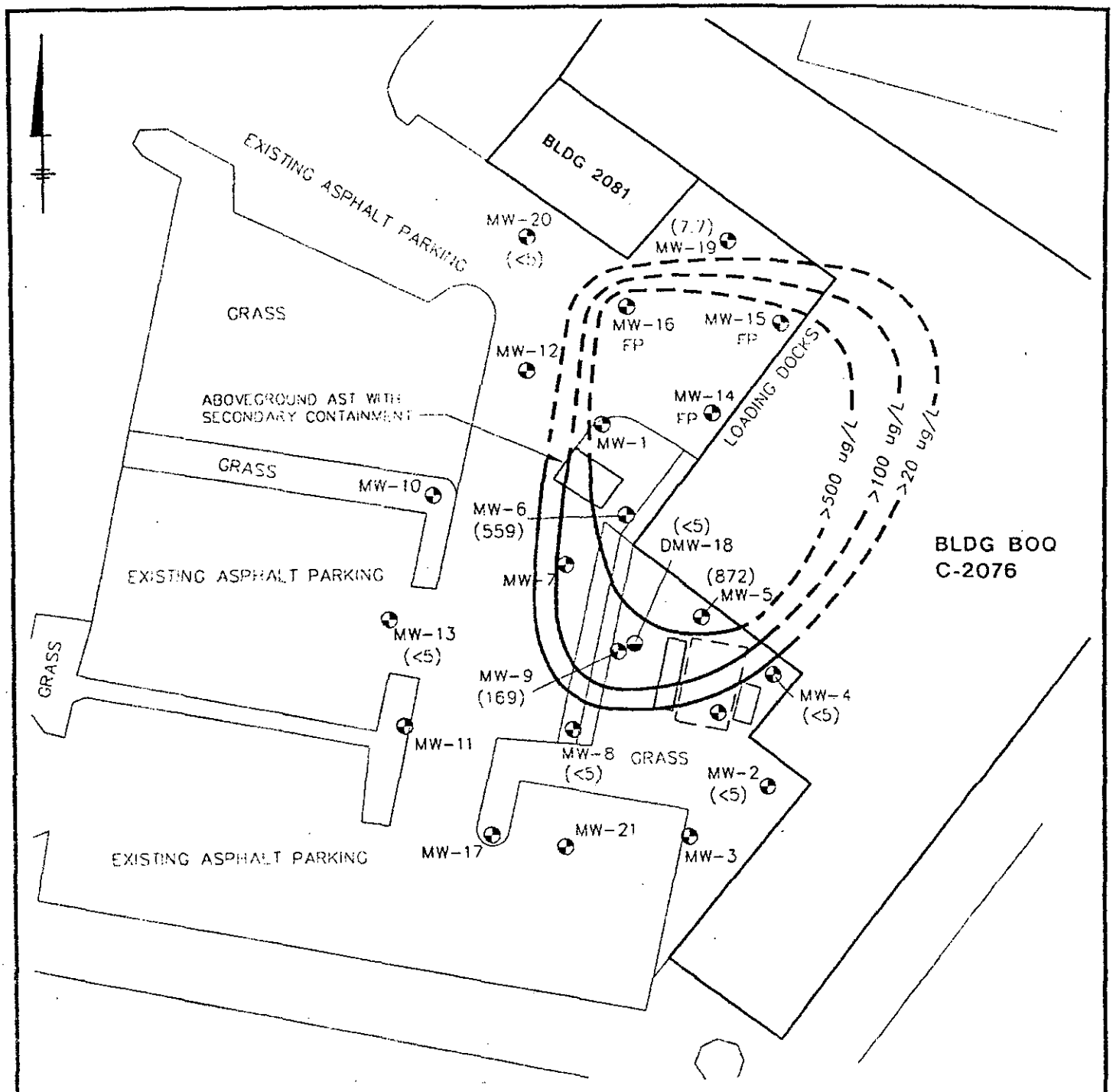
FIGURE 2-3



LEGEND

MW-17 SHALLOW MONITORING WELL

DMW-18 DEEP MONITORING WELL

(18.8) NAPHTHALENE (μg/L, 4/21/00)

20 NAPHTHALENE ISOPLETH (DASHED WHERE INFERRED)

FP = FREE PRODUCT PRESENT

(μg/L) = MICROGRAMS PER LITER

0 40' 80'

GRAPHIC SCALE

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

EXTENT OF NAPHTHALENE IN GROUND WATER

SOURCE: Base map digitized from map "MONITORING WELL LOCATION MAP" provided by PUBLIC WORKS CENTER, PENSACOLA, FLORIDA. Date June 1993. Scale 1" = 40'

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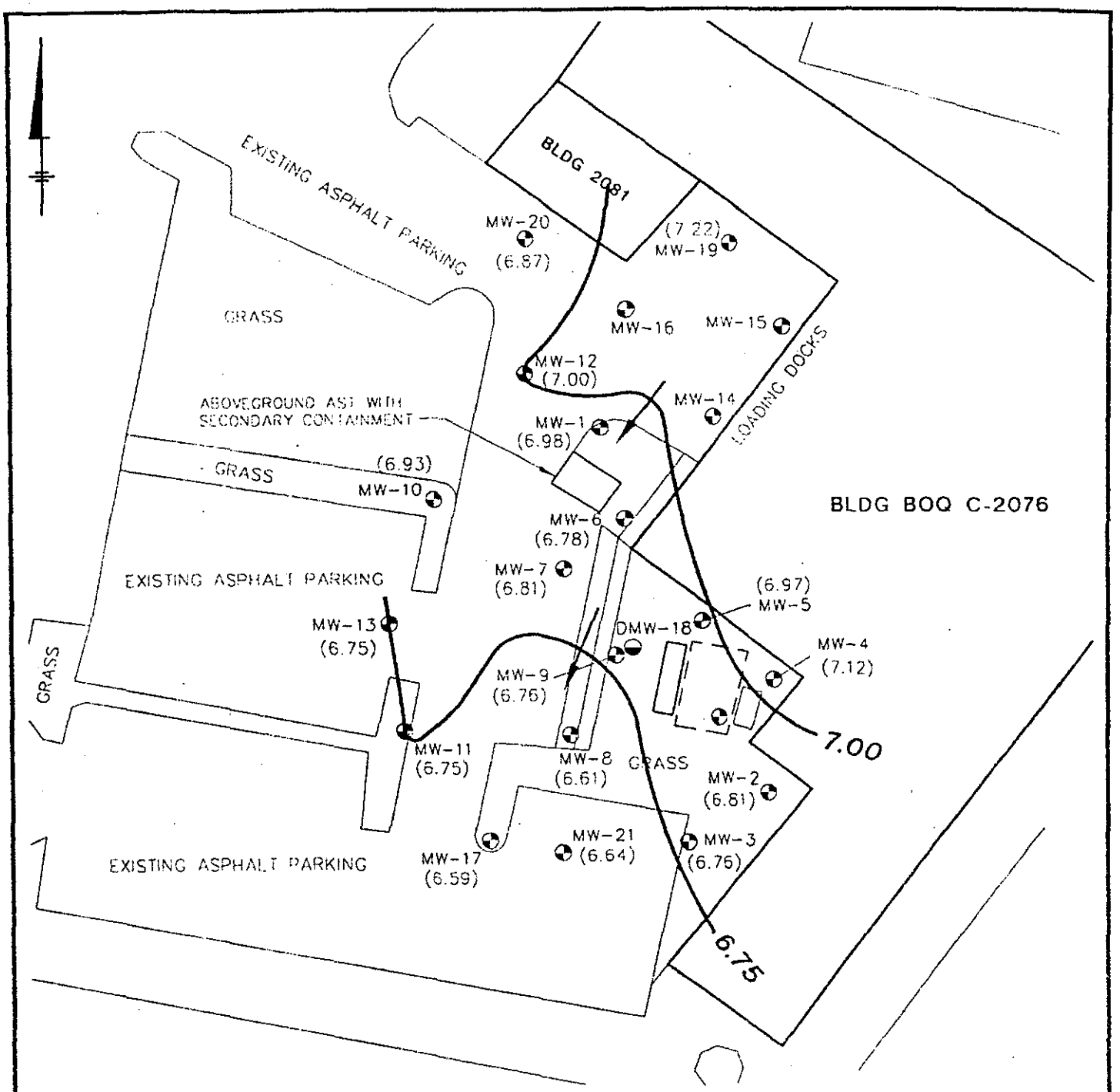
FIGURE 2-4



LEGEND

MW-17 ⊕ SHALLOW MONITORING WELL

DMW-18 ⊖ DEEP MONITORING WELL

(7.00) RELATIVE GROUND WATER ELEVATION

6.75 GROUND WATER ISOPLETH

ESTIMATED DIRECTION OF GROUND WATER FLOW

0 40' 80'

GRAPHIC SCALE

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

SITE C-2076 – TRUMBO POINT BOQ

HYDRAULIC GRADIENT

4/21/00 - 10:00 AM (HIGH TIDE)

SOURCE: Base map digitized from map "MONITORING WELL LOCATION MAP" provided by PUBLIC WORKS CENTER, PENSACOLA, FLORIDA. Date June 1989

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FIGURE 2-5

Tables

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Table 2-1

Field Ground-Water Measurements*

Site C-2076, Trumbo Point BOQ
NAS Key West, Florida

Well No.	pH	Temperature (°C)	Specific Conductance (mS/cm)	D.O. (mg/L)	ORP (mV)
MW-2	7.70	24.00	1,153	1.10	-71
MW-4	7.82	27.11	3,540	0.42	-187
MW-5	8.10	26.20	1,660	0.83	-64
MW-6	7.99	28.00	1,770	0.40	-170
MW-8	7.94	25.40	715	1.11	-47
MW-9	7.83	26.40	1,812	1.09	-151
MW-13	8.10	26.64	1,057	0.74	-157
DMW-18	8.34	27.00	2,000+	0.41	-209
MW-19	7.85	28.51	2,635	0.50	-184
MW-20	8.05	28.00	1,738	0.48	-170

Notes:
°C = degrees Centigrade
DO = Dissolved Oxygen
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
ORP = Oxygen Reduction Potential
*Final reading prior to sampling
73301130.WB2

Table 2-3

Top of Casing and Ground-Water Elevation

Site C-2076, Trumbo Point BOQ
NAS Key West, Florida

		April 12, 1999			April 21, 2000 10:00 am		
Well No.	TOC (ft MSL)	Depth to Water (ft)	Ground-Water Elevation (ft)	Free Product (ft)	Depth to Water (ft)	Ground-Water Elevation (ft)	Free Product (ft)
MW-1	10.20	3.15	7.02	0.00	3.22	6.98	0.00
MW-2	10.26	4.35	5.91	0.00	3.45	6.81	0.00
MW-3	9.87	3.11	6.76	0.00	3.11	6.76	0.00
MW-4	10.70	3.78	6.92	0.00	3.58	7.12	0.00
MW-5	10.36	3.22	7.14	0.00	3.39	6.97	0.00
MW-6	10.11	3.15	6.96	0.00	3.33	6.78	0.00
MW-7	9.93	2.84	7.09	0.00	3.12	6.81	0.00
MW-8	9.94	3.28	6.66	0.00	3.33	6.61	0.00
MW-9	10.29	3.28	7.01	0.00	3.53	6.76	0.00
MW-10	9.88	2.78	7.10	0.00	2.95	6.93	0.00
MW-11	9.97	2.94	7.09	0.00	3.22	6.75	0.00
MW-12	10.06	3.35	6.71	0.00	3.06	7.00	0.00
MW-13	10.00	3.27	6.73	0.00	3.25	6.75	0.00
MW-14	10.34	3.04	7.30	0.00	*	*	sheen
MW-15	10.12	*	*	0.13	*	*	2.00
MW-16	9.78	2.74	7.04	0.00	*	*	0.33
MW-17	10.01	3.11	6.90	0.00	3.42	6.59	0.00
DMW-18	10.69	NM	NM	0.00	3.57	7.12	0.00
MW-19	10.15	3.12	7.03	0.00	2.93	7.22	0.00
MW-20	10.20	4.04	6.16	0.00	3.33	6.87	0.00
MW-21	9.63	2.69	6.94	0.00	2.99	6.64	0.00

Notes:

ft = feet

NM = Not Measured

TOC = Top of Casing

Benchmark assumes elevation of 10 feet, Top of Casing MW-13

*Free Product encountered in MW-15 during sampling of 5/12/99, and MW-14 through MW-16 on April 21, 2000

Tides for Key West on 4/21/00: Low 5:31 am, 6:40 pm; High 12:31 am, 11:48 pm

73301130.WB2

Appendix A

ACCUTEST

05/01/00

Technical Report for

Blasland, Bouck & Lee

NAS Key West

880.1900 TRUMBO PT BOQ

Accutest Job Number: F6331

Report to:

BBL
15741 Vinola Ct.
Montverde, FL 34756

ATTN: Amanda Shearer

Total number of pages in report: 44

Harry Behzadi, Ph.D.
Laboratory Director

Results relate only to the items tested.
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ACCUTEST

Sample Summary

Blasland, Bouck & Lee

Job No: F6331

NAS Key West
Project No: 880.1900 TRUMBO PT BOQ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F6331-1	04/21/00	12:25 DR	04/22/00	AQ	Ground Water	MW-2
F6331-2	04/21/00	12:50 DR	04/22/00	AQ	Ground Water	MW-8
F6331-3	04/21/00	13:10 DR	04/22/00	AQ	Ground Water	MW-4
F6331-4	04/21/00	13:30 DR	04/22/00	AQ	Ground Water	MW-9
F6331-5	04/21/00	14:00 DR	04/22/00	AQ	Ground Water	DMW-18
F6331-6	04/21/00	14:20 DR	04/22/00	AQ	Ground Water	MW-5
F6331-7	04/21/00	14:45 DR	04/22/00	AQ	Ground Water	MW-13
F6331-8	04/21/00	15:10 DR	04/22/00	AQ	Ground Water	MW-6
F6331-9	04/21/00	15:30 DR	04/22/00	AQ	Ground Water	MW-20
F6331-10	04/21/00	15:55 DR	04/22/00	AQ	Ground Water	MW-19
F6331-11	04/21/00	00:00 DR	04/22/00	AQ	Trip Blank Water	TRIP BLANK

ACCUTEST

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F6331-1	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ11012.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	73%		40-125%
84-15-1	o-Terphenyl	88%		45-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F6331-1	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD014741.D	1	04/24/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		69-125%
98-08-8	aaa-Trifluorotoluene	97%		72-125%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F6331-1	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07942.D	1	04/26/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F6331-1	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	509	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	F6331-2	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD014742.D	1	04/24/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.1	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		69-125%
98-08-8	aaa-Trifluorotoluene	96%		72-125%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	F6331-2	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ11015.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	12.2	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	3.3	5.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	5.0	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	78%		40-125%
84-15-1	o-Terphenyl	88%		45-130%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	F6331-2	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07943.D	1	04/26/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.562	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	F6331-2	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	5710	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F6331-3	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD014778.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		69-125%
98-08-8	aaa-Trifluorotoluene	98%		72-125%

(a) Reported results are from Signal 1.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F6331-3	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	EPA 8100	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ11016.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%		40-125%
84-15-1	o-Terphenyl	79%		45-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F6331-3	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07944.D	2	04/26/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.69	0.52	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F6331-3	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	1220	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F6331-4	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD014779.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	7.1	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	3.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		69-125%
98-08-8	aaa-Trifluorotoluene	80%		72-125%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F6331-4	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ11019.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2 [a]	IJ11028.D	4	04/28/00	ME	04/26/00	OP1487	GIJ506

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	5.7	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	169 [b]	20	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	76%	72%	40-125%
84-15-1	o-Terphenyl	92%	81%	45-130%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F6331-4	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07945.D	2	04/26/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.60	0.52	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F6331-4	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep.	Analyzed By		Method
Iron	5180	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	DMW-18		
Lab Sample ID:	F6331-5	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD014747.D	1	04/24/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		69-125%
98-08-8	aaa-Trifluorotoluene	98%		72-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	DMW-18		
Lab Sample ID:	F6331-5	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ11020.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	17.4	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	4.3	5.0	ug/l	J
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	81%		40-125%
84-15-1	o-Terphenyl	78%		45-130%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	DMW-18		
Lab Sample ID:	F6331-5	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07946.D	1	04/26/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.628	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	DMW-18		
Lab Sample ID:	F6331-5	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	781	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	F6331-6	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD014780.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2	CD014748.D	10	04/25/00	JG	n/a	n/a	GCD532

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3.1	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	7.3	1.0	ug/l	
1330-20-7	Xylenes (total)	8.4	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	131% [a]	86%	69-125%
98-08-8	aaa-Trifluorotoluene	85%	85%	72-125%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	F6331-6	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07960.D	200	04/27/00	ME	04/24/00	OP1478	GOP363
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	146	51	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	F6331-6	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	1890	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F6331-7	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD014749.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		69-125%
98-08-8	aaa-Trifluorotoluene	81%		72-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F6331-7	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ11022.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	64%		40-125%
84-15-1	o-Terphenyl	84%		45-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F6331-7	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07961.D	1	04/27/00	ME	04/24/00	OP1478	GOP363
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.278	0.28	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F6331-7	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	604	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	F6331-8	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD014781.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.95	1.0	ug/l	J
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	4.5	1.0	ug/l	
1330-20-7	Xylenes (total)	3.9	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		69-125%
98-08-8	aaa-Trifluorotoluene	78%		72-125%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	F6331-8	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	EPA 8100	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U11023.D	1	04/28/00	ME	04/26/00	OP1487	GU505
Run #2 [a]	U11030.D	2	04/28/00	ME	04/26/00	OP1487	GU506
Run #3 [a]	U11031.D	20	04/28/00	ME	04/26/00	OP1487	GU506

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	62.8 [b]	10	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	6.5	5.0	ug/l	
56-55-3	Benzo(a)anthracene	5.9	5.0	ug/l	
50-32-8	Benzo(a)pyrene	3.4	5.0	ug/l	J
205-99-2	Benzo(b)fluoranthene	3.2	5.0	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	5.3	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	25.4	5.0	ug/l	
86-73-7	Fluorene	50.2 [b]	10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	559 [c]	100	ug/l	
90-12-0	1-Methylnaphthalene	49.6	5.0	ug/l	
91-57-6	2-Methylnaphthalene	69.6	5.0	ug/l	
85-01-8	Phenanthrene	65.8 [b]	10	ug/l	
129-00-0	Pyrene	15.8	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
321-60-8	2-Fluorobiphenyl	95%	88%	0% [d]	40-125%
84-15-1	o-Terphenyl	78%	76%	0% [d]	43-130%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2
(c) Result is from Run# 3
(d) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = *Indicates value exceeds calibration range*
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	F6331-8	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ11023.D	1	04/28/00	ME	04/26/00	OP1487	GIJ505
Run #2 [a]	IJ11030.D	2	04/28/00	ME	04/26/00	OP1487	GIJ506
Run #3 [a]	IJ11031.D	20	04/28/00	ME	04/26/00	OP1487	GIJ506

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	62.8 [b]	10	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	6.5	5.0	ug/l	
56-55-3	Benzo(a)anthracene	5.9	5.0	ug/l	
50-32-8	Benzo(a)pyrene	3.4	5.0	ug/l	J
205-99-2	Benzo(b)fluoranthene	3.2	5.0	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	5.3	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	25.4	5.0	ug/l	
86-73-7	Fluorene	50.2 [b]	10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	559 [c]	100	ug/l	
90-12-0	1-Methylnaphthalene	49.6	5.0	ug/l	
85-01-8	Phenanthrene	65.8 [b]	10	ug/l	
129-00-0	Pyrene	15.8	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
321-60-8	2-Fluorobiphenyl	96%	88%	0% [d]	40-125%
84-15-1	o-Terphenyl	78%	76%	0% [d]	45-130%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2
(c) Result is from Run# 3
(d) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	F6331-8	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07950.D	4	04/27/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	4.36	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	F6331-8	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	3280	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	F6331-9	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD014751.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		69-125%
98-08-8	aaa-Trifluorotoluene	85%		72-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	F6331-9	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 8100	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ11024.D	1	04/28/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		40-125%
84-15-1	o-Terphenyl	91%		45-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	F6331-9	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	FLORIDA-PRO	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07951.D	2	04/27/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.66	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	F6331-9	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method
Iron	1180	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	F6331-10	Date Sampled:	04/21/00
Matrix:	AQ - Ground Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD014752.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.89	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		69-125%
98-08-8	aaa-Trifluorotoluene	87%		72-125%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	F6331-10	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	EPA 8100	**Percent Solids:**	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ11018.D	1	04/27/00	ME	04/26/00	OP1487	GIJ505
Run #2							

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-20-3	Naphthalene	7.7	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	4.2	5.0	ug/l	J
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	89%		40-125%
84-15-1	o-Terphenyl	95%		45-130%

(a) All hits confirmed by dual column analysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	F6331-10	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
Method:	FLORIDA-PRO	***Percent Solids:***	*n/a*
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP07952.D	4	04/27/00	ME	04/24/00	OP1478	GOP362
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	3.38	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	F6331-10	**Date Sampled:**	04/21/00
Matrix:	AQ - Ground Water	**Date Received:**	04/22/00
		Percent Solids:	n/a
Project:	NAS Key West		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Iron	2520	300	ug/l	1	04/24/00	04/25/00	JK	SW846 6010A

RL = Reporting Limit

ACCUTEST

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F6331-11	Date Sampled:	04/21/00
Matrix:	AQ - Trip Blank Water	Date Received:	04/22/00
Method:	EPA 601/602	Percent Solids:	n/a
Project:	NAS Key West		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD014784.D	1	04/25/00	JG	n/a	n/a	GCD532
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		69-125%
98-08-8	aaa-Trifluorotoluene	90%		72-125%

= Not detected
Reporting Limit
Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F6331

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: BBL
ADDRESS: 15741 Vihola Ct
CITY, STATE, ZIP: Montverde FL 34756
SEND REPORT TO: A. Sherman
PHONE #: 407 469 3165

FACILITY INFORMATION

PROJECT NAME: Trumbo Pt. BOR
LOCATION: NAS, Key West
PROJECT NO.: BBO 1900
FAX #: 407 469 3392

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	15TEX / MTBE	FL PRO	Total Fe	8100	LAB USE ONLY
1	MW-2	4/21/00	1225		GW	7	X	X	X	X	X	X	X	X	X	
2	MW-8		1250													
3	MW-4		1310													
4	MW-9		1330													
5	DMW-18		1400													
6	MW-5		1420													
7	MW-13		1445													
8	MW-6		1510													
9	MW-20		1530													
10	MW-19		1555													
11	Trip Blank	—	—		—	2	X									

DATA TURNAROUND INFORMATION

(X) STANDARD
( ) 48 HOUR RUSH
( ) 24 HOUR EMERGENCY
( ) OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

(X) STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.		1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME: 4/21/00	RECEIVED BY: 3. Mike Jarrell 4/22/00	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5. 0900	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE

FLORIDA

Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date:

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-2	SAMPLE ID:	DATE: 4/21/00
SITE NAME: Trumbo		SITE LOCATION: C2076	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 11.79	DEPTH TO WATER (ft): 3.45	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (11.79 - 3.45) x 0.16 = 1.3

PURGE METHOD: Peristaltic pump	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1220
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	~~DO~~ OTHER ORP
1	1.5	8.01	24.66	1153	None	yes	clear	1.89 -77mv
2	3	8.01	24.81	1153	"	"	"	1.09 -70
3	4.5	7.70	24.	1153	"	"	"	1.10 -71

SAMPLING DATA

SAMPLED BY / AFFILIATION: DWV / DPA (BBL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Teflon bailer, rope	SAMPLING INITIATED AT: 1225	SAMPLING ENDED AT: —

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX / MTBE
	AG	950	H_2SO_4			FL PRO
	HDP	500	HNO_3			Fe
	AG	950	—			8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date:

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-8	SAMPLE ID: MW-8	DATE: 4/21/00
SITE NAME: Trumbo	SITE LOCATION: C2074		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 11.54	DEPTH TO WATER (ft): 3.33	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (11.54 - 3.33) x 0.16 = 1.3

PURGE METHOD: Peristaltic, fully	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1242
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	DO	OTHER ORP
1	1.5	8.07	25.4	710	none	organic	clear	1.57	-58
2	3	8.00	25.3	730	"	"	"	1.00	-40
3	4.5	7.94	25.4	715	"	"	"	1.11	-47

SAMPLING DATA

SAMPLED BY/ AFFILIATION: DWU/DPP (BSL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Teflon bailer, nylon rope	SAMPLING INITIATED AT: 1250	SAMPLING ENDED AT: —

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX / MTBE
	AG	950	—			8100
	HDP	500	HNO_3			Total Fe
	AG	950	H_2SO_4			FL PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: _____

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-4	SAMPLE ID: MW-4	DATE: 4/21/00
SITE NAME: Trumbo		SITE LOCATION: C2076	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 11.30	DEPTH TO WATER (ft): 3.56	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (11.30 - 3.56) x 0.16 = 1.2

PURGE METHOD: Peristaltic, tubing	PURGING INITIATED AT: 1255	PURGING ENDED AT: 1307
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	DO	OTHER
1	1.2	7.87	27.01	3399	none	organic	clear	0.65	-180
2	2.4	7.80	27.00	3500	"	"	"	0.66	-194
3	4	7.82	27.11	3540	"	"	"	0.42	-187

SAMPLING DATA

SAMPLED BY/ AFFILIATION: DWV/DAP (BSL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Teflon bailer, nylon rope	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: —

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX / MTBE
	AG	950	H_2SO_4			PL-PRO
	HDP	500	HNO_3			Fe
	AG	950	-			8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date:

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-9	SAMPLE ID: MW-9	DATE: 4/21/00
SITE NAME: Trembo	SITE LOCATION: C 2076		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 11.75	DEPTH TO WATER (ft): 3.53	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY –
= (11.75 - 3.53) x 0.16 = 1.3

PURGE METHOD: Peristaltic, bailer	PURGING INITIATED AT: 1312	PURGING ENDED AT: 1325
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (umhos)	COLOR	ODOR	APPEARANCE	DO	OTHER ORP
1	1.3	7.86	26.38	1795	None	yes	clear	3.21	-140
2	2.5	7.84	26.41	1804	"	"	"	2.11	-150
3	4	7.83	26.40	1812	"	"	"	1.09	-151

SAMPLING DATA

SAMPLED BY/ AFFILIATION: DWV/DPP (BSL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Dedicated Teflon bailer, nylon rope	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: —

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX / MTBE
	AG	950	H_2SO_4			FL-PRO
	HDP	500	HNO_3			Fe
	AG	950	—			Pb

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)
WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Focus Title: Petroleum or Petroleum Products
Water Sampling Log
Effective Date: _____

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-18	SAMPLE ID: DMW-18	DATE: 4/21/00
SITE NAME: Trumbo		SITE LOCATION: C 207	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 29.79	DEPTH TO WATER (ft): 3.57	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (29.79 - 3.57) x 0.16 = 4.2

PURGE METHOD: Peristaltic, tubing	PURGING INITIATED AT: 1335	PURGING ENDED AT: 1400 ~~1330~~ DPP
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	DO	OTHER ORP
1	4	8.41	27.12	2000+	None	Organic	Clear	0.44	-206
2	8	8.31	27.11	2000+	–	"	"	0.37	-210
3	12	8.34	27.00	2000+	–	"	"	0.41	-209

SAMPLING DATA

SAMPLED BY/ AFFILIATION: DWV / DPP (BBL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Dedicated Teflon bailer nylon rope	SAMPLING INITIATED AT: 1330 ~~1400~~ DPP	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX / MTBE
	AG	950	H_2SO_4			FL-PRO
	HDP	500	HNO_3			T. Fe
	AG	950	—			8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date:

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-5	SAMPLE ID: MW-5	DATE: 4/21/00
SITE NAME: Trumbo	SITE LOCATION: C2076		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 11.75	DEPTH TO WATER (ft): 3.39	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =
= (11.75 - 3.39) x 0.16 = 1.3

PURGE METHOD: Peristaltic tubing	PURGING INITIATED AT: 1403	PURGING ENDED AT: 1417
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (umhos)	COLOR	ODOR	APPEARANCE	DO	OTHER DR
1	1.3	8.03	26.17	1634	None	yes	clear	0.97	-15
2	2.6	8.11	26.20	1640	"	"	"	1.10	-16
3	4	8.10	26.20	1680	"	"	"	0.83	-16

SAMPLING DATA

SAMPLED BY/ AFFILIATION: DWV/DPP (BSL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Dedicated Teflon bailer nylon rope	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: —

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX/MTBE
	AG	950	H_2SO_4			FL-PRO
	HDP	500	HNO_3			T. Fe
	AG	950	—			8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)
WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-13	SAMPLE ID: MW-13	DATE: 4/21/00
SITE NAME: Tremco	SITE LOCATION: C2076		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12	DEPTH TO WATER (ft): 3.05	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (12 - 3.05) x 0.16 = 1.4

PURGE METHOD: Peristaltic, tubing	PURGING INITIATED AT: 1423	PURGING ENDED AT: 1438
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	DO	OTHER ORP
1	1.4	8.28	29.05	1075	None	yes	clear	0.74	-146
2	3	8.11	29.00	1050	"	"	"	0.66	-153
3	5	8.10	28.94	1057	"	"	"	0.74	-157

SAMPLING DATA

SAMPLED BY / AFFILIATION: DWV/DPP (BBL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Dedicated Teflon Bailer, nylon rope	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: —

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX / MTBE
	AG	950	H_2SO_4			FL PRO
	HDP	500	HNO_3			Total Fe
	AG	950	—			8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Water Sampling Log
Effective Date

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-6	SAMPLE ID: MW-6	DATE: 4/12/00
SITE NAME: TURBO		SITE LOCATION: C2076	

PURGE DATA

WELL DIAMETER (in): 2"	TOTAL WELL DEPTH (ft): 11.89	DEPTH TO WATER (ft): 3.33	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (11.89 – 3.33) x 0.16 = 1.4

PURGE METHOD: Peristaltic Pump / Tubing	PURGING INITIATED AT: 0.5	PURGING ENDED AT: 1510
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal): 5 gal

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	DO	OTHER ORP
1	1.4	8.02	27.66	1777	None	Yes	clear	0.44	-74
2	3	8.02	27.59	1770	"	"	"	0.40	-73
3	4.5	7.99	28.00	1770	"	"	"	0.40	-170

SAMPLING DATA

SAMPLED BY (AFFILIATION): DWV / DPP / BRL	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Dedicated Teflon Bailers, nylon Rope	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y (N) FIELD-FILTERED: Y (N) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40				BTEX / MTBE
	AG	950				TL / DPO
	HDP	500				Total Fe
	AG	950				8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

Water Sampling Log
Effective Date:

Petroleum or Petroleum Products
Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-20	SAMPLE ID: MW-20	DATE: 4/24/00
SITE NAME: TURBO		SITE LOCATION: C207C	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 11.82	DEPTH TO WATER (ft): 3.33	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (11.82 – 3.33) x 0.16 = 1.4

PURGE METHOD: Peristaltic Pump Tubing	PURGING INITIATED AT: 1500	PURGING ENDED AT: 1520
	PURGE RATE (gpm): 0.5	TOTAL VOLUME PURGED (gal): 4.5/5

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	DO	OTHER ORP
1	1.4	8.05	28.01	1734	None	yes	clear	0.41	-171
2	3	8.05	28.05	1740	"	"	"	0.40	-170
3	5	8.05	28.00	1738	"	"	"	0.38	170
					"	"	"		

SAMPLING DATA

SAMPLED BY / AFFILIATION: DWW/DPP (BBL)	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Dedicated Teflon Bailer/Nylon Rope	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	
	CG	40	HCL			BTEX/MTBE
	AG	950	H_2SO_4			TPH PAO
	HDP	500	HNO_3			TOTAL Fe
	AG	950	—			8100

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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