

ANNUAL MANAGEMENT REPORT

**MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM**

**YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)**

FEBRUARY 26, 2007

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15.0 SITE TT-3233

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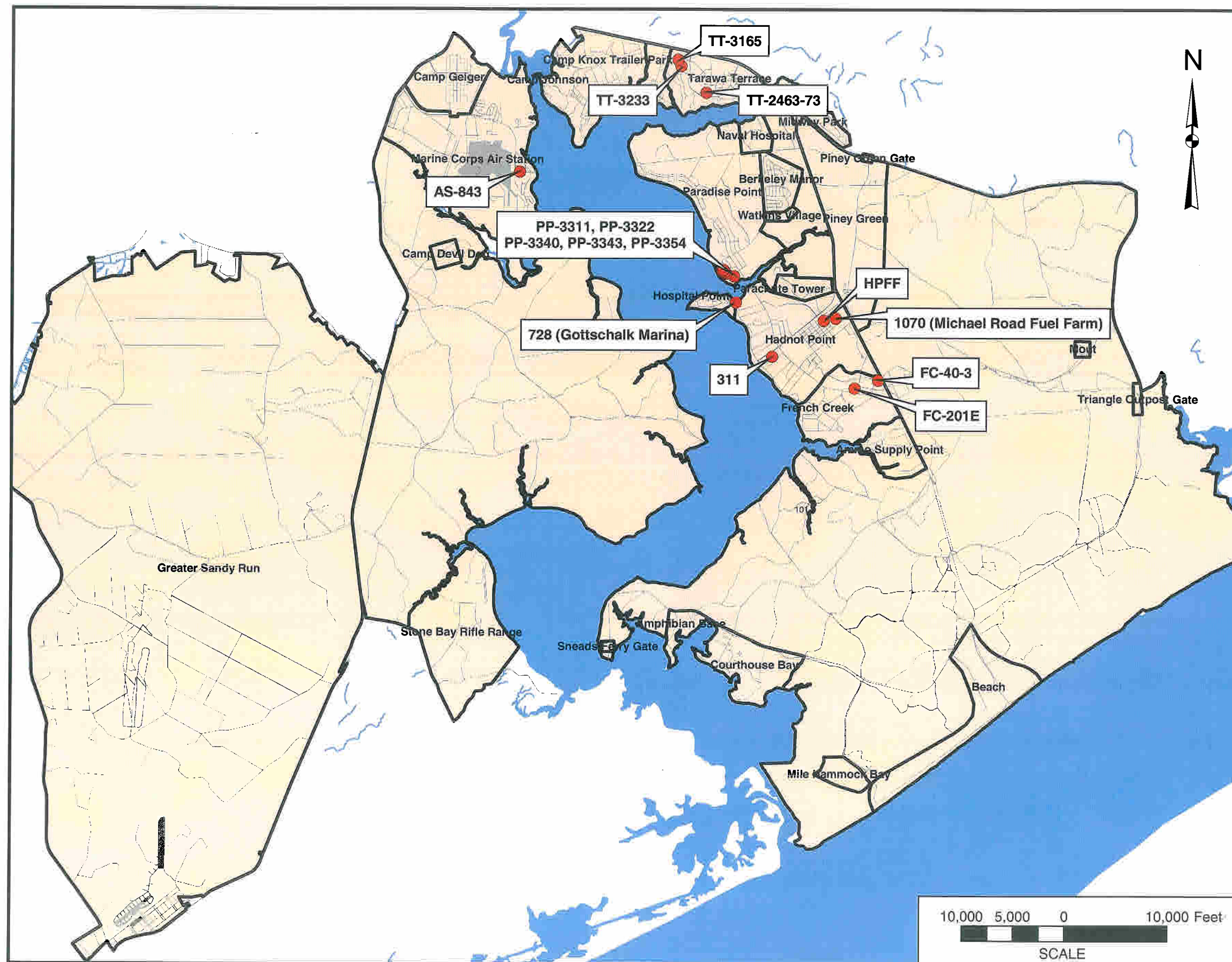
INTRODUCTION

The purpose of this *Annual Management Report* is to present the results of recent monitoring events performed at underground storage tank (UST) sites located at Marine Corps Air Station New River (MCAS New River) and Marine Corps Base Camp Lejeune (MCB Camp Lejeune). Monitoring and reporting is being performed in accordance with the *MCB Camp Lejeune UST Management Program*. A listing of sites for which sampling results are included in this *Annual Management Report* is presented in Table I and locations of these sites are shown on Figure I.

This *Annual Management Report* is designed such that all data and information pertaining to any individual site is contained entirely within one section of the report and each section is devoted entirely to one site. Therefore, each section serves as a stand-alone monitoring report for the respective site. Each section begins with an *Executive Summary* which provides information about location, monitoring, groundwater hydraulics, free product plumes, dissolved-phase plumes, potential receptors, and remediation at the site. Each *Executive Summary* is supported by several site-specific tables and figures.

TABLE I**INDEX OF SITES FOR THIS REPORT**

SITE NAME	NCDENR INCIDENT NO.	SITE LOCATION	REPORT SECTION NO.
AS-843	21272	MCAS New River	1.0
311	21409	MCB Camp Lejeune	2.0
728 (Gottschalk Marina)	20443	MCB Camp Lejeune	3.0
1070 (Michael Road Fuel Farm)	32214	MCB Camp Lejeune	4.0
FC-40-3	24222	MCB Camp Lejeune	5.0
FC-201 East	23741	MCB Camp Lejeune	6.0
HPFF	3671, 10615, 22788	MCB Camp Lejeune	7.0
PP-3311	24007	MCB Camp Lejeune	8.0
PP-3322	24008	MCB Camp Lejeune	9.0
PP-3340	24012	MCB Camp Lejeune	10.0
PP-3343	24013	MCB Camp Lejeune	11.0
PP-3354	24015	MCB Camp Lejeune	12.0
TT-2463-73	21139	MCB Camp Lejeune	13.0
TT-3165	23971	MCB Camp Lejeune	14.0
TT-3233	23970	MCB Camp Lejeune	15.0



MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM



LEGEND

- UST Sites
- Base Areas
- Airfield Pavement
- Roads
- Surface Water

NOTES

1. Data layers provided by MCB Camp Lejeune GIS Department.

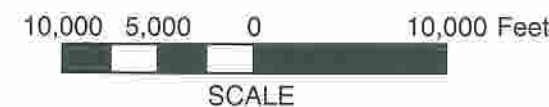


MCAS NEW RIVER/MCB CAMP LEJEUNE
SITE LOCATIONS MAP
CAMP LEJEUNE, NORTH CAROLINA

FIGURE

1

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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SECTION 1.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

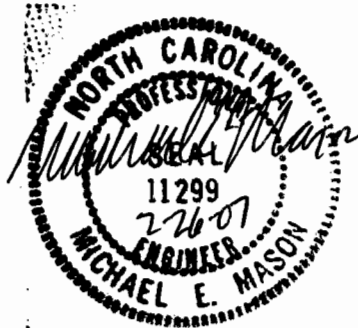
MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE AS-843

NCDENR INCIDENT NO. 21272



1.0 EXECUTIVE SUMMARY

SITE AS-843

1.1 Site Information

- 1.1.1 Site Location:** MCAS New River
- 1.1.2 Incident Number(s):** 21272
- 1.1.3 UTM Coordinates (WGS84) (Meters):** 277157.54 Easting, 3843587.14 Northing
- 1.1.4 Risk Classification:** Low
- 1.1.5 Land Use Classification:** Industrial/Commercial
- 1.1.6 Source Type(s):** 1,000 gallon and 550 gallon Diesel USTs

1.2 Monitoring Event Information

- 1.2.1 Sampling Performed By:** Sovereign Consulting, Inc. (Sovereign)
- 1.2.2 Date(s) of This Monitoring Event:** 7/5/06 and 7/6/06
- 1.2.3 Date(s) of Previous Monitoring Event:** 8/31/05
- 1.2.4 Reason(s) for This Monitoring Event:** Track migration and attenuation of dissolved-phase plume.
- 1.2.5 Site Monitoring Status at Time of This Event:** Quarterly gauging and annual sampling of five on-site monitoring wells.

1.3 Groundwater Hydraulics

- 1.3.1 Hydraulic Conductivity:** Unknown
- 1.3.2 Effective Porosity:** Unknown
- 1.3.3 Hydraulic Gradient:** 0.062 feet/feet (Calculated by Engineering and Environment, Inc. [EEI] in August 2005)
- 1.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 1.3.5 Groundwater Flow Direction:** East-Northeast
- 1.3.6 Range of Measured Water Table Elevations:** 9.03 ft above Mean Sea Level (MSL) in USTAS843-MW01 to 11.63 ft above MSL in USTAS843-MW04 (see Table 1.1)
- 1.3.7 Significant Changes from Previously Reported Data:** Not Applicable. The data collected during this monitoring period is the first under the Camp Lejeune UST Management Program developed by CATLIN Engineers and Scientists (CATLIN).

Free Product Plume

- 1.3.8 Free Product Present?:** No.
- 1.3.9 Free Product Thickness Measured:** See Table 1.1.
- 1.3.10 Plume Size and Location:** See Figure 1.1.
- 1.3.11 Free Product Removed from Site This Period:** None.
- 1.3.12 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

1.4 Dissolved-Phase Plume

1.4.1 Plume Concentrations: See Tables 1.2 through 1.6B

1.4.2 Plume Size and Location: See Figures 1.2 and 1.4

1.4.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. Groundwater sample analytical results compared to the 2L GWQS are discussed as follows:

EPA Method 601 and 602

In August 2005, five monitoring wells were sampled per EPA Method 601 and 602. The analytical results revealed Benzene above the 2L GWQS in USTAS843-MW03. All other EPA Method 601 and 602 compounds were either not detected or detected at concentrations below the 2L GWQS. During the current monitoring event (July 2006) EPA Method 601 and 602 analysis was not conducted, rather EPA Method 6210D analysis was performed.

EPA Method 6210D

The analytical results from the current monitoring event revealed Benzene at a concentration of 1.17 ug/L in USTAS843-MW03, which is above the 2L GWQS of 1 ug/L for this compound. Also, in sample USTAS843-MW03 Naphthalene was detected at a concentration of 23 ug/L which is above the 2L GWQS of 21 ug/L for this compound. 4-Isopropyltoluene was detected at concentrations of 0.44 ug/L, 0.39 ug/L and 0.40 ug/L in samples USTAS843-MW02, USTAS843-MW03 and USTAS843-MW04, respectively. There is no established 2L GWQS for 4-Isopropyltoluene, therefore any detection of this compound was considered an exceedance of the standard. All other EPA Method 6210D compounds were either report as below quantitation limits (BQL) or detected at concentrations below the 2L GWQS.

EPA Method 625

No EPA Method 625 compounds were detected at concentrations above the 2L GWQS during the current monitoring event. During the August 2005 monitoring event, Naphthalene was detected in monitoring well USTAS843-MW05 at a concentration of 23.80 ug/L, which is above the 2L GWQS for this compound of 21 ug/L.

MADEP VPH/EPH

During the current monitoring event the C₉-C₂₂ Aromatics Hydrocarbon Fraction was detected in samples USTAS843-MW03 and USTAS843-MW04 at concentrations of 320 ug/L and 330 ug/L, respectively. Each of these concentrations exceed the 2L GWQS of 210 ug/L for this compound. During the August 2005 monitoring event this compound was detected in USTAS843-MW04 at a concentration of 300 ug/L. All other MADEP VPH/EPH compounds were either report as BQL or detected at concentrations below the 2L GWQS.

1.5 Potential Receptors

- 1.5.1 Contaminated Water Supply Well(s)?:** None
- 1.5.2 Potable Water Supply Well Within 1,000 Feet of Source Area?:** No
- 1.5.3 Any Water Supply Well Within 250 Feet of Source Area?:** No
- 1.5.4 Surface Water Body Within 500 Feet?:** No
- 1.5.5 Past Evidence of Vapors?:** No
- 1.5.6 Significant Changes from Previously Reported Data?:** Not Applicable. This is the first Management Report prepared by CATLIN.

1.6 Remediation

- 1.6.1 Status:** On-going (Natural Attenuation)
- 1.6.2 Type:** Excavation, Free Product Recovery (via Hand Bailing) and Natural Attenuation
- 1.6.3 Progress:** Excavation and Free Product Recovery complete, Natural Attenuation on-going.
- 1.6.4 Construction Contractor:** Excavation completed by Environmental and Regulatory Consultants, Free Product Recovery completed by EEI.
- 1.6.5 Operating Contractor:** Sovereign

1.7 Observations and Comments

As stated in the Annual Monitoring Report completed by Sovereign in June 2006, CATLIN agrees with the recommendation to gauge the five on-site monitoring wells on a semi-annual basis and conduct groundwater sampling on a biennial basis. As the site was sampled in July 2006, the next sampling event should be conducted in July 2008. Gauging events should be conducted in January 2007, July 2007 and January 2008.

To CATLIN's knowledge the source of contamination at the subject site was diesel fuel. According to the "Guidelines for Assessment and Corrective Action" effective July 1, 2001, diesel contaminated sites require groundwater sampling per EPA Method 602, EPA Method 625 + TICs, and MADEP VPH/EPH. Therefore, CATLIN recommends that the analytical methods be modified for the July 2008 monitoring event to reflect the guidelines.

TABLE 1.1
SITE AS-843
FIELD MEASUREMENTS - THIRD QUARTER 2006

Date Measured: 7/5/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
USTAS843-MW01	T-II	13.28	-0.19	4.25	0.00	4.44	9.03
USTAS843-MW02	T-II	13.67	-0.31	4.10	0.00	4.41	9.57
USTAS843-MW03	T-II	13.78	-0.25	4.01	0.00	4.26	9.77
USTAS843-MW04	T-II	13.61	-0.14	1.98	0.00	2.12	11.63
USTAS843-MW05	T-III			5.11	0.00		

- Notes:
1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
 2. TOC = Top of well casing elevation.
 3. STICK UP = Height of well casing above land surface in feet.
 4. DTW = Depth to water (in feet) from top of well casing.
 5. Product thickness is measured in feet.
 6. DTW BLS = Depth to water below land surface in feet.
 7. GW Elevation = Ground water elevation (not adjusted for free product)
 8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
 9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
 10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

TABLE 1.2
SITE AS-843
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 601

Contaminant of Concern 		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
USTAS843-MW01	8/31/2005	
USTAS843-MW02	8/31/2005	
USTAS843-MW03	8/31/2005	
USTAS843-MW04	8/31/2005	
USTAS843-MW05	8/31/2005	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.3
SITE AS-843
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern →					
<u>Well ID</u>	<u>Date</u>	<u>Benzene</u>	<u>Ethylbenzene</u>	<u>m/p-Xylene</u>	<u>Toluene</u>
2L GWQS		1	550	530	1000
GCL		5000	550000	87500	257500
USTAS843-MW01	8/31/2005	BQL	BQL	BQL	BQL
USTAS843-MW02	8/31/2005	BQL	BQL	BQL	0.63
USTAS843-MW03	8/31/2005	1.05	3.69	0.64	0.72
USTAS843-MW04	8/31/2005	BQL	BQL	BQL	0.49
USTAS843-MW05	8/31/2005	BQL	0.32	0.92	0.67

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.4A
SITE AS-843
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 6210D

Contaminant of Concern 														
<u>Well ID</u>	<u>Date</u>	1,2,4-Trimethylbenzene	4-Isopropyltoluene	Benzene	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propyl benzene	sec-Butylbenzene	tert-Butylbenzene	Toluene	Total Xylenes
2L GWQS		350	0	1	70	550	70	21	70	70	70	70	1000	530
GCL		28500	0	5000	70000	550000	25000	15500	6900	30000	8500	15000	257500	87500
USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS843-MW02	7/5/2006	BQL	0.44	0.16	1.88	BQL	BQL	0.83	0.55	BQL	0.34	BQL	BQL	BQL
USTAS843-MW03	7/6/2006	0.84	0.39	1.17	1.46	5.68	3.50	23.00	1.08	2.90	2.98	0.49	BQL	0.18
USTAS843-MW04	7/6/2006	BQL	0.40	BQL	BQL	BQL	1.39	1.15	0.87	1.73	1.36	BQL	BQL	BQL
USTAS843-MW05	7/5/2006	0.21	BQL	BQL	BQL	BQL	BQL	12.90	BQL	BQL	BQL	BQL	0.22	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.4B
SITE AS-843
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 6210D

Contaminant of Concern 														
Well ID	Date	1,2,4-Trimethylbenzene	4-Isopropyltoluene	Benzene	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propyl benzene	sec-Butylbenzene	tert-Butylbenzene	Toluene	Total Xylenes
2L GWQS		350	0	1	70	550	70	21	70	70	70	70	1000	530
GCL		28500	0	5000	70000	550000	25000	15500	6900	30000	8500	15000	257500	87500
USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS843-MW02	7/5/2006	BQL	0.44	0.16	1.88	BQL	BQL	0.83	0.55	BQL	0.34	BQL	BQL	BQL
USTAS843-MW03	7/6/2006	0.84	0.39	1.17	1.46	5.68	3.50	23.00	1.08	2.90	2.98	0.49	BQL	0.18
USTAS843-MW04	7/6/2006	BQL	0.40	BQL	BQL	BQL	1.39	1.15	0.87	1.73	1.36	BQL	BQL	BQL
USTAS843-MW05	7/5/2006	0.21	BQL	BQL	BQL	BQL	BQL	12.90	BQL	BQL	BQL	BQL	0.22	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.5A
SITE AS-843
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 625

Contaminant of Concern →					
<u>Well ID</u>	<u>Date</u>	Acenaphthene	Fluorene	Naphthalene	Phenanthrene
2L GWQS		80	280	21	210
GCL		2120	950	15500	410
USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL
USTAS843-MW02	7/5/2006	2.00	BQL	BQL	BQL
USTAS843-MW03	7/6/2006	4.10	4.40	12.30	BQL
USTAS843-MW04	7/6/2006	BQL	1.90	BQL	2.10
USTAS843-MW05	7/5/2006	BQL	BQL	9.50	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.5B
SITE AS-843
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 625

Contaminant of Concern →					
<u>Well ID</u>	<u>Date</u>	Acenaphthene	Fluorene	Naphthalene	Phenanthrene
2L GWQS		80	280	21	210
GCL		2120	950	15500	410
USTAS843-MW01	8/31/2005	BQL	BQL	BQL	BQL
USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL
USTAS843-MW02	8/31/2005	2.20	BQL	BQL	BQL
USTAS843-MW02	7/5/2006	2.00	BQL	BQL	BQL
USTAS843-MW03	8/31/2005	5.60	5.30	12.70	BQL
USTAS843-MW03	7/6/2006	4.10	4.40	12.30	BQL
USTAS843-MW04	8/31/2005	4.80	5.10	1.30	4.30
USTAS843-MW04	7/6/2006	BQL	1.90	BQL	2.10
USTAS843-MW05	8/31/2005	1.90	BQL	23.80	BQL
USTAS843-MW05	7/5/2006	BQL	BQL	9.50	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.6A
SITE AS-843
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
MADEP VPH/EPH

Contaminant of Concern →				
<u>Well ID</u>	<u>Date</u>	C19-C36 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
2L GWQS		42000	4200	210
GCL		0	0	0
USTAS843-MW01	7/5/2006	BQL	BQL	BQL
USTAS843-MW02	7/5/2006	BQL	BQL	BQL
USTAS843-MW03	7/6/2006	BQL	380.00	320.00
USTAS843-MW04	7/6/2006	BQL	610.00	330.00
USTAS843-MW05	7/5/2006	BQL	BQL	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 1.6B
SITE AS-843
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
MADEP VPH/EPH

Contaminant of Concern →				
<u>Well ID</u>	<u>Date</u>	C19-C36 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics
2L GWQS		42000	4200	210
GCL		0	0	0
USTAS843-MW01	8/31/2005	BQL	BQL	BQL
USTAS843-MW01	7/5/2006	BQL	BQL	BQL
USTAS843-MW02	8/31/2005	BQL	BQL	BQL
USTAS843-MW02	7/5/2006	BQL	BQL	BQL
USTAS843-MW03	8/31/2005	130.00	920.00	190.00
USTAS843-MW03	7/6/2006	BQL	380.00	320.00
USTAS843-MW04	8/31/2005	210.00	1150.00	300.00
USTAS843-MW04	7/6/2006	BQL	610.00	330.00
USTAS843-MW05	8/31/2005	BQL	BQL	BQL
USTAS843-MW05	7/5/2006	BQL	BQL	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Free Product	Vegetation Cover
⊙ Type I	● Free Product Detected	Forestland
⊕ Type II	● No Measurable Product	Scrubland
⊗ Type III	▭ Free Product Plume	Wetland
⊙ Pumping Well	▭ Buildings and Structures	Airfield Pavement
⊗ Unknown Well Type	▭ Demolished Structures	HELIPAD
● Water Supply Wells	▭ Oil/Water Separators	RAMP
▭ Above Ground Storage Tank	▭ Slabs	RUNWAY
▭ Underground Storage Tank	▭ Roads	SHLDR_OVERRUN
— Railroad Tracks	▭ Driveways	TAXIWAY
⊗ FENCE	▭ Parking Lots	
△ GATE	▭ Surface Water Bodies	
— WALL	▭ Creeks and Streams	
	➔ Groundwater Flow Direction	

NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.

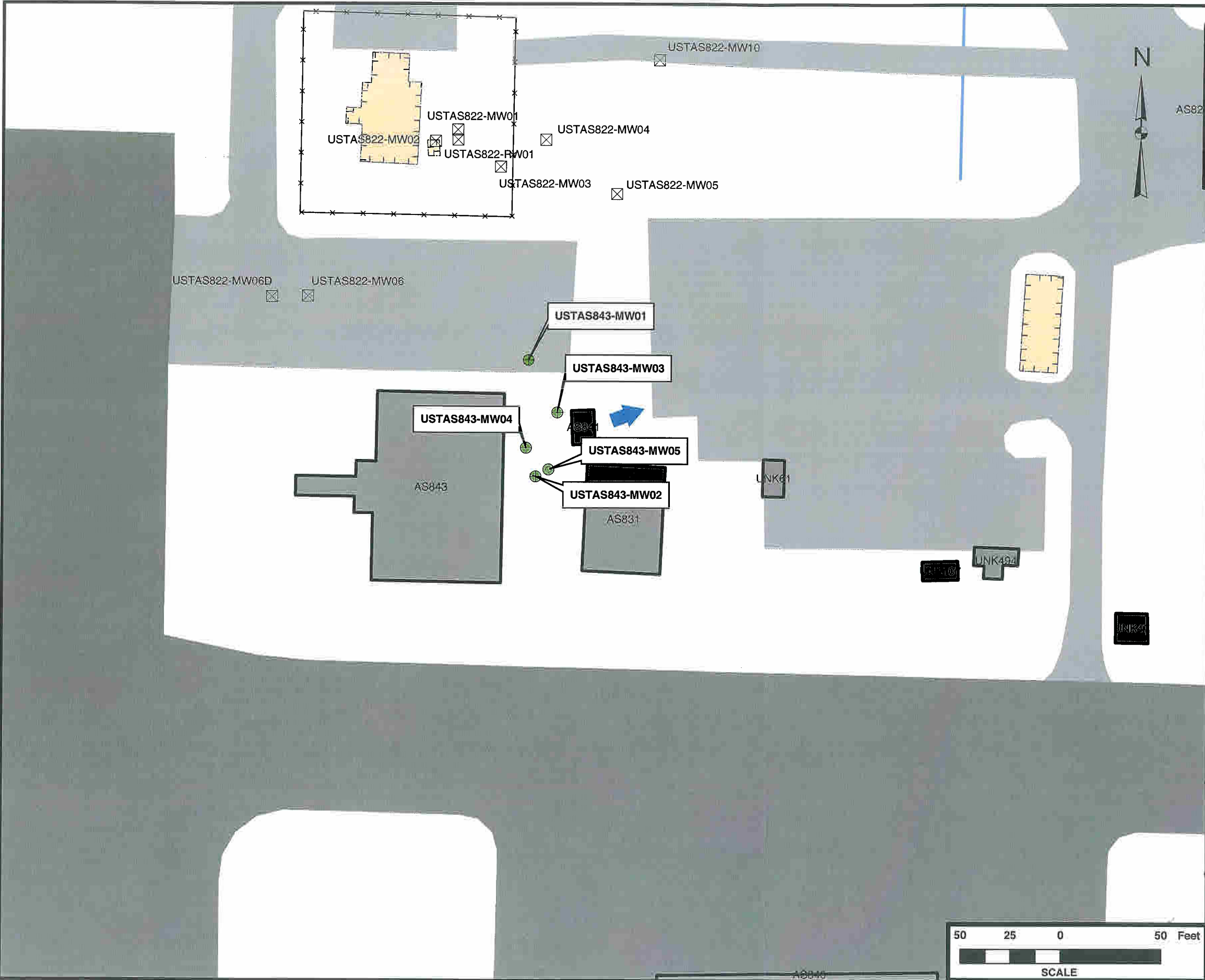


SITE AS-843
FREE PRODUCT PLUME MAP
THIRD QUARTER 2006

FIGURE

1.1

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

- Monitoring Wells**

 - Type I
 - Type II
 - Type III
 - Pumping Well
 - Unknown Well Type
 - Water Supply Wells
 - Above Ground Storage Tank
 - Underground Storage Tank
 - Railroad Tracks
 - FENCE
 - GATE
 - WALL
- Analytical Results**

 - 2L Non-Compliant
 - 2L Compliant
 - EPA 6210D Plume
 - Buildings and Structures
 - Demolished Structures
 - Oil/Water Separators
 - Slabs
 - Roads
 - Driveways
 - Parking Lots
 - Surface Water Bodies
 - Creeks and Streams
 - Groundwater Flow Direction
- Vegetation Cover**

 - Forestland
 - Scrubland
 - Wetland

Airfield Pavement

 - HELIPAD
 - RAMP
 - RUNWAY
 - SHLDR_OVERRUN
 - TAXIWAY

NOTES

- 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
- GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
- A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.



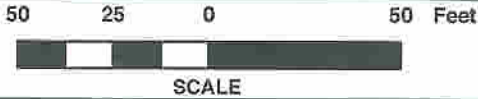
SITE AS-843 EPA METHOD 6210D
COLORIMETRY AND PLUME IN
EXCESS OF 2L - THIRD QUARTER 2006

FIGURE

1.2

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS843-MW02	T-II	7/5/2006	EPA 6210D	4-Isopropyltoluene	0.4400	UG/L	0.0000	0.0000
USTAS843-MW03	T-II	7/6/2006	EPA 6210D	4-Isopropyltoluene	0.3900	UG/L	0.0000	0.0000
USTAS843-MW03	T-II	7/6/2006	EPA 6210D	Benzene	1.1700	UG/L	1.0000	5000.0000
USTAS843-MW03	T-II	7/6/2006	EPA 6210D	Naphthalene	23.0000	UG/L	21.0000	15500.0000
USTAS843-MW04	T-II	7/6/2006	EPA 6210D	4-Isopropyltoluene	0.4000	UG/L	0.0000	0.0000



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Analytical Results	Vegetation Cover
○ Type I	● 2L Non-Compliant	Forestland
⊕ Type II	● 2L Compliant	Scrubland
⊙ Type III	▨ EPA 625 Plume	Wetland
⊖ Pumping Well	▨ Buildings and Structures	Airfield Pavement
⊠ Unknown Well Type	▨ Demolished Structures	HELIPAD
● Water Supply Wells	▨ Oil/Water Separators	RAMP
■ Above Ground Storage Tank	▨ Slabs	RUNWAY
■ Underground Storage Tank	▨ Roads	SHLDR_OVERRUN
— Railroad Tracks	▨ Driveways	TAXIWAY
⊠ FENCE	▨ Parking Lots	
△ GATE	▨ Surface Water Bodies	
— WALL	▨ Creeks and Streams	
	➔ Groundwater Flow Direction	

NOTES

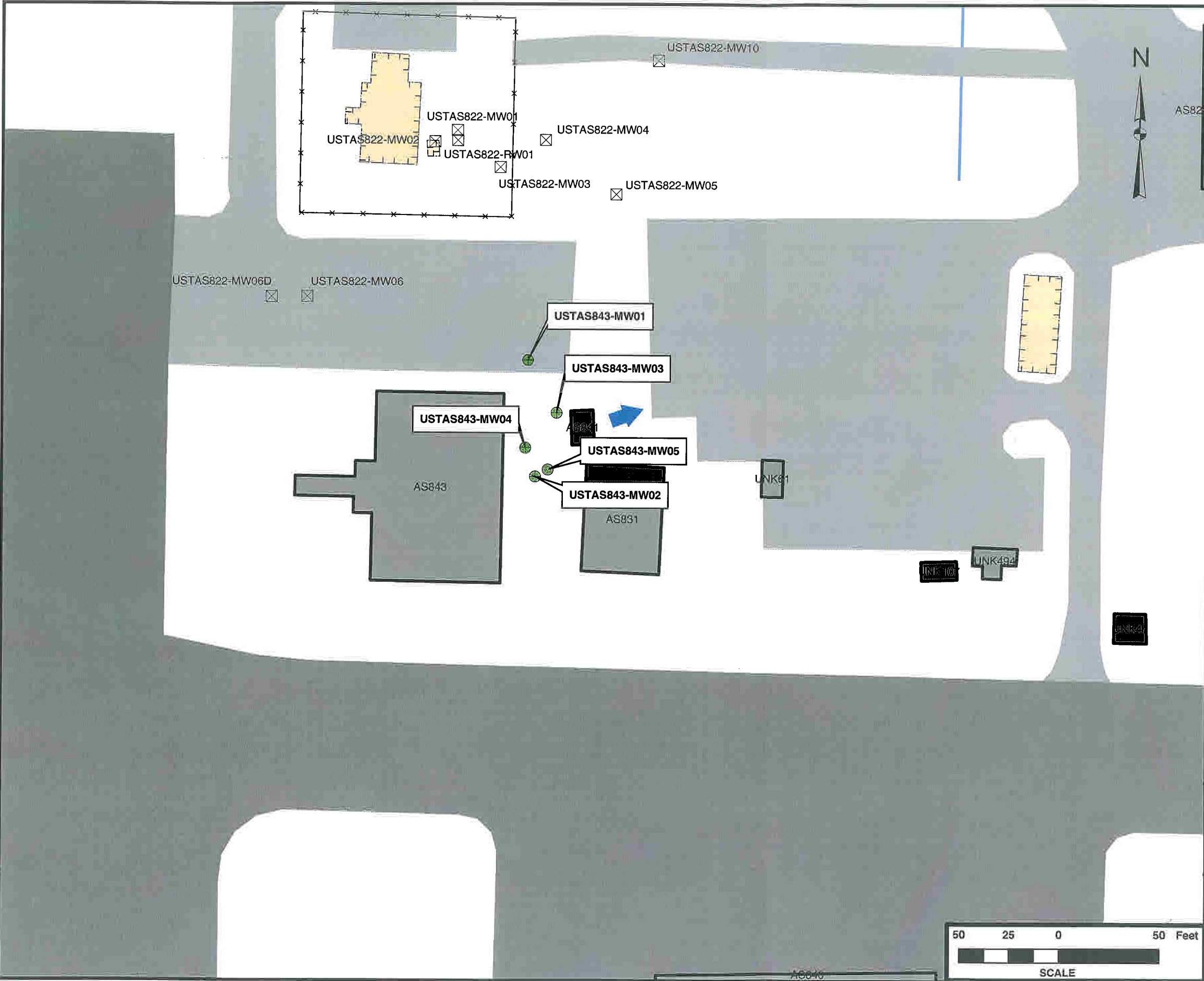
1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.



SITE AS-843 EPA METHOD 625
COLORIMETRY AND PLUME IN
EXCESS OF 2L - THIRD QUARTER 2006

FIGURE
1.3

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells

- Type I
- Type II
- Type III
- Pumping Well
- Unknown Well Type
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank
- Railroad Tracks
- FENCE
- GATE
- WALL

Analytical Results

- 2L Non-Compliant
- 2L Compliant
- MADEP Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover

- Forestland
- Scrubland
- Wetland

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

- 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
- GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
- A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

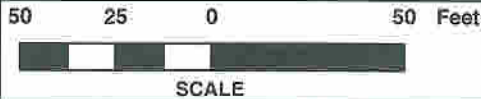


SITE AS-843 MADEP VPH/EPH
COLORIMETRY AND PLUME IN
EXCESS OF 2L - THIRD QUARTER 2006

FIGURE
1.4

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
USTAS843-MW03	T-II	7/6/2006	MADEP VPH/EPH	C9-C22 Aromatics	320.0000	UG/L	210.0000	0.0000
USTAS843-MW04	T-II	7/6/2006	MADEP VPH/EPH	C9-C22 Aromatics	330.0000	UG/L	210.0000	0.0000



SECTION 2.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 311

NCDENR INCIDENT NO. 21409



2.0 EXECUTIVE SUMMARY SITE 311

2.1 Site Information

- 2.1.1 Site Location:** MCB Camp Lejeune
- 2.1.2 Incident Number(s):** 21409
- 2.1.3 UTM Coordinates (WGS84, Meters):** 284750.94 Easting, 3838106.65 Northing
- 2.1.4 Risk Classification:** Low
- 2.1.5 Land Use Classification:** Residential
- 2.1.6 Source Type(s):** 551 gallon Kerosene UST

2.2 Monitoring Event Information

- 2.2.1 Sampling Performed By:** EEI
- 2.2.2 Date(s) of This Monitoring Event:** Site not monitored during 2006
- 2.2.3 Date(s) of Previous Monitoring Event:** October and November 2005
- 2.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 2.2.5 Site Monitoring Status at Time of This Event:** Site not monitored during 2006 as site closure was granted on March 8, 2006 by the North Carolina Department of Environment and Natural Resources (NCDENR).

2.3 Groundwater Hydraulics

- 2.3.1 Hydraulic Conductivity:** Unknown
- 2.3.2 Effective Porosity:** Unknown
- 2.3.3 Hydraulic Gradient:** Unknown
- 2.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 2.3.5 Groundwater Flow Direction:** Unknown
- 2.3.6 Range of Measured Water Table Elevations:** Not Measured
- 2.3.7 Significant Changes from Previously Reported Data:** Not Applicable. No data was collected during 2006.

2.4 Free Product Plume

- 2.4.1 Free Product Present?:** No
- 2.4.2 Free Product Thickness Measured:** Not Measured
- 2.4.3 Plume Size and Location:** Not Measured
- 2.4.4 Free Product Removed from Site This Period:** None
- 2.4.5 Significant Changes from Previously Reported Data:** Not Applicable. No data was collected during 2006.

2.5 Dissolved-Phase Plume

2.5.1 Plume Concentrations: Not Measured

2.5.2 Plume Size and Location: Not Measured

2.5.3 Significant Changes from Previously Reported Data: Not Applicable. No data was collected during 2006 and this is the first Management Report prepared by CATLIN. However, the most recent sampling data collected (October and November 2005) revealed no groundwater contaminants in excess of the 2L GWQS, therefore the NCDENR granted "No Further Action" (NFA) status to the subject site on March 8, 2006.

2.6 Potential Receptors

2.6.1 Contaminated Water Supply Well(s)?: None

2.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

2.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

2.6.4 Surface Water Body Within 500 Feet?: No

2.6.5 Past Evidence of Vapors?: No

2.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

2.7 Remediation

2.7.1 Status: Complete

2.7.2 Type: No active remediation, Natural Attenuation only

2.7.3 Progress: Complete

2.7.4 Construction Contractor: Not Applicable

2.7.5 Operating Contractor: Not Applicable

2.8 Observations and Comments

No further environmental investigation is necessary at this site as the NCDENR granted NFA status on March 8, 2006. The one on-site monitoring well (UST311-MW06) should be considered for abandonment.

SECTION 3.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 728 (Gottschalk Marina)

NCDENR INCIDENT NO. 20443



3.0 EXECUTIVE SUMMARY

SITE 728 (Gottschalk Marina)

3.1 Site Information

- 3.1.1 Site Location:** MCB Camp Lejeune
- 3.1.2 Incident Number(s):** 20443
- 3.1.3 UTM Coordinates (WGS84) (Meters):** 283614.03 Easting, 3839714.18 Northing
- 3.1.4 Risk Classification:** Low
- 3.1.5 Land Use Classification:** Residential
- 3.1.6 Source Type(s):** 250 gallon Fuel Oil UST and 1,000 gallon Gasoline UST

3.2 Monitoring Event Information

- 3.2.1 Sampling Performed By:** Sovereign (Soil sampling only, May 2006)
- 3.2.2 Date(s) of This Monitoring Event:** No groundwater sampling under the UST Program during 2006
- 3.2.3 Date(s) of Previous Monitoring Event:** No groundwater sampling under the UST Program during 2005
- 3.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 3.2.5 Site Monitoring Status at Time of This Event:** Site has been transferred to the MCB Camp Lejeune IR Program

3.3 Groundwater Hydraulics

- 3.3.1 Hydraulic Conductivity:** Ranged from 1.1 to 1.9 feet/day (1992 Site Assessment by Versar, Inc.)
- 3.3.2 Effective Porosity:** Unknown
- 3.3.3 Hydraulic Gradient:** Unknown
- 3.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 3.3.5 Groundwater Flow Direction:** North
- 3.3.6 Range of Measured Water Table Elevations:** Not Measured
- 3.3.7 Significant Changes from Previously Reported Data:** Not Applicable. No data was collected during 2005 or 2006.

3.4 Free Product Plume

- 3.4.1 Free Product Present?:** No
- 3.4.2 Free Product Thickness Measured:** No measurements taken during 2005 or 2006
- 3.4.3 Plume Size and Location:** Not Applicable
- 3.4.4 Free Product Removed from Site This Period:** None
- 3.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This the first Management Report prepared by CATLIN.

3.5 Dissolved-Phase Plume

3.5.1 Plume Concentrations: Not Measured

3.5.2 Plume Size and Location: Not Measured

3.5.3 Significant Changes from Previously Reported Data: Not Applicable. This the first Management Report prepared by CATLIN.

3.6 Potential Receptors

3.6.1 Contaminated Water Supply Well(s)?: None

3.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

3.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

3.6.4 Surface Water Body Within 500 Feet?: Yes, Wallace Creek is located approximately 50 feet north of the site.

3.6.5 Past Evidence of Vapors?: No

3.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This the first Management Report prepared by CATLIN.

3.7 Remediation

3.7.1 Status: Complete

3.7.2 Type: Soil excavation

3.7.3 Progress: Complete

3.7.4 Construction Contractor: Shaw Environment and Infrastructure, Inc. (Shaw)

3.7.5 Operating Contractor: Sovereign (Soil Sampling Only)

3.8 Observations and Comments

Sovereign collected one soil sample in May 2006 at the location which exceeded the action level during the 2005 tank closure sampling performed by Shaw. Analytical results from the May 2006 soil sampling indicated Benzene at concentrations above the Soil-to-Groundwater MSCCs, however no compounds were detected in excess of the Residential MSCCs.

Any additional investigative activities at this site will be conducted under the MCB Camp Lejeune IR Program. The site has been approved for "NFA with land use restrictions" under the UST Program upon approval of the land use restrictions documentation.

SECTION 4.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE 1070 (Michael Road Fuel Farm)

NCDENR INCIDENT NO. 32214



4.0 EXECUTIVE SUMMARY

SITE 1070 (Michael Road Fuel Farm)

4.1 Site Information

- 4.1.1 Site Location:** MCB Camp Lejeune
- 4.1.2 Incident Number(s):** 32214
- 4.1.3 UTM Coordinates (WGS84) (Meters):** 286560.48 Easting, 3839242.87 Northing
- 4.1.4 Risk Classification:** Low
- 4.1.5 Land Use Classification:** Residential
- 7.1.6 Source Type(s):** 2,500-gallon UST containing mixed fuel

4.2 Monitoring Event Information

- 4.2.1 Sampling Performed By:** Sovereign
- 4.2.2 Date(s) of This Monitoring Event:** 1/12/06
- 4.2.3 Date(s) of Previous Monitoring Event:** 3/7/05
- 4.2.4 Reason(s) for This Monitoring Event:** Track attenuation of dissolved-phase plume.
- 4.2.5 Site Monitoring Status at Time of This Event:** Annual sampling of one on-site monitoring well to determine if contaminant concentrations have naturally attenuated to below the 2L GWQS.

4.3 Groundwater Hydraulics

- 4.3.1 Hydraulic Conductivity:** Unknown
- 4.3.2 Effective Porosity:** Unknown
- 4.3.3 Hydraulic Gradient:** Unknown
- 4.3.4 Average Linear Groundwater Flow Velocity:** Not Measured
- 4.3.5 Groundwater Flow Direction:** Unknown
- 4.3.6 Range of Measured Water Table Elevations:** 22.83 feet above MSL in UST1070-MW02 (See Table 4.1)
- 4.3.7 Significant Changes from Previously Reported Data:** Not Applicable. The data collected during this monitoring period is the first under the Camp Lejeune UST Management Program developed by CATLIN.

4.4 Free Product Plume

- 4.4.1 Free Product Present?:** No
- 4.4.2 Free Product Thickness Measured:** See Table 4.1
- 4.4.3 Plume Size and Location:** See Figure 4.1
- 4.4.4 Free Product Removed from Site This Period:** None
- 4.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

4.5 Dissolved-Phase Plume

4.5.1 Plume Concentrations: See Tables 4.2A and 4.2B

4.5.2 Plume Size and Location: See Figure 4.2

4.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results compared to the 2L GWQS are discussed as follows:

MADEP VPH/EPH

During the current monitoring event all MADEP VPH/EPH fractions were reported as BQL. During the March 2005 monitoring event the C₉-C₂₂ Aromatics Hydrocarbon Fraction was detected in UST1070-MW02 at a concentration of <230 ug/L, which was above the 2L GWQS of 210 ug/L for this compound.

4.6 Potential Receptors

4.6.1 Contaminated Water Supply Well(s)?: No

4.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

4.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

4.6.4 Surface Water Body Within 500 Feet?: Yes. A retention pond is located approximately 290 feet southwest the site.

4.6.5 Past Evidence of Vapors?: No

4.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

4.7 Remediation

4.7.1 Status: Complete

4.7.2 Type: Soil Excavation

4.7.3 Progress: Complete

4.7.4 Construction Contractor: Shaw

4.7.5 Operating Contractor: Sovereign

4.8 Observations and Comments

No further environmental investigation is necessary at this site as the NCDENR granted NFA status on July 10, 2006 by the NCDENR. The two on-site monitoring wells (UST1070-MW01 and UST1070-MW02) were abandoned in October 2006.

TABLE 4.1
SITE 1070
FIELD MEASUREMENTS - FIRST QUARTER 2006

Date Measured: 1/12/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
UST1070-MW02	T-II	28.68		5.85	0.00		22.83

- Notes:
1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
 2. TOC = Top of well casing elevation.
 3. STICK UP = Height of well casing above land surface in feet.
 4. DTW = Depth to water (in feet) from top of well casing.
 5. Product thickness is measured in feet.
 6. DTW BLS = Depth to water below land surface in feet.
 7. GW Elevation = Ground water elevation (not adjusted for free product)
 8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
 9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
 10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

TABLE 4.2A
SITE 1070
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
MADEP VPH/EPH

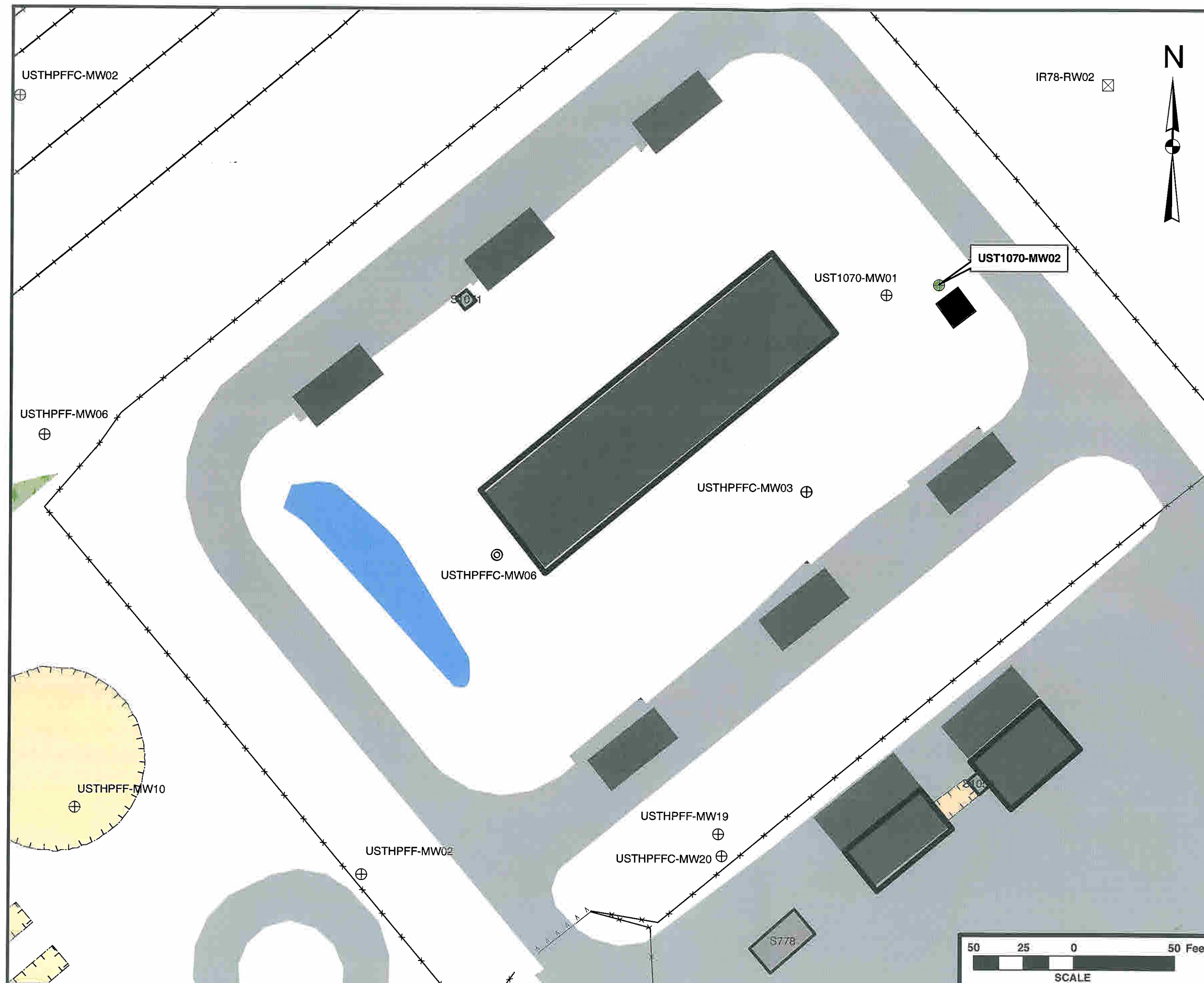
Contaminant of Concern 		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
UST1070-MW02	1/12/2006	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 4.2B
SITE 1070
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
MADEP VPH/EPH

Contaminant of Concern →		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
UST1070-MW02	1/12/2006	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL



MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM



LEGEND

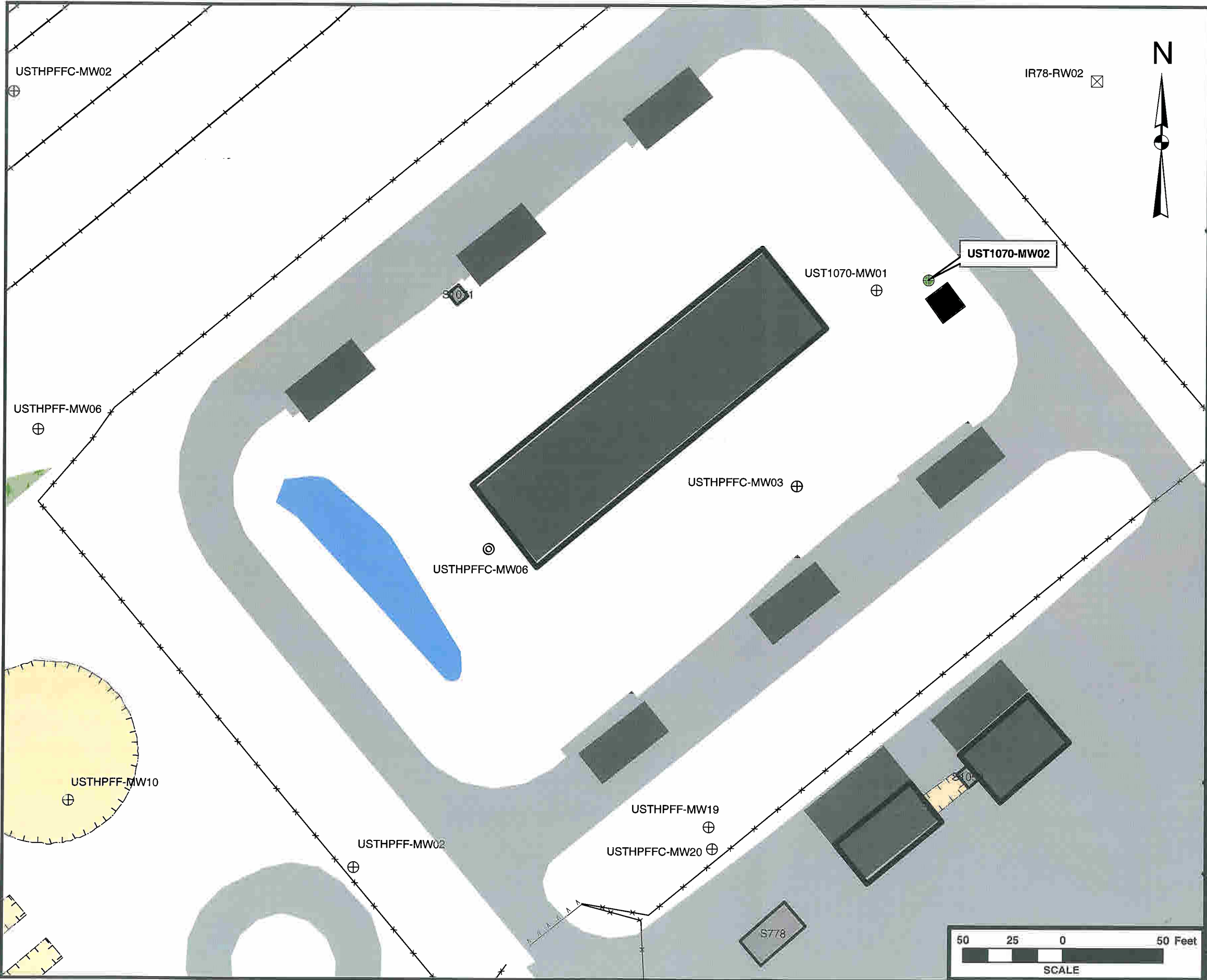
Monitoring Wells - Type I - Type II - Type III - Pumping Well - Unknown Well Type - Water Supply Wells - Above Ground Storage Tank - Underground Storage Tank - Railroad Tracks - FENCE - GATE - WALL	Free Product - Free Product Detected - No Measurable Product - Free Product Plume - Buildings and Structures - Demolished Structures - Oil/Water Separators - Slabs - Roads - Driveways - Parking Lots - Surface Water Bodies - Creeks and Streams - Groundwater Flow Direction	Vegetation Cover - Forestland - Scrubland - Wetland Airfield Pavement - HELIPAD - RAMP - RUNWAY - SHLDR_OVERRUN - TAXIWAY
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NOTES

1. Free product was not detected at this site in any of the wells gauged during this monitoring event.



SITE 1070 FREE PRODUCT PLUME MAP - FIRST QUARTER 2006		FIGURE 4.1		
Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Analytical Results	Vegetation Cover
⊕ Type I	● 2L Non-Compliant	Forestland
⊕ Type II	● 2L Compliant	Scrubland
⊕ Type III	MADEP Plume	Wetland
⊕ Pumping Well	Buildings and Structures	Airfield Pavement
⊕ Unknown Well Type	Demolished Structures	HELIPAD
Water Supply Wells	Oil/Water Separators	RAMP
Above Ground Storage Tank	Slabs	RUNWAY
Underground Storage Tank	Roads	SHLDR_OVERRUN
Railroad Tracks	Driveways	TAXIWAY
Walls and Fences	Parking Lots	
FENCE	Surface Water Bodies	
GATE	Creeks and Streams	
WALL	Groundwater Flow Direction	

NOTES

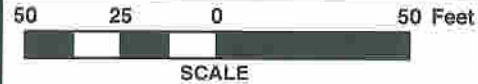
1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.



SITE 1070 MADEP VPH/EPH
COLORIMETRY AND PLUME IN
EXCESS OF 2L - FIRST QUARTER 2006

FIGURE

4.2



Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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SECTION 5.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

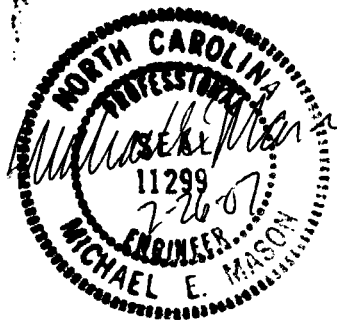
MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE FC-40-3

NCDENR INCIDENT NO. 24222



5.0 EXECUTIVE SUMMARY

SITE FC-40-3

5.1 Site Information

- 5.1.1 Site Location:** MCB Camp Lejeune
- 5.1.2 Incident Number(s):** 24222
- 5.1.3 UTM Coordinates (WGS84) (Meters):** 287812.86 Easting, 3837422.56 Northing
- 5.1.4 Risk Classification:** Low
- 5.1.5 Land Use Classification:** Industrial/Commercial
- 5.1.6 Source Type(s):** 1,000 gallon Used Oil UST

5.2 Monitoring Event Information

- 5.2.1 Sampling Performed By:** No sampling performed
- 5.2.2 Date(s) of This Monitoring Event:** No sampling performed during 2006
- 5.2.3 Date(s) of Previous Monitoring Event:** No sampling performed during 2005 (Groundwater sampling last conducted November 2004)
- 5.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 5.2.5 Site Monitoring Status at Time of This Event:** Site was approved for NFA with Land Use Restrictions on July 12, 2005, however it is recommended the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

5.3 Groundwater Hydraulics

- 5.3.1 Hydraulic Conductivity:** Unknown
- 5.3.2 Effective Porosity:** Unknown
- 5.3.3 Hydraulic Gradient:** Unknown
- 5.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 5.3.5 Groundwater Flow Direction:** Unknown
- 5.3.6 Range of Measured Water Table Elevations:** Not Measured
- 5.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

5.4 Free Product Plume

- 5.4.1 Free Product Present?:** No
- 5.4.2 Free Product Thickness Measured:** Not Measured
- 5.4.3 Plume Size and Location:** Not Measured
- 5.4.4 Free Product Removed from Site This Period:** None
- 5.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

5.5 Dissolved-Phase Plume

5.5.1 Plume Concentrations: Not Measured

5.5.2 Plume Size and Location: Not Measured

5.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

Bis(2-ethylhexyl)phthalate analyzed per EPA Method 625 was detected at a concentration of 44.3 ug/L which is above the 2L GWQS of 2.5 ug/L for this compound. Also, three MADEP fractions were detected at concentrations above the 2L GWQS (C₉-C₁₈ Aliphatics: Result = 14,510 ug/L, 2L GWQS = 4,200 ug/L; C₁₉-C₃₆ Aliphatics: Result = 250,000 ug/L, 2L GWQS = 42,000 ug/L; and C₉-C₂₂ Aromatics: Result = 48,490 ug/L, 2L GWQS = 210 ug/L).

5.6 Potential Receptors

5.6.1 Contaminated Water Supply Well(s)?: None

5.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

5.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

5.6.4 Surface Water Body Within 500 Feet?: No

5.6.5 Past Evidence of Vapors?: No

5.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

5.7 Remediation

5.7.1 Status: Complete

5.7.2 Type: Soil Excavation

5.7.3 Progress: Complete

5.7.4 Construction Contractor: J.A. Jones, Inc. (J.A. Jones)

5.7.5 Operating Contractor: None

5.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per EPA Method 625 and MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed for this site.

SECTION 6.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE FC-201 East

NCDENR INCIDENT NO. 23741



6.0 EXECUTIVE SUMMARY SITE FC-201 East

6.1 Site Information

- 6.1.1 Site Location:** MCB Camp Lejeune
- 6.1.2 Incident Number(s):** 23741
- 6.1.3 UTM Coordinates (WGS84) (Meters):** 287107.16 Easting, 3837155.50 Northing
- 6.1.4 Risk Classification:** Low
- 6.1.5 Land Use Classification:** Industrial/Commercial
- 6.1.6 Source Type(s):** 550 gallon Waste Oil UST

6.2 Monitoring Event Information

- 6.2.1 Sampling Performed By:** Sovereign
- 6.2.2 Date(s) of This Monitoring Event:** 4/5/06
- 6.2.3 Date(s) of Previous Monitoring Event:** 11/30/04
- 6.2.4 Reason(s) for This Monitoring Event:** Track attenuation of dissolved-phase plume.
- 6.2.5 Site Monitoring Status at Time of This Event:** Annual sampling of one on-site monitoring well per EPA Methods 6210D, 625, 6010B and MADEP EPH/VPH.

6.3 Groundwater Hydraulics

- 6.3.1 Hydraulic Conductivity:** 0.8 feet/day (From 1994 CSA by Law)
- 6.3.2 Effective Porosity:** 0.20 (From 1994 CSA by Law)
- 6.3.3 Hydraulic Gradient:** 0.007 feet/foot (From 1994 CSA by Law)
- 6.3.4 Average Linear Groundwater Flow Velocity:** 0.028 feet/day (From 1994 CSA by Law)
- 6.3.5 Groundwater Flow Direction:** In the northern portion of the site groundwater flow direction is to the north. In the southern portion of the site groundwater flow direction is to the southwest. (See Figure 6.1)
- 6.3.6 Range of Measured Water Table Elevations:** See Table 6.1
- 6.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

6.4 Free Product Plume

- 6.4.1 Free Product Present?:** No
- 6.4.2 Free Product Thickness Measured:** See Table 6.1
- 6.4.3 Plume Size and Location:** See Figure 6.1
- 6.4.4 Free Product Removed from Site This Period:** None
- 6.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

6.5 Dissolved-Phase Plume

6.5.1 Plume Concentrations: See Tables 6.2A through 6.5B

6.5.2 Plume Size and Location: See Figures 6.2 through 6.6

6.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. Groundwater sample analytical results compared to the 2L GWQS are discussed as follows:

EPA METHOD 6210D

No EPA Method 6210D compounds were detected above the corresponding 2L GWQS.

EPA METHOD 625

No EPA Method 625 compounds were detected above the corresponding 2L GWQS.

EPA METHOD 6010B

No EPA Method 6010B compounds were detected above the corresponding 2L GWQS.

MADEP VPH/EPH

No MADEP VPH/EPH compounds were detected above the corresponding 2L GWQS.

6.6 Potential Receptors

6.6.1 Contaminated Water Supply Well(s)?: None

6.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

6.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

6.6.4 Surface Water Body Within 500 Feet?: No

6.6.5 Past Evidence of Vapors?: No

6.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

6.7 Remediation

6.7.1 Status: Complete

6.7.2 Type: Soil Excavation and Natural Attenuation

6.7.3 Progress: Complete

6.7.4 Construction Contractor: J.A. Jones

6.7.5 Operating Contractor: Sovereign

6.8 Observations and Comments

No further environmental investigation is necessary at this site as the NCDENR granted NFA status on November 2, 2006. The on-site monitoring wells should be considered for abandonment.

TABLE 6.1
SITE FC-201(E)
FIELD MEASUREMENTS - SECOND QUARTER 2006

Date Measured: 4/5/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
USTFC201E-MW03R	T-II			6.14	0.00		

- Notes:
1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
 2. TOC = Top of well casing elevation.
 3. STICK UP = Height of well casing above land surface in feet.
 4. DTW = Depth to water (in feet) from top of well casing.
 5. Product thickness is measured in feet.
 6. DTW BLS = Depth to water below land surface in feet.
 7. GW Elevation = Ground water elevation (not adjusted for free product)
 8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
 9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
 10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

TABLE 6.2A
SITE FC201E
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 6210D

Contaminant of Concern →		
<u>Well ID</u>	<u>Date</u>	Naphthalene
2L GWQS		21
GCL		15500
USTFC201E-MW03R	4/5/2006	0.61

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.2B
SITE FC201E
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 6210D

Contaminant of Concern 		
<u>Well ID</u>	<u>Date</u>	Naphthalene
2L GWQS		21
GCL		15500
USTFC201E-MW03R	4/5/2006	0.61

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.3A
SITE FC201E
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 625

Contaminant of Concern 		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
USTFC201E-MW03R	4/5/2006	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.3B
SITE FC201E
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 625

Contaminant of Concern →		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
USTFC201E-MW03R	4/5/2006	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.4A
SITE FC201E
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 6010B

Contaminant of Concern →		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
USTFC201E-MW03R	4/5/2006	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.4B
SITE FC201E
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 6010B

Contaminant of Concern →		
<u>Well ID</u>	<u>Date</u>	
2L GWQS		
GCL		
USTFC201E-MW03R	4/5/2006	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.5A
SITE FC201E
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
MADEP VPH/EPH

Contaminant of Concern 			
<u>Well ID</u>	<u>Date</u>	C19-C36 Aliphatics	C9-C18 Aliphatics
2L GWQS		42000	4200
GCL		0	0
USTFC201E-MW03R	4/5/2006	3500.00	370.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 6.5B
SITE FC201E
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
MADEP VPH/EPH

Contaminant of Concern →			
<u>Well ID</u>	<u>Date</u>	C19-C36 Aliphatics	C9-C18 Aliphatics
2L GWQS		42000	4200
GCL		0	0
USTFC201E-MW03R	4/5/2006	3500.00	370.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

- Monitoring Wells**

 - Type I
 - Type II
 - Type III
 - Pumping Well
 - Unknown Well Type
 - Water Supply Wells
 - Above Ground Storage Tank
 - Underground Storage Tank
 - Railroad Tracks
 - FENCE
 - GATE
 - WALL
- Free Product**

 - Free Product Detected
 - No Measurable Product
 - Free Product Plume
 - Buildings and Structures
 - Demolished Structures
 - Oil/Water Separators
 - Slabs
 - Roads
 - Driveways
 - Parking Lots
 - Surface Water Bodies
 - Creeks and Streams
 - Groundwater Flow Direction
- Vegetation Cover**

 - Forestland
 - Scrubland
 - Wetland

Airfield Pavement

 - HELIPAD
 - RAMP
 - RUNWAY
 - SHLDR_OVERRUN
 - TAXIWAY

NOTES

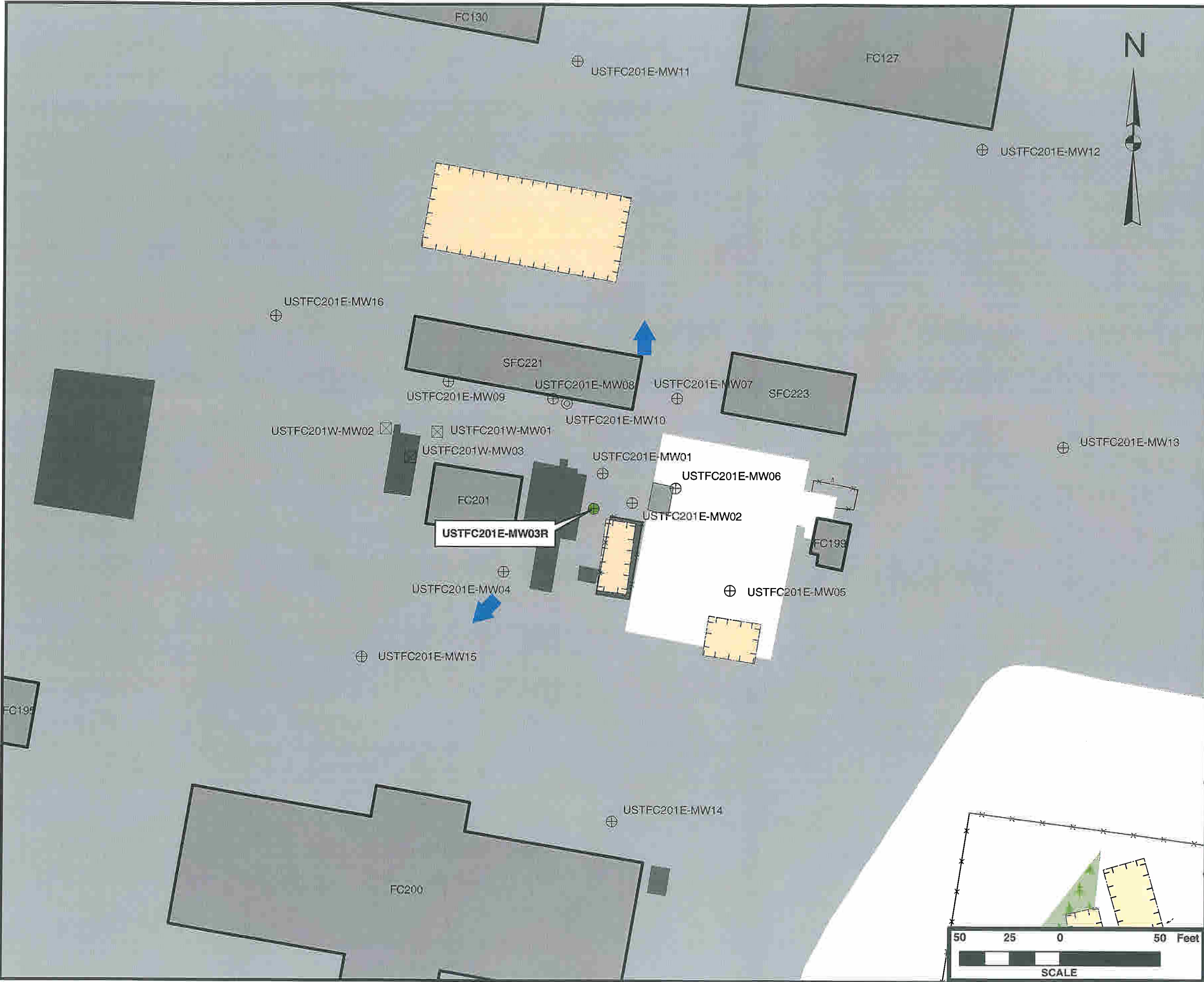
1. Free product was not detected at this site in any of the wells gauged during this monitoring event.



SITE FC-201E FREE PRODUCT
PLUME MAP - SECOND QUARTER 2006

FIGURE
6.1

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Analytical Results	Vegetation Cover
⊕ Type I	● 2L Non-Compliant	Forestland
⊕ Type II	● 2L Compliant	Scrubland
⊕ Type III	■ EPA 6210D Plume	Wetland
⊕ Pumping Well	■ Buildings and Structures	Airfield Pavement
⊕ Unknown Well Type	■ Demolished Structures	HELIPAD
● Water Supply Wells	■ Oil/Water Separators	RAMP
■ Above Ground Storage Tank	■ Slabs	RUNWAY
■ Underground Storage Tank	■ Roads	SHLDR_OVERRUN
— Railroad Tracks	■ Driveways	TAXIWAY
— FENCE	■ Parking Lots	
— GATE	■ Surface Water Bodies	
— WALL	■ Creeks and Streams	
	➡ Groundwater Flow Direction	

NOTES

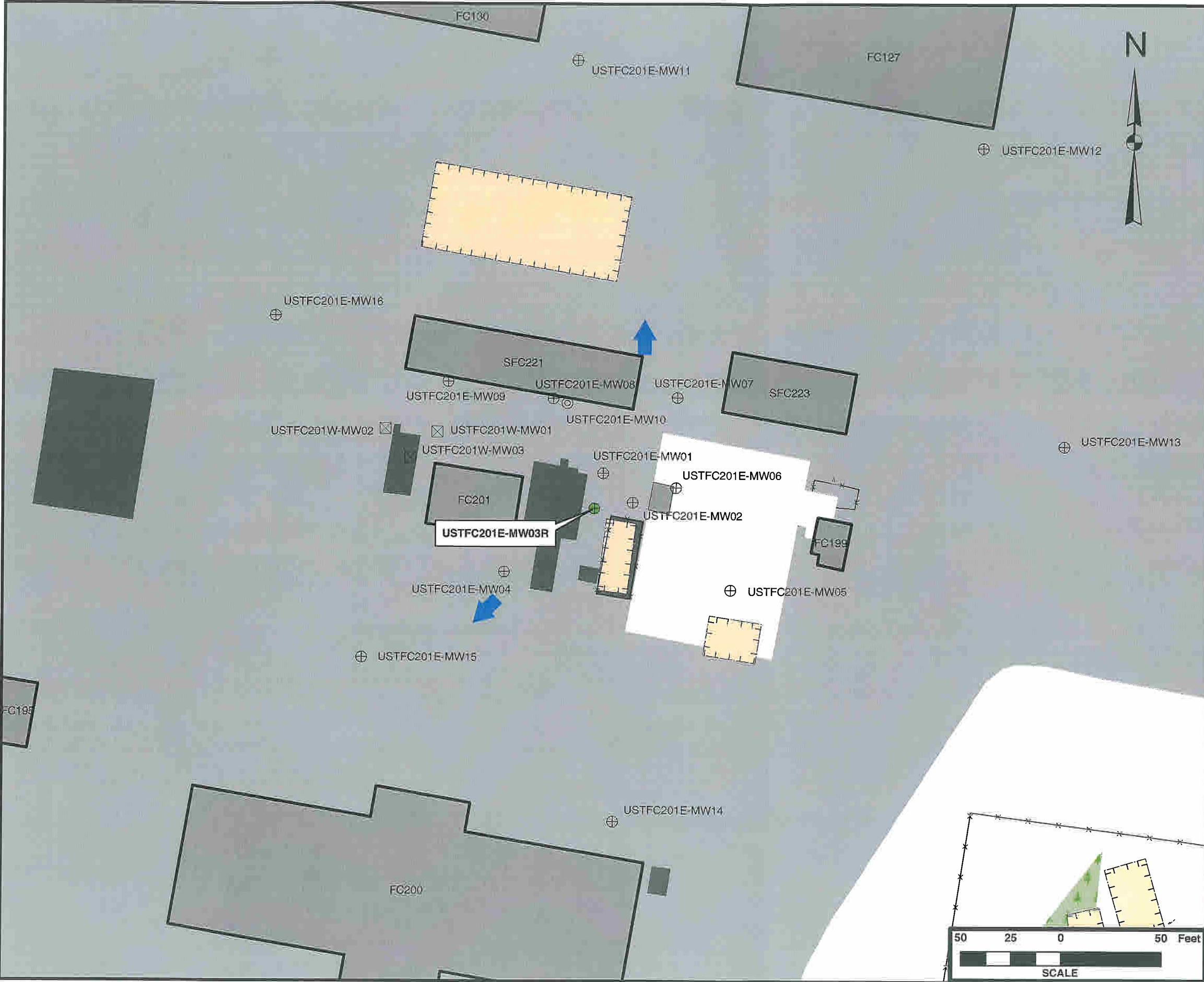
1. No EPA Method 6210D compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.



SITE FC-201E EPA METHOD 6210D
COLORIMETRY AND PLUME IN EXCESS
OF 2L - SECOND QUARTER 2006

FIGURE
6.2

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Analytical Results	Vegetation Cover
⊕ Type I	● 2L Non-Compliant	Forestland
⊕ Type II	● 2L Compliant	Scrubland
⊕ Type III	▨ EPA 625 Plume	Wetland
⊕ Pumping Well	▨ Buildings and Structures	Airfield Pavement
⊕ Unknown Well Type	▨ Demolished Structures	HELIPAD
● Water Supply Wells	▨ Oil/Water Separators	RAMP
■ Above Ground Storage Tank	▨ Slabs	RUNWAY
■ Underground Storage Tank	▨ Roads	SHLDR_OVERRUN
— Railroad Tracks	▨ Driveways	TAXIWAY
— FENCE	▨ Parking Lots	
— GATE	▨ Surface Water Bodies	
— WALL	▨ Creeks and Streams	
	▨ Groundwater Flow Direction	

NOTES

1. No EPA Method 625 compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.

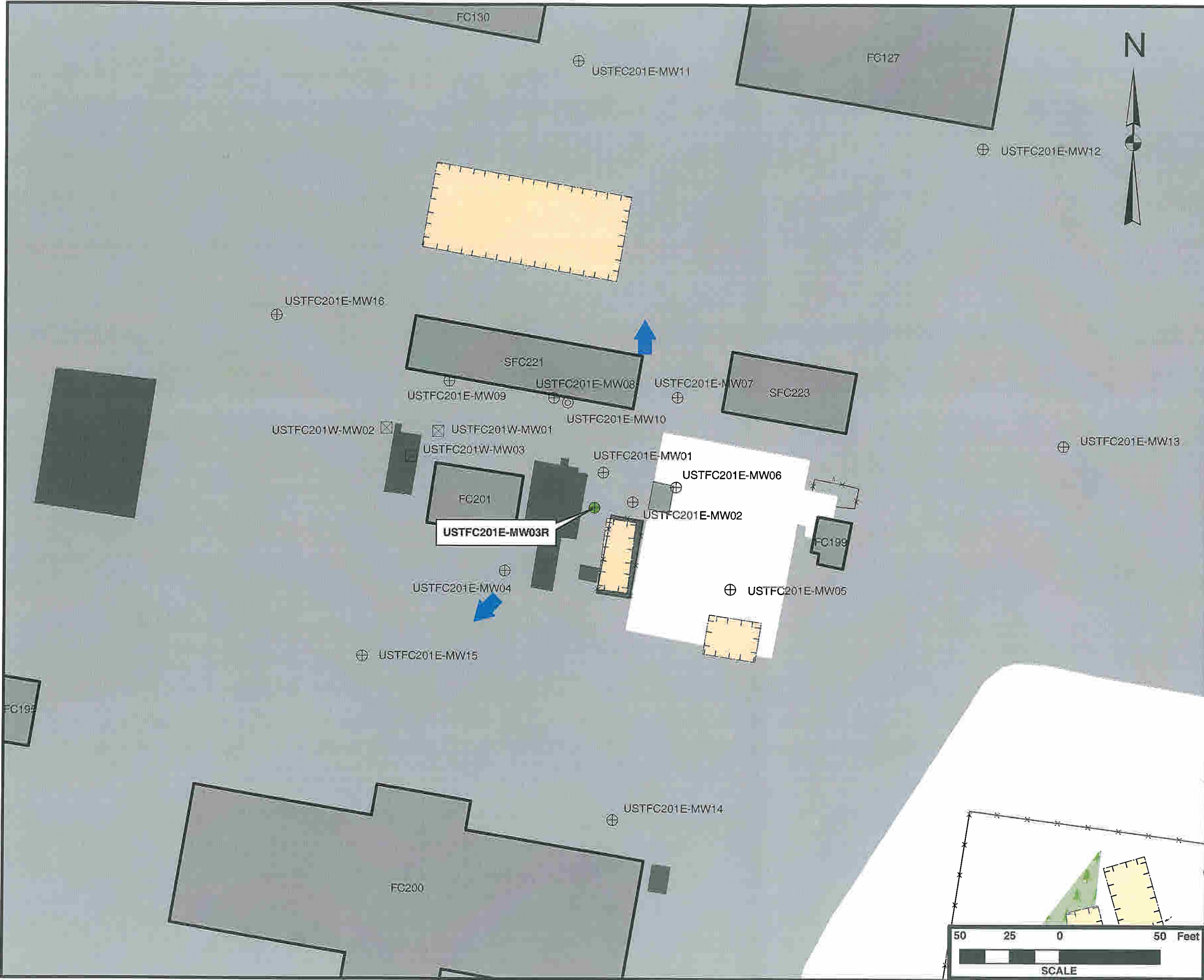


SITE FC-201E EPA METHOD 625
COLORIMETRY AND PLUME IN EXCESS
OF 2L - SECOND QUARTER 2006

FIGURE

6.3

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Analytical Results	Vegetation Cover
⊕ Type I	● 2L Non-Compliant	Forestland
⊕ Type II	● 2L Compliant	Scrubland
⊕ Type III	▨ EPA 6010B Plume	Wetland
⊕ Pumping Well	▨ Buildings and Structures	Airfield Pavement
⊕ Unknown Well Type	▨ Demolished Structures	HELIPAD
● Water Supply Wells	▨ Oil/Water Separators	RAMP
■ Above Ground Storage Tank	▨ Slabs	RUNWAY
■ Underground Storage Tank	▨ Roads	SHLDR_OVERRUN
— Railroad Tracks	▨ Driveways	TAXIWAY
⊗ FENCE	▨ Parking Lots	
⊗ GATE	▨ Surface Water Bodies	
— WALL	▨ Creeks and Streams	
	▨ Groundwater Flow Direction	

NOTES

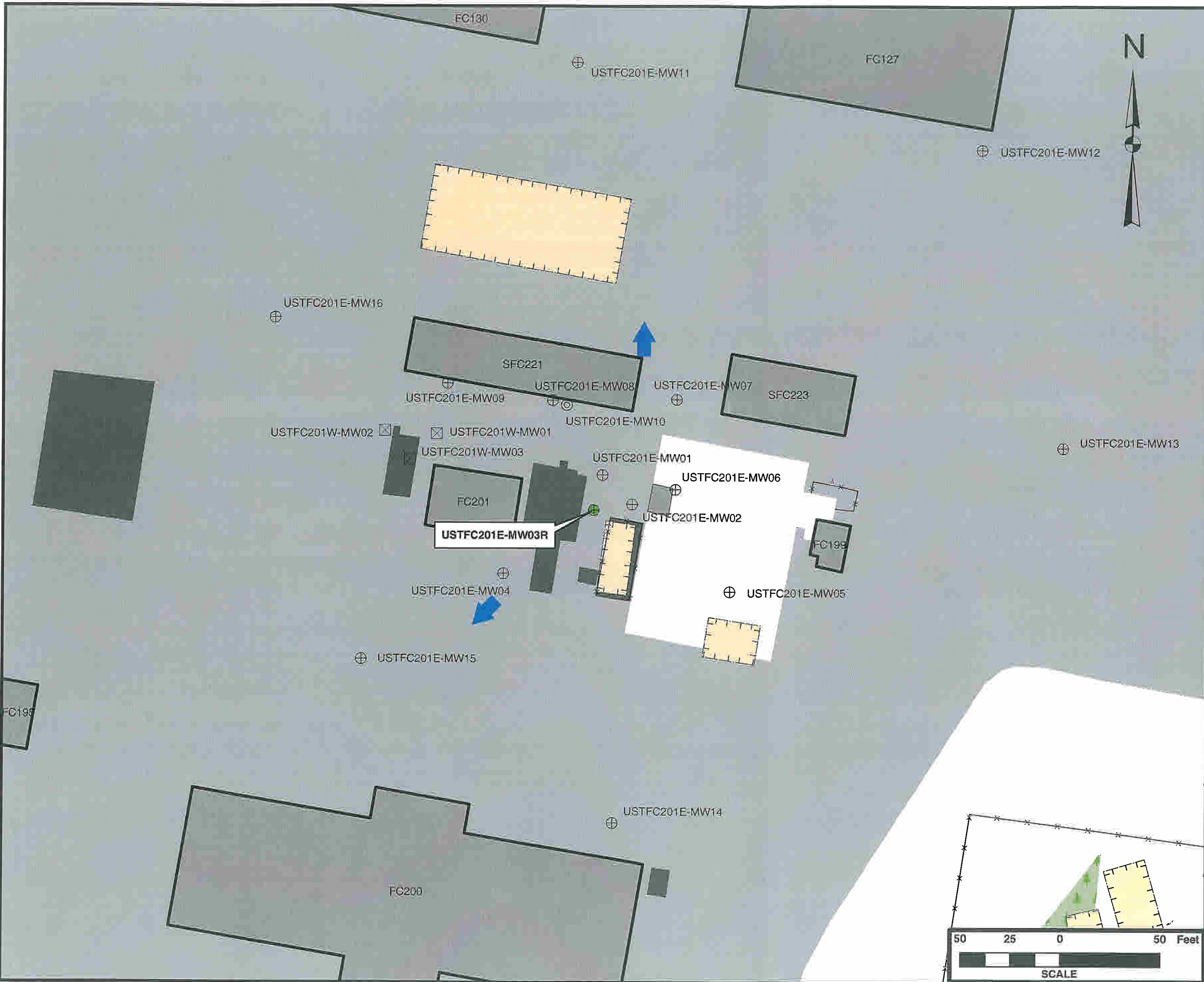
1. No EPA Method 6010B compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.



SITE FC-201E EPA METHOD 6010B
COLORIMETRY AND PLUME IN EXCESS
OF 2L - SECOND QUARTER 2006

FIGURE
6.4

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells	Analytical Results	Vegetation Cover
⊕ Type I	● 2L Non-Compliant	Forestland
⊕ Type II	● 2L Compliant	Scrubland
⊕ Type III	MADEP Plume	Wetland
⊕ Pumping Well	Buildings and Structures	Airfield Pavement
⊕ Unknown Well Type	Demolished Structures	HELIPAD
● Water Supply Wells	Oil/Water Separators	RAMP
■ Above Ground Storage Tank	Slabs	RUNWAY
■ Underground Storage Tank	Roads	SHLDR_OVERRUN
— Railroad Tracks	Driveways	TAXIWAY
— FENCE	Parking Lots	
— GATE	Surface Water Bodies	
— WALL	Creeks and Streams	
	Groundwater Flow Direction	

NOTES

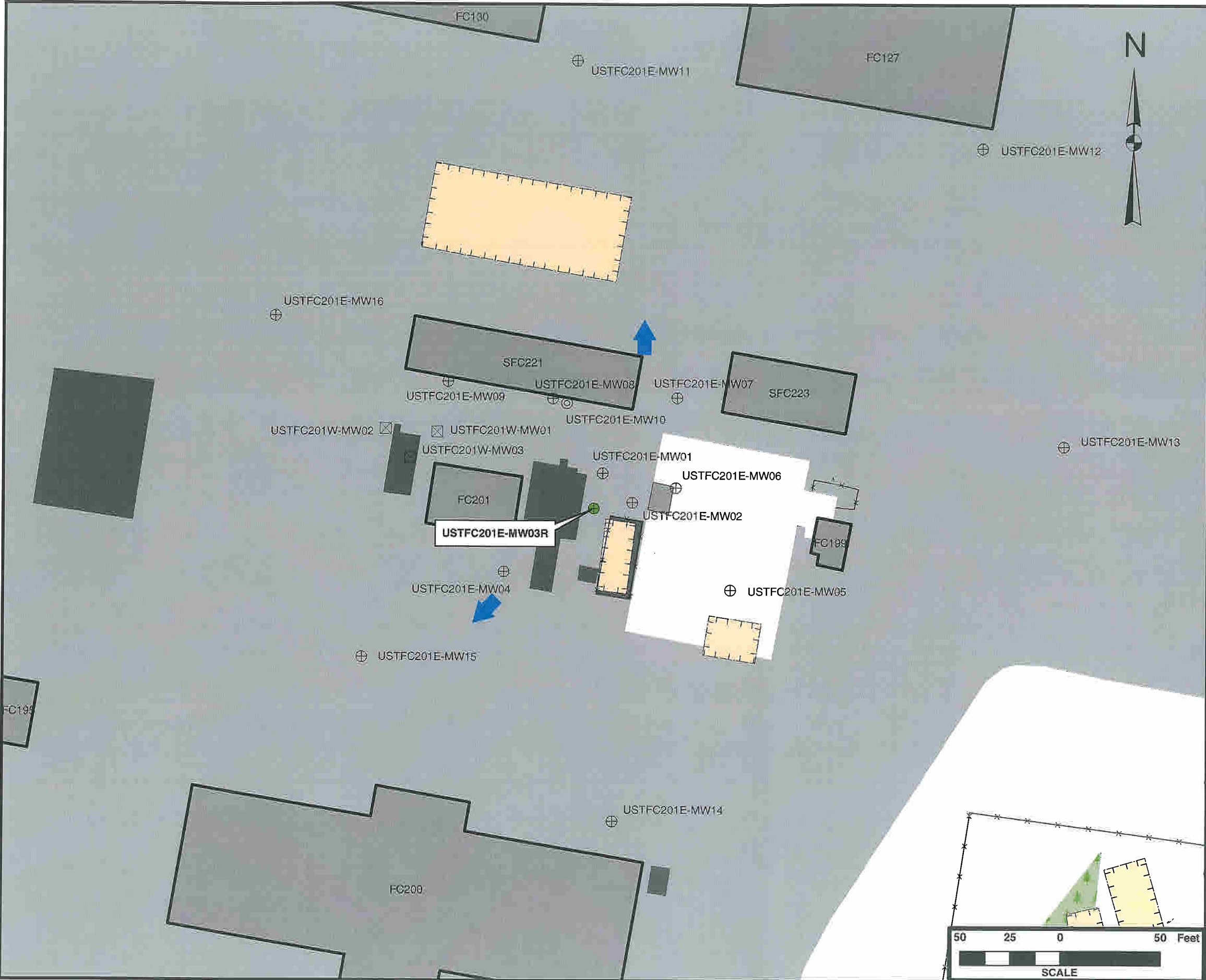
1. No MADEP VPH/EPH compounds were detected above the 2L GWQS for any wells sampled during this monitoring event.



SITE FC-201E MADEP VPH/EPH
COLORIMETRY AND PLUME IN EXCESS
OF 2L - SECOND QUARTER 2006

FIGURE
6.5

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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SECTION 7.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE HPFF

NCDENR INCIDENT NOs. 3671, 10615, 22788



7.0 EXECUTIVE SUMMARY SITE HPFF

7.1 Site Information

- 7.1.1 Site Location:** MCB Camp Lejeune
- 7.1.2 Incident Number(s):** 3671, 10615, and 22788
- 7.1.3 UTM Coordinates (WGS84) (Meters):** 286201.76 Easting, 3839136.22 Northing
- 7.1.4 Risk Classification:** Intermediate
- 7.1.5 Land Use Classification:** Industrial/Commercial
- 7.1.6 Source Type(s):** Various sized USTs and ASTs containing Gasoline, Diesel Fuel and Kerosene

7.2 Monitoring Event Information

- 7.2.1 Sampling Performed By:** Shaw
- 7.2.2 Date(s) of This Monitoring Event:** January and October 2006
- 7.2.3 Date(s) of Previous Monitoring Event:** August 2005
- 7.2.4 Reason(s) for This Monitoring Event:** Track migration and attenuation of free-phase product and dissolved-phase plume.
- 7.2.5 Site Monitoring Status at Time of This Event:** Semi-annual sampling of approximately 25 monitoring wells.

7.3 Groundwater Hydraulics

- 7.3.1 Hydraulic Conductivity:** 23 ft/day (1994 CSA by CATLIN)
- 7.3.2 Effective Porosity:** 0.25 (1994 CSA by CATLIN)
- 7.3.3 Hydraulic Gradient:** 0.00562 feet/feet (1994 CSA by CATLIN)
- 7.3.4 Average Linear Groundwater Flow Velocity:** 0.52 feet/day (1994 CSA by CATLIN)
- 7.3.5 Groundwater Flow Direction:** Towards the Southwest
- 7.3.6 Range of Measured Water Table Elevations:** 15.84 to 24.48 feet above MSL (10/2/06). See Tables 7.1A and 7.1B
- 7.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

7.4 Free Product Plume

- 7.4.1 Free Product Present?:** Yes
- 7.4.2 Free Product Thickness Measured:** See Tables 7.1A and 7.1B
- 7.4.3 Plume Size and Location:** See Figures 7.1A and 7.1B
- 7.4.4 Free Product Removed from Site This Period:** Unknown
- 7.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

7.5 Dissolved-Phase Plume

7.5.1 Plume Concentrations: See Tables 7.2A through 7.3B

7.5.2 Plume Size and Location: See Figures 7.2A through 7.3B

7.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. Below is a summary of compounds which were detected above the 2L GWQS from the January and/or October 2006 sampling events:

EPA Method 602

Benzene was the EPA Method 602 compound most commonly detected above the 2L GWQS. Benzene concentrations ranged from 3.70 ug/L up to 12,400 ug/L during the two 2006 sampling events. Ethylbenzene was detected at concentrations ranging from 0.86 ug/L to 2,850 ug/L. Concentrations of Toluene ranged from 0.69 ug/L to 26,100 ug/L during the 2006 monitoring events. Total Xylenes were detected at concentrations ranging from 1.20 ug/L to 13,100 ug/L. Concentrations of 1,2-Dichlorobenzene ranged from 0.58 ug/L to 600 ug/L during the 2006 monitoring events. MTBE was detected at concentrations ranging from 0.66 ug/L to 268 ug/L.

EPA Method 610

Eight different EPA Method 610 compounds were detected above the 2L GWQS during the 2006 sampling events. Naphthalene concentrations ranged from 1.00 ug/L up to 473 ug/L. Concentrations of 1-Methylnaphthalene ranged from 0.49 ug/L to 80 ug/L. 2-Methylnaphthalene was detected at concentrations ranging from 1.40 ug/L to 227 ug/L. Benzo(a)anthracene was revealed at concentrations ranging from 0.17 ug/L to 1.30 ug/L. Benzo(a)pyrene concentrations ranged from 0.09 ug/L to 0.63 ug/L during the 2006 sampling events. Benzo(b)fluoranthene was detected at concentrations ranging from 0.14 ug/L to 0.75 ug/L. Indeno(1,2,3-cd)pyrene concentrations ranged from 0.05 ug/L to 0.32 ug/L. Dibenzo(a,h)anthracene was revealed in only one sample above the 2L GWQS at a concentration of 0.07 ug/L.

7.6 Potential Receptors

7.6.1 Contaminated Water Supply Well(s)?: None

7.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

7.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

7.6.4 Surface Water Body Within 500 Feet?: No

7.6.5 Past Evidence of Vapors?: No

7.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

7.7 Remediation

7.7.1 Status: Ongoing

7.7.2 Type: AS/SVE, Free Product Recovery, AFVR, Bio-Pulsing and Natural Attenuation

7.7.3 Progress: Free product thickness and extent and the shallow contamination concentrations have been significantly reduced since system startup. Deep contamination concentrations have not been reduced at the same rate as the shallow contamination; however the recent implementation of bio-pulsing is expected to accelerate the remediation of the deeper contamination.

7.7.4 Construction Contractor: Shaw

7.7.5 Operating Contractor: Shaw

7.8 Observations and Comments

CATLIN recommends continued semi-annual sampling of select on-site monitoring wells to track the dissolved phase contamination.

TABLE 7.1A
SITE HPFF
FIELD MEASUREMENTS - FIRST QUARTER 2006

Date Measured: 1/23/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
IR78-GW22-2	T-III			8.00	0.00		
UST1115GT-MW01	T-I	28.66	-0.22	3.92	0.00	4.14	24.74
UST1115GT-MW07	T-I	26.44	-0.35	8.96	0.00	9.31	17.48
UST1115-MW01		25.77	-0.30	7.18	0.00	7.48	18.59
UST1115-MW02		28.14	-0.32	7.42	0.00	7.74	20.72
UST1115-MW04				4.80	0.00		
UST1115-MW09		23.41	1.82	5.38	0.00	3.56	18.03
UST1115-MW13		25.87	-0.32	8.53	0.00	8.85	17.34
UST1115-MW17				9.10	0.00		
UST1115-MW21	T-II	28.52	-0.42	8.25	0.00	8.67	20.27
UST1115-MW22	T-III			10.84	0.00		
UST1115-MW23	T-III	28.75	1.51	10.24	0.00	8.73	18.51
UST1115-MW24	T-III	26.05	-0.29	9.60	0.00	9.89	16.45
UST1115-MW25	T-III	28.71	-0.27	9.05	0.00	9.32	19.66
USTHPFFC-MW01	T-II	28.46	-0.54	4.80	0.00	5.34	23.66
USTHPFFC-MW05	T-II	27.33	-0.47	6.40	0.00	6.87	20.93
USTHPFFC-MW07	T-III	28.28	-0.52	8.80	0.00	9.32	19.48
USTHPFFC-MW08	T-III	34.90	2.00	15.00	0.00	13.00	19.90
USTHPFFC-MW09	T-III	27.13	-0.03	8.00	0.00	8.03	19.13
USTHPFFC-MW11	T-III	32.28	-0.02	13.50	0.00	13.52	18.78
USTHPFFC-MW15	T-II	27.69	-0.01	5.80	0.35	5.81	21.89
USTHPFFC-MW19	T-II	26.43	0.03	4.75	0.00	4.72	21.68
USTHPFFC-MW20	T-II	28.74	0.04	6.50	0.00	6.46	22.24
USTHPFFC-MW23	T-II	26.44	0.04	5.50	0.00	5.46	20.94
USTHPFFC-MW25	T-II	31.41	0.01	10.70	0.00	10.69	20.71
USTHPFFC-MW28	T-II	27.48	-0.02	4.80	0.00	4.82	22.68
USTHPFFC-MW72	T-I	27.84	-0.56	13.80	7.78	14.36	14.04
USTHPFF-MW01	T-II			8.43	0.00		
USTHPFF-MW02	T-II			10.07	0.00		
USTHPFF-MW11	T-II			5.30	0.00		
USTHPFF-MW12	T-II			5.94	0.00		
USTHPFF-MW15	T-II			7.69	0.00		

- Notes: 1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
2. TOC = Top of well casing elevation.
3. STICK UP = Height of well casing above land surface in feet.
4. DTW = Depth to water (in feet) from top of well casing.
5. Product thickness is measured in feet.
6. DTW BLS = Depth to water below land surface in feet.
7. GW Elevation = Ground water elevation (not adjusted for free product)
8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

Date Measured: 1/23/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
USTHPFF-MW18	T-II			10.68	0.00		

- Notes:
1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
 2. TOC = Top of well casing elevation.
 3. STICK UP = Height of well casing above land surface in feet.
 4. DTW = Depth to water (in feet) from top of well casing.
 5. Product thickness is measured in feet.
 6. DTW BLS = Depth to water below land surface in feet.
 7. GW Elevation = Ground water elevation (not adjusted for free product)
 8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
 9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
 10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

TABLE 7.1B
SITE HPFF
FIELD MEASUREMENTS - FOURTH QUARTER 2006

Date Measured: 10/2/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
IR78-GW19		29.07	2.57	6.18	0.00	3.61	22.89
IR78-GW22-2	T-III			7.93	0.00		
UST1115GT-MW01	T-I	28.66	-0.22	4.18	0.00	4.40	24.48
UST1115GT-MW09	T-I	24.33	-0.39	5.98	0.00	6.37	18.35
UST1115-MW01		25.77	-0.30	8.60	0.00	8.90	17.17
UST1115-MW02		28.14	-0.32	8.23	0.00	8.55	19.91
UST1115-MW04				5.37	0.00		
UST1115-MW05		28.02	-0.31	6.43	0.00	6.74	21.59
UST1115-MW09		23.41	1.82	5.43	0.00	3.61	17.98
UST1115-MW11		32.03	1.38	8.55	0.00	7.17	23.48
UST1115-MW12		28.75	-0.26	4.98	0.00	5.24	23.77
UST1115-MW13		25.87	-0.32	8.85	0.00	9.17	17.02
UST1115-MW14		27.57	1.43	11.00	0.00	9.57	16.57
UST1115-MW15		26.39	-0.38	8.17	0.00	8.55	18.22
UST1115-MW17				9.92	0.00		
UST1115-MW21	T-II	28.52	-0.42	9.05	0.00	9.47	19.47
UST1115-MW22	T-III			11.83	0.00		
UST1115-MW23	T-III	28.75	1.51	11.83	0.00	10.32	16.92
UST1115-MW24	T-III	26.05	-0.29	10.21	0.00	10.50	15.84
UST1115-MW25	T-III	28.71	-0.27	9.70	0.00	9.97	19.01
USTHPFFC-MW01	T-II	28.46	-0.54	8.93	0.00	9.47	19.53
USTHPFFC-MW03	T-II	31.21	2.01	10.06	0.00	8.05	21.15
USTHPFFC-MW05	T-II	27.33	-0.47	7.13	0.00	7.60	20.20
USTHPFFC-MW07	T-III	28.28	-0.52	9.78	0.00	10.30	18.50
USTHPFFC-MW08	T-III	34.90	2.00	15.78	0.00	13.78	19.12
USTHPFFC-MW09	T-III	27.13	-0.03	8.48	0.00	8.51	18.65
USTHPFFC-MW10	T-III	32.50	-0.50	14.43	0.00	14.93	18.07
USTHPFFC-MW12	T-III	27.12	0.02	5.26	0.00	5.24	21.86
USTHPFFC-MW15	T-II	27.69	-0.01	6.28	0.45	6.29	21.41
USTHPFFC-MW19	T-II	26.43	0.03	5.31	0.00	5.28	21.12
USTHPFFC-MW20	T-II	28.74	0.04	6.69	0.00	6.65	22.05
USTHPFFC-MW23	T-II	26.44	0.04	5.90	0.00	5.86	20.54

- Notes: 1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
2. TOC = Top of well casing elevation.
3. STICK UP = Height of well casing above land surface in feet.
4. DTW = Depth to water (in feet) from top of well casing.
5. Product thickness is measured in feet.
6. DTW BLS = Depth to water below land surface in feet.
7. GW Elevation = Ground water elevation (not adjusted for free product)
8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

Date Measured: 10/4/2006

<u>Well No.</u>	<u>Type</u>	<u>TOC</u>	<u>Stick up</u>	<u>DTW</u>	<u>Product Thickness</u>	<u>DTW BLS</u>	<u>GW Elevation</u>
USTHPFFC-MW24	T-II	31.37	-0.03	11.11	0.00	11.14	20.26
USTHPFFC-MW25	T-II	31.41	0.01	10.83	0.00	10.82	20.58
USTHPFFC-MW28	T-II	27.48	-0.02	5.74	0.00	5.76	21.74
USTHPFFC-MW30	T-II	26.80	0.00	4.83	0.00	4.83	21.97
USTHPFFC-MW42	T-II	27.71	0.01	6.42	0.00	6.41	21.29
USTHPFFC-MW72	T-I	27.84	-0.56	7.60	0.07	8.16	20.24
USTHPFF-MW01	T-II			8.95	0.00		
USTHPFF-MW02	T-II			10.44	0.00		
USTHPFF-MW06	T-II			8.77	0.00		
USTHPFF-MW11	T-II			7.16	0.00		
USTHPFF-MW12	T-II			5.61	0.00		
USTHPFF-MW15	T-II			7.81	0.00		
USTHPFF-MW18	T-II			10.92	0.00		
USTHPFF-MW19	T-II			11.97	0.00		

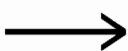
- Notes:
1. T-II = Type II monitoring well
T-III = Type III monitoring well
RW = Recovery well
 2. TOC = Top of well casing elevation.
 3. STICK UP = Height of well casing above land surface in feet.
 4. DTW = Depth to water (in feet) from top of well casing.
 5. Product thickness is measured in feet.
 6. DTW BLS = Depth to water below land surface in feet.
 7. GW Elevation = Ground water elevation (not adjusted for free product)
 8. A zero ("0.00") in the product thickness column indicates no measureable thickness.
 9. Top of casing elevations are measured in feet relative to Mean Sea Level (NAD83).
 10. Stick up values were not available for wells with no values in the STICK UP and DTW BLS columns.

TABLE 7.2A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 602

Contaminant of Concern 													
<u>Well ID</u>	<u>Date</u>	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
IR78-GW22-2	10/2/2006	BQL	BQL	BQL	BQL	86.30	BQL	BQL	6.30	BQL	BQL	18.10	12.90
UST1115GT-MW01	1/23/2006	BQL	BQL	BQL	BQL	1100.00	BQL	BQL	110.00	5.00	BQL	19.00	86.30
UST1115GT-MW01	10/3/2006	BQL	BQL	BQL	BQL	2720.00	BQL	BQL	478.00	BQL	BQL	480.00	189.00
UST1115GT-MW01D	1/23/2006	BQL	BQL	BQL	BQL	1120.00	BQL	BQL	99.20	4.80	BQL	18.60	84.40
UST1115GT-MW07	1/25/2006	BQL	BQL	BQL	BQL	421.00	BQL	BQL	1.30	BQL	BQL	2.60	BQL
UST1115GT-MW07	10/9/2006	BQL	BQL	BQL	BQL	220.00	BQL	BQL	2.10	BQL	BQL	BQL	BQL
UST1115GT-MW09	1/23/2006	BQL	BQL	BQL	BQL	154.00	BQL	BQL	4.70	BQL	BQL	22.30	13.50
UST1115GT-MW09	10/2/2006	BQL	BQL	BQL	BQL	9.70	BQL	BQL	1.20	BQL	BQL	2.20	1.80
UST1115-MW01	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW01	10/3/2006	BQL	BQL	BQL	BQL	163.00	BQL	BQL	30.30	BQL	BQL	43.10	18.80

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 602

Contaminant of Concern 														
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)	
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530	
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500	
UST1115-MW02	1/20/2006	BQL	BQL	BQL	BQL	14.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL	
UST1115-MW02	10/2/2006	BQL	BQL	BQL	BQL	28.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL	
UST1115-MW04	1/20/2006	BQL	BQL	BQL	BQL	9.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	
UST1115-MW04	10/2/2006	BQL	BQL	BQL	BQL	56.60	BQL	BQL	BQL	BQL	BQL	1.10	BQL	
UST1115-MW13	1/23/2006	BQL	BQL	BQL	BQL	263.00	BQL	BQL	32.00	BQL	BQL	13.50	23.50	
UST1115-MW13	10/3/2006	BQL	BQL	BQL	BQL	278.00	BQL	BQL	26.60	BQL	BQL	25.70	32.00	
UST1115-MW17	1/20/2006	BQL	BQL	BQL	BQL	39.30	BQL	BQL	0.86	BQL	BQL	1.10	BQL	
UST1115-MW17	10/2/2006	BQL	BQL	BQL	BQL	168.00	BQL	BQL	4.20	BQL	BQL	2.40	4.00	
UST1115-MW18	1/25/2006	0.81	BQL	BQL	BQL	BQL	BQL	BQL	BQL	29.40	BQL	BQL	BQL	
UST1115-MW21	1/20/2006	BQL	BQL	BQL	BQL	175.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	
UST1115-MW21	10/2/2006	BQL	BQL	BQL	BQL	197.00	BQL	BQL	BQL	BQL	BQL	1.10	BQL	

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 602

Contaminant of Concern 													
<u>Well ID</u>	<u>Date</u>	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
UST1115-MW22	1/20/2006	0.58	BQL	BQL	0.88	1830.00	BQL	BQL	6.00	BQL	BQL	16.40	14.40
UST1115-MW22	10/2/2006	BQL	BQL	BQL	BQL	3880.00	BQL	BQL	BQL	BQL	BQL	35.70	32.60
UST1115-MW23	1/23/2006	BQL	BQL	BQL	BQL	7230.00	BQL	BQL	124.00	BQL	BQL	441.00	318.00
UST1115-MW23	10/2/2006	BQL	BQL	BQL	BQL	1910.00	BQL	BQL	49.60	BQL	BQL	198.00	96.40
UST1115-MW24	1/20/2006	BQL	BQL	BQL	BQL	1750.00	BQL	BQL	BQL	6.50	BQL	0.69	BQL
UST1115-MW24	10/2/2006	BQL	BQL	BQL	BQL	2250.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW25	1/23/2006	BQL	BQL	BQL	BQL	5000.00	BQL	BQL	61.70	BQL	BQL	225.00	256.00
UST1115-MW25	10/3/2006	BQL	BQL	BQL	BQL	5160.00	BQL	BQL	54.60	BQL	BQL	285.00	174.00
USTHPFFC-MW01	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	10/4/2006	BQL	BQL	BQL	BQL	26.30	BQL	BQL	4.80	BQL	BQL	6.60	4.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 602

Contaminant of Concern →													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
USTHPFFC-MW05	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.10	BQL	BQL	BQL
USTHPFFC-MW05	10/6/2006	BQL	BQL	BQL	BQL	156.00	BQL	BQL	50.40	4.30	BQL	485.00	217.00
USTHPFFC-MW07	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW07	10/4/2006	BQL	BQL	BQL	BQL	4.70	BQL	BQL	2.10	0.66	BQL	1.80	1.20
USTHPFFC-MW08	1/24/2006	BQL	BQL	BQL	BQL	7480.00	BQL	BQL	331.00	BQL	BQL	327.00	617.00
USTHPFFC-MW08	10/6/2006	BQL	BQL	BQL	BQL	4940.00	BQL	BQL	303.00	BQL	BQL	765.00	696.00
USTHPFFC-MW09	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	62.00	BQL	BQL	BQL
USTHPFFC-MW09	10/6/2006	BQL	BQL	BQL	BQL	323.00	BQL	BQL	101.00	56.20	BQL	849.00	416.00
USTHPFFC-MW11	1/24/2006	BQL	BQL	BQL	BQL	96.70	BQL	BQL	33.50	BQL	BQL	471.00	133.00
USTHPFFC-MW19	1/24/2006	346.00	BQL	BQL	BQL	12100.00	BQL	BQL	711.00	BQL	BQL	9910.00	3920.00
USTHPFFC-MW19	10/6/2006	BQL	BQL	BQL	BQL	1110.00	BQL	BQL	92.80	BQL	BQL	975.00	615.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 602

Contaminant of Concern 													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
USTHPFFC-MW20	1/24/2006	BQL	BQL	BQL	BQL	4050.00	BQL	BQL	698.00	BQL	BQL	10600.00	3180.00
USTHPFFC-MW20	10/4/2006	22.30	BQL	BQL	BQL	453.00	BQL	BQL	265.00	BQL	BQL	130.00	712.00
USTHPFF-MW01	1/23/2006	BQL	BQL	BQL	BQL	2650.00	BQL	BQL	2650.00	29.80	BQL	20300.00	13100.00
USTHPFF-MW01	10/6/2006	600.00	BQL	BQL	BQL	2790.00	BQL	BQL	1990.00	BQL	BQL	15000.00	9330.00
USTHPFF-MW10R	1/24/2006	158.00	BQL	BQL	BQL	1770.00	BQL	BQL	631.00	142.00	BQL	2190.00	2940.00
USTHPFF-MW10R	10/4/2006	109.00	BQL	BQL	BQL	1280.00	BQL	BQL	650.00	BQL	BQL	1990.00	2900.00
USTHPFF-MW11	1/25/2006	BQL	BQL	BQL	BQL	53.60	BQL	BQL	2.20	172.00	BQL	32.60	288.00
USTHPFF-MW11	10/9/2006	BQL	BQL	BQL	BQL	3.70	BQL	BQL	BQL	93.30	BQL	0.95	36.00
USTHPFF-MW17	10/6/2006	BQL	BQL	BQL	BQL	4480.00	BQL	BQL	2240.00	268.00	BQL	16400.00	8280.00
USTHPFF-MW17A	1/24/2006	BQL	BQL	BQL	BQL	5630.00	BQL	BQL	2250.00	BQL	BQL	22800.00	9200.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 602

Contaminant of Concern 													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
USTHPFF-MW18	1/23/2006	BQL	BQL	BQL	BQL	12400.00	22.40	BQL	1220.00	BQL	BQL	26100.00	8650.00
USTHPFF-MW18	10/6/2006	578.00	BQL	BQL	BQL	10300.00	BQL	BQL	1090.00	BQL	BQL	20400.00	6840.00

- Notes: 1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitation Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern →													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
IR78-GW22-2	10/2/2006	BQL	BQL	BQL	BQL	98.30	BQL	BQL	6.30	BQL	BQL	18.10	12.90
UST1115GT-MW01	8/17/2005	BQL	5.10	2.60	BQL	268.00	BQL	BQL	6.80	BQL	BQL	2.70	BQL
UST1115GT-MW01	1/23/2006	BQL	BQL	BQL	BQL	1100.00	BQL	BQL	110.00	5.00	BQL	19.00	86.30
UST1115GT-MW01	10/3/2006	BQL	BQL	BQL	BQL	2720.00	BQL	BQL	478.00	BQL	BQL	480.00	189.00
UST1115GT-MW01D	1/23/2006	BQL	BQL	BQL	BQL	1120.00	BQL	BQL	99.20	4.80	BQL	18.60	84.40
UST1115GT-MW07	8/17/2005	BQL	2.90	BQL	BQL	22.70	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW07	1/25/2006	BQL	BQL	BQL	BQL	421.00	BQL	BQL	1.30	BQL	BQL	2.60	BQL
UST1115GT-MW07	10/9/2006	BQL	BQL	BQL	BQL	220.00	BQL	BQL	2.10	BQL	BQL	BQL	BQL
UST1115GT-MW09	8/17/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW09	1/23/2006	BQL	BQL	BQL	BQL	154.00	BQL	BQL	4.70	BQL	BQL	22.30	13.50
UST1115GT-MW09	10/2/2006	BQL	BQL	BQL	BQL	9.70	BQL	BQL	1.20	BQL	BQL	2.20	1.80

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern →													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
UST1115-MW01	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.92	BQL	BQL
UST1115-MW01	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW01	10/3/2006	BQL	BQL	BQL	BQL	163.00	BQL	BQL	30.30	BQL	BQL	43.10	18.80
UST1115-MW02	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW02	1/20/2006	BQL	BQL	BQL	BQL	14.90	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW02	10/2/2006	BQL	BQL	BQL	BQL	28.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	8/18/2005	BQL	BQL	BQL	BQL	0.63	BQL	BQL	BQL	BQL	BQL	1.60	BQL
UST1115-MW04	1/20/2006	BQL	BQL	BQL	BQL	9.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	10/2/2006	BQL	BQL	BQL	BQL	56.60	BQL	BQL	BQL	BQL	BQL	1.10	BQL
UST1115-MW13	1/23/2006	BQL	BQL	BQL	BQL	263.00	BQL	BQL	32.00	BQL	BQL	13.50	23.50
UST1115-MW13	10/3/2006	BQL	BQL	BQL	BQL	278.00	BQL	BQL	26.60	BQL	BQL	25.70	32.00

- Notes: 1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitation Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern →													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
UST1115-MW17	8/18/2005	BQL	57.70	1.80	BQL	9.50	BQL	0.52	BQL	BQL	BQL	BQL	2.40
UST1115-MW17	1/20/2006	BQL	BQL	BQL	BQL	39.30	BQL	BQL	0.86	BQL	BQL	1.10	BQL
UST1115-MW17	10/2/2006	BQL	BQL	BQL	BQL	168.00	BQL	BQL	4.20	BQL	BQL	2.40	4.00
UST1115-MW18	1/25/2006	0.81	BQL	BQL	BQL	BQL	BQL	BQL	BQL	29.40	BQL	BQL	BQL
UST1115-MW21	8/18/2005	BQL	9.00	BQL	BQL	282.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW21	1/20/2006	BQL	BQL	BQL	BQL	175.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW21	10/2/2006	BQL	BQL	BQL	BQL	197.00	BQL	BQL	BQL	BQL	BQL	1.10	BQL
UST1115-MW22	8/18/2005	BQL	131.00	BQL	BQL	3380.00	BQL	BQL	BQL	BQL	BQL	32.40	BQL
UST1115-MW22	1/20/2006	0.58	BQL	BQL	0.88	1830.00	BQL	BQL	6.00	BQL	BQL	16.40	14.40
UST1115-MW22	10/2/2006	BQL	BQL	BQL	BQL	3680.00	BQL	BQL	BQL	BQL	BQL	35.70	32.60

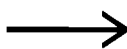
- Notes: 1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitation Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern →													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
UST1115-MW23	1/23/2006	BQL	BQL	BQL	BQL	7230.00	BQL	BQL	124.00	BQL	BQL	441.00	318.00
UST1115-MW23	10/2/2006	BQL	BQL	BQL	BQL	1910.00	BQL	BQL	49.60	BQL	BQL	198.00	96.40
UST1115-MW24	8/18/2005	BQL	44.30	BQL	BQL	3120.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW24	1/20/2006	BQL	BQL	BQL	BQL	1750.00	BQL	BQL	BQL	6.50	BQL	0.69	BQL
UST1115-MW24	10/2/2006	BQL	BQL	BQL	BQL	2250.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW25	1/23/2006	BQL	BQL	BQL	BQL	5000.00	BQL	BQL	61.70	BQL	BQL	225.00	256.00
UST1115-MW25	10/3/2006	BQL	BQL	BQL	BQL	5160.00	BQL	BQL	54.60	BQL	BQL	285.00	174.00
USTHPFFC-MW01	8/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	8/31/2005	BQL	BQL	BQL	BQL	4140.00	BQL	BQL	3850.00	BQL	BQL	24400.00	17200.00
USTHPFFC-MW01	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	10/4/2006	BQL	BQL	BQL	BQL	26.30	BQL	BQL	4.80	BQL	BQL	6.60	4.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern 													
<u>Well ID</u>	<u>Date</u>	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
USTHPFFC-MW05	8/22/2005	BQL	1.20	BQL	BQL	BQL	BQL	BQL	BQL	0.81	BQL	BQL	BQL
USTHPFFC-MW05	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.10	BQL	BQL	BQL
USTHPFFC-MW05	10/6/2006	BQL	BQL	BQL	BQL	156.00	BQL	BQL	50.40	4.30	BQL	485.00	217.00
USTHPFFC-MW07	8/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW07	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW07	10/4/2006	BQL	BQL	BQL	BQL	4.70	BQL	BQL	2.10	0.66	BQL	1.80	1.20
USTHPFFC-MW08	8/31/2005	BQL	BQL	BQL	BQL	7710.00	BQL	BQL	349.00	BQL	BQL	145.00	801.00
USTHPFFC-MW08	1/24/2006	BQL	BQL	BQL	BQL	7480.00	BQL	BQL	331.00	BQL	BQL	327.00	617.00
USTHPFFC-MW08	10/6/2006	BQL	BQL	BQL	BQL	4940.00	BQL	BQL	303.00	BQL	BQL	765.00	695.00
USTHPFFC-MW09	8/22/2005	BQL	293.00	BQL	BQL	BQL	BQL	BQL	BQL	55.60	BQL	BQL	BQL
USTHPFFC-MW09	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	62.00	BQL	BQL	BQL
USTHPFFC-MW09	10/6/2006	BQL	BQL	BQL	BQL	323.00	BQL	BQL	101.00	56.20	BQL	849.00	416.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern →													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethane	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
USTHPFFC-MW10	8/27/2005	BQL	9.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.10
USTHPFFC-MW11	8/20/2005	BQL	74.60	BQL	BQL	44.70	BQL	BQL	BQL	4.10	BQL	0.83	2.90
USTHPFFC-MW11	8/27/2005	BQL	1.30	BQL	BQL	1.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW11	1/24/2006	BQL	BQL	BQL	BQL	96.70	BQL	BQL	33.50	BQL	BQL	471.00	133.00
USTHPFFC-MW17	8/31/2005	BQL	221.00	BQL	BQL	7380.00	BQL	BQL	3270.00	104.00	BQL	26200.00	12300.00
USTHPFFC-MW19	1/24/2006	346.00	BQL	BQL	BQL	12100.00	BQL	BQL	711.00	BQL	BQL	9910.00	3920.00
USTHPFFC-MW19	10/6/2006	BQL	BQL	BQL	BQL	1110.00	BQL	BQL	92.80	BQL	BQL	975.00	615.00
USTHPFFC-MW20	8/31/2005	BQL	BQL	BQL	BQL	1030.00	BQL	BQL	537.00	BQL	BQL	498.00	1810.00
USTHPFFC-MW20	1/24/2006	BQL	BQL	BQL	BQL	4060.00	BQL	BQL	698.00	BQL	BQL	10600.00	3180.00
USTHPFFC-MW20	10/4/2006	22.30	BQL	BQL	BQL	453.00	BQL	BQL	265.00	BQL	BQL	130.00	712.00

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.2B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 602

Contaminant of Concern 													
Well ID	Date	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Ethylbenzene	Methyl Tert Butyl Ether	Tetrachloroethene	Toluene	Xylenes (total)
2L GWQS		24	0.38	0.51	170	1	50	70	550	200	0.7	1000	530
GCL		72500	380	510	61500	5000	0	70000	550000	200000	700	257500	87500
USTHPFF-MW01	1/23/2006	BQL	BQL	BQL	BQL	2860.00	BQL	BQL	2850.00	29.80	BQL	20300.00	13100.00
USTHPFF-MW01	10/6/2006	600.00	BQL	BQL	BQL	2790.00	BQL	BQL	1980.00	BQL	BQL	15000.00	9330.00
USTHPFF-MW10R	1/24/2006	158.00	BQL	BQL	BQL	1770.00	BQL	BQL	631.00	142.00	BQL	2190.00	2940.00
USTHPFF-MW10R	10/4/2006	109.00	BQL	BQL	BQL	1280.00	BQL	BQL	650.00	BQL	BQL	1990.00	2900.00
USTHPFF-MW11	1/25/2006	BQL	BQL	BQL	BQL	53.60	BQL	BQL	2.20	172.00	BQL	32.60	288.00
USTHPFF-MW11	10/9/2006	BQL	BQL	BQL	BQL	3.70	BQL	BQL	BQL	93.30	BQL	0.95	36.00
USTHPFF-MW17	10/6/2006	BQL	BQL	BQL	BQL	4480.00	BQL	BQL	2240.00	268.00	BQL	16400.00	8280.00
USTHPFF-MW17A	1/24/2006	BQL	BQL	BQL	BQL	5630.00	BQL	BQL	2260.00	BQL	BQL	22800.00	9200.00
USTHPFF-MW18	1/23/2006	BQL	BQL	BQL	BQL	12400.00	22.40	BQL	1220.00	BQL	BQL	26100.00	8650.00
USTHPFF-MW18	10/6/2006	578.00	BQL	BQL	BQL	10300.00	BQL	BQL	1090.00	BQL	BQL	20400.00	6840.00

- Notes:
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 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
IR78-GW22-2	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW01	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.20	BQL	BQL
UST1115GT-MW01	10/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.70	BQL	BQL
UST1115GT-MW01D	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.60	BQL	BQL
UST1115GT-MW07	1/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW07	10/9/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW09	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW09	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW01	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW01	10/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.10	BQL	BQL

- Notes:
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 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
UST1115-MW02	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW02	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW13	1/23/2006	10.10	16.50	7.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.40	BQL	58.70	BQL	BQL
UST1115-MW13	10/3/2006	11.50	18.30	7.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.40	BQL	68.10	BQL	BQL
UST1115-MW17	1/20/2006	8.70	14.80	14.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	7.90	BQL	3.10	BQL	BQL
UST1115-MW17	10/2/2006	8.30	11.60	12.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6.40	BQL	2.40	BQL	BQL
UST1115-MW18	1/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW21	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.10	BQL	BQL
UST1115-MW21	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.80	BQL	BQL

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4. BQL = Below Quantitation Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 610

Contaminant of Concern →																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
UST1115-MW22	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.90	BQL	BQL
UST1115-MW22	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.10	BQL	BQL
UST1115-MW23	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.80	BQL	BQL
UST1115-MW23	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.00	BQL	BQL
UST1115-MW24	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW24	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW25	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW25	10/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	10/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

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 3. All units are in ug/L (Micrograms per Liter)
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 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 610

Contaminant of Concern 		1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Well ID	Date																
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
USTHPFFC-MW05	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW05	10/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10.00	BQL	BQL
USTHPFFC-MW07	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW07	10/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW08	1/24/2006	11.70	19.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	87.70	BQL	BQL
USTHPFFC-MW08	10/6/2006	12.60	20.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	96.70	BQL	BQL
USTHPFFC-MW09	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW09	10/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	17.40	BQL	BQL
USTHPFFC-MW11	1/24/2006	0.49	1.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.90	BQL	BQL
USTHPFFC-MW19	1/24/2006	26.60	56.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	155.00	BQL	BQL

- Notes:
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 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS GCL		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
USTHPFFC-MW20	1/24/2006	12.60	36.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	143.00	BQL	BQL
USTHPFFC-MW20	10/4/2006	8.30	26.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	53.80	BQL	BQL
USTHPFF-MW01	1/23/2006	60.50	107.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	464.00	BQL	BQL
USTHPFF-MW01	10/6/2006	57.80	203.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	364.00	BQL	BQL
USTHPFF-MW10R	1/24/2006	42.30	124.00	BQL	1.30	0.63	0.75	0.33	0.38	1.60	0.07	6.20	BQL	0.32	99.60	4.90	4.20
USTHPFF-MW10R	10/4/2006	52.70	170.00	BQL	0.64	0.32	0.22	0.15	0.13	BQL	BQL	4.40	BQL	0.17	132.00	BQL	2.40
USTHPFF-MW11	1/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFF-MW11	10/9/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFF-MW17	10/6/2006	80.00	227.00	BQL	0.42	0.23	0.21	0.09	0.09	BQL	BQL	BQL	BQL	0.09	372.00	BQL	BQL
USTHPFF-MW17A	1/24/2006	53.80	145.00	BQL	0.17	0.09	0.14	BQL	BQL	BQL	BQL	BQL	BQL	0.05	302.00	BQL	0.81

- Notes:
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 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3A
SITE HPFF
GROUNDWATER LABORATORY ANALYTICAL RESULTS - JANUARY TO DECEMBER 2006
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
USTHPFF-MW18	1/23/2006	40.80	117.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	473.00	BQL	BQL
USTHPFF-MW18	10/6/2006	50.80	202.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	466.00	BQL	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
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 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
IR78-GW22-2	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW01	8/17/2005	1.00	5.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6.50	BQL	BQL
UST1115GT-MW01	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.20	BQL	BQL
UST1115GT-MW01	10/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.70	BQL	BQL
UST1115GT-MW01D	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.60	BQL	BQL
UST1115GT-MW07	8/17/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW07	1/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW07	10/9/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW09	8/17/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW09	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115GT-MW09	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

- Notes:
1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
 2. GCL = Gross Contamination Levels for ground water as defined in "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001
 3. All units are in ug/L (Micrograms per Liter)
 4. BQL = Below Quantitation Limits
 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
UST1115-MW01	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW01	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW01	10/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.10	BQL	BQL
UST1115-MW02	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW02	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW02	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW04	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW13	1/23/2006	10.10	16.50	7.10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.40	BQL	58.70	BQL	BQL
UST1115-MW13	10/3/2006	11.50	18.30	7.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.40	BQL	68.10	BQL	BQL

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3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitation Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
UST1115-MW17	8/18/2005	10.40	16.40	16.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	8.60	BQL	4.40	BQL	BQL
UST1115-MW17	1/20/2006	8.70	14.80	14.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	7.90	BQL	3.10	BQL	BQL
UST1115-MW17	10/2/2006	8.30	11.60	12.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6.40	BQL	2.40	BQL	BQL
UST1115-MW18	1/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW21	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.50	BQL	BQL
UST1115-MW21	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.10	BQL	BQL
UST1115-MW21	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.80	BQL	BQL
UST1115-MW22	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.80	BQL	BQL
UST1115-MW22	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.90	BQL	BQL
UST1115-MW22	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.10	BQL	BQL

- Notes: 1. 2L GWQS = North Carolina groundwater quality standard 15A NCAC 2L .0202
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3. All units are in ug/L (Micrograms per Liter)
4. BQL = Below Quantitation Limits
5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
6. A zero in the GCL row indicates a GCL has not been established
7. Shaded concentrations indicate exceedance of the 2L GWQS
8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

Contaminant of Concern →																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
UST1115-MW23	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.80	BQL	BQL
UST1115-MW23	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.00	BQL	BQL
UST1115-MW24	8/18/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW24	1/20/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW24	10/2/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW25	1/23/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
UST1115-MW25	10/3/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	8/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	8/31/2005	99.30	267.00	BQL	0.30	0.20	0.21	0.14	BQL	BQL	BQL	BQL	BQL	0.11	542.00	BQL	BQL
USTHPFFC-MW01	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW01	10/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

- Notes:
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TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
USTHPFFC-MW05	8/22/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW05	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW05	10/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10.00	BQL	BQL
USTHPFFC-MW07	8/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW07	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW07	10/4/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW08	8/31/2005	10.10	14.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	80.90	BQL	BQL
USTHPFFC-MW08	1/24/2006	11.70	19.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	87.70	BQL	BQL
USTHPFFC-MW08	10/6/2006	12.60	20.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	95.70	BQL	BQL
USTHPFFC-MW09	8/22/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW09	1/24/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW09	10/6/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	17.40	BQL	BQL

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 5. A zero in the 2L GWQS row indicates the 2L Standard is equal to the laboratory detection limit
 6. A zero in the GCL row indicates a GCL has not been established
 7. Shaded concentrations indicate exceedance of the 2L GWQS
 8. Only compounds which were detected are shown on table. All other compounds were BQL

TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

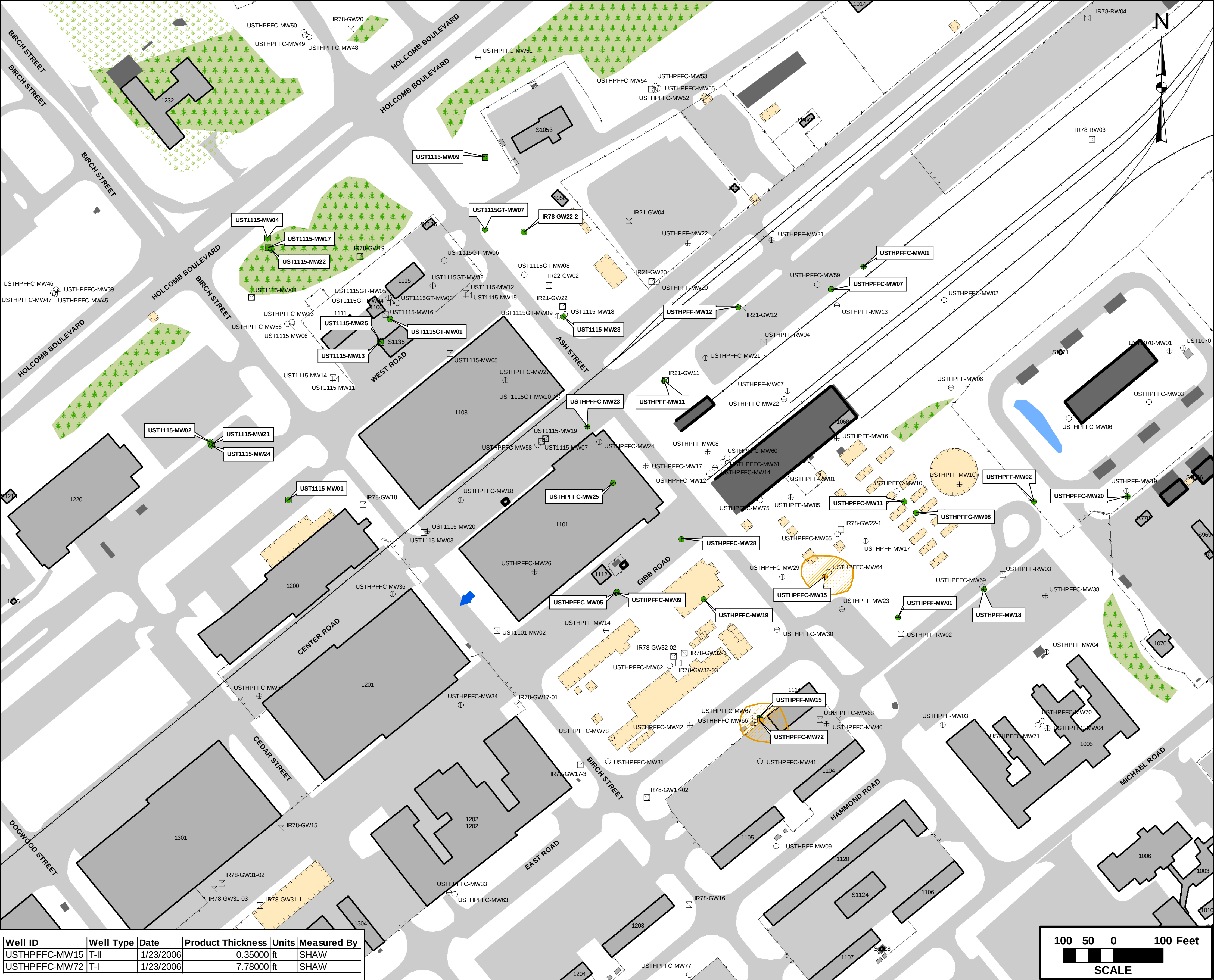
Contaminant of Concern 																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
USTHPFFC-MW10	8/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW11	8/20/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW11	8/27/2005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFFC-MW11	1/24/2006	0.49	1.40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	3.90	BQL	BQL
USTHPFFC-MW17	8/31/2005	67.20	158.00	BQL	0.66	0.37	0.38	0.20	0.18	BQL	BQL	BQL	BQL	0.20	373.00	BQL	2.60
USTHPFFC-MW19	1/24/2006	26.60	56.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	155.00	BQL	BQL
USTHPFFC-MW20	8/31/2005	14.50	32.30	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	101.00	BQL	BQL
USTHPFFC-MW20	1/24/2006	12.60	36.20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	143.00	BQL	BQL
USTHPFFC-MW20	10/4/2006	8.30	26.50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	53.80	BQL	BQL
USTHPFF-MW01	1/23/2006	60.50	107.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	404.00	BQL	BQL
USTHPFF-MW01	10/6/2006	57.80	203.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	364.00	BQL	BQL

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TABLE 7.3B
SITE HPFF
HISTORICAL GROUNDWATER LABORATORY ANALYTICAL RESULTS BEGINNING JULY 2005
EPA METHOD 610

Contaminant of Concern →																	
Well ID	Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
2L GWQS		0	14	80	0.05	0.0047	0.047	210	0.479	4.79	0.0047	280	280	0.0479	21	210	210
GCL		0	12500	2120	22	1.5	0.6	210	0.47	5	0.25	280	950	31	15500	410	210
USTHPFF-MW10R	1/24/2006	42.30	124.00	BQL	1.30	0.63	0.75	0.33	0.38	1.60	0.07	6.20	BQL	0.32	99.80	4.90	4.20
USTHPFF-MW10R	10/4/2006	52.70	170.00	BQL	0.64	0.32	0.22	0.15	0.13	BQL	BQL	4.40	BQL	0.17	132.00	BQL	2.40
USTHPFF-MW11	1/25/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFF-MW11	10/9/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTHPFF-MW17	10/6/2006	80.00	227.00	BQL	0.42	0.23	0.21	0.09	0.09	BQL	BQL	BQL	BQL	0.09	372.00	BQL	BQL
USTHPFF-MW17A	1/24/2006	53.80	145.00	BQL	0.17	0.09	0.14	BQL	BQL	BQL	BQL	BQL	BQL	0.05	302.00	BQL	0.81
USTHPFF-MW18	1/23/2006	40.80	117.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	473.00	BQL	BQL
USTHPFF-MW18	10/6/2006	50.80	202.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	465.00	BQL	BQL

- Notes:
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 8. Only compounds which were detected are shown on table. All other compounds were BQL



MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

LEGEND

Monitoring Wells

- Type I
- Type II
- Type III
- Pumping Well
- Unknown
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank

Free Product

- Free Product Detected
- No Measurable Product
- Free Product Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover

- FORESTLAND
- SCRUBLAND
- WETLAND

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

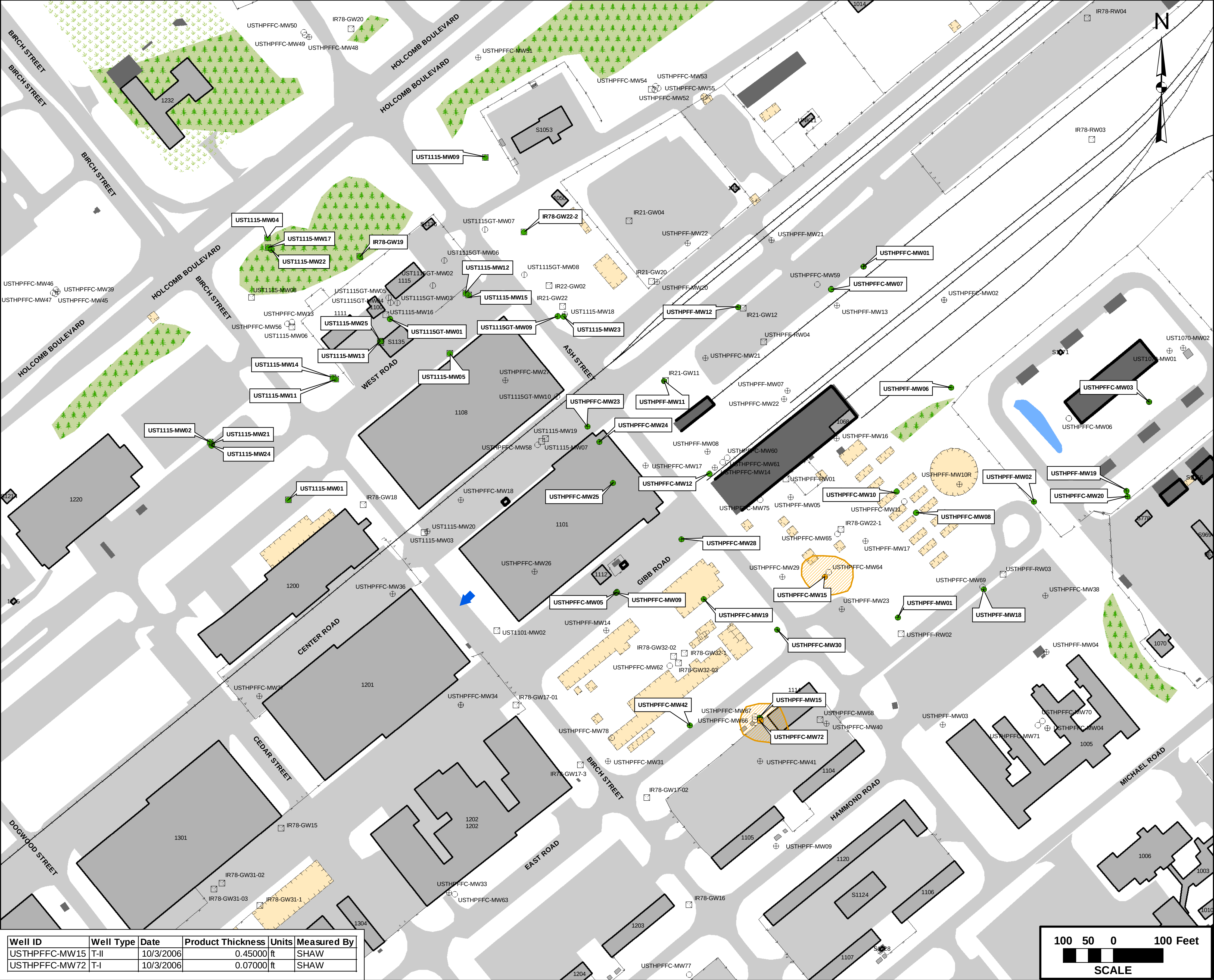
Walls and Fences

- FENCE
- GATE
- WALL

NOTES

1. The Free Product Plume geometry is based on data collected between January 20 through January 25, 2006.

SITE HPFF FREE PRODUCT PLUME MAP - FIRST QUARTER 2006					FIGURE 7.1A
Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM	



MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells

- Type I
- Type II
- Type III
- Pumping Well
- Unknown
- Water Supply Wells

Free Product

- Free Product Detected
- No Measurable Product
- Free Product Plume

Vegetation Cover

- FORESTLAND
- SCRUBLAND
- WETLAND

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

Walls and Fences

- FENCE
- GATE
- WALL

NOTES

1. The Free Product Plume geometry is based on data collected between October 2 through October 9, 2006.



**SITE HPFF FREE PRODUCT
PLUME MAP - FOURTH QUARTER 2006**

Job No.:	Date:	Scale:	Drawn By:	Checked By:
205-002	DEC 2006	AS SHOWN	SAC	MEM

FIGURE

7.1B

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

- Monitoring Wells**

 - Type I
 - Type II
 - Type III
 - Pumping Well
 - Unknown
 - Water Supply Wells
 - Above Ground Storage Tank
 - Underground Storage Tank
- Analytical Results**

 - Free Product Detected
 - 2L Non-Compliant
 - 2L Compliant
 - EPA Method 602 Plume
 - Buildings and Structures
 - Demolished Structures
 - Oil/Water Separators
 - Slabs
 - Roads
 - Driveways
 - Parking Lots
 - Surface Water Bodies
 - Creeks and Streams
 - Groundwater Flow Direction
- Vegetation Cover**

 - FORESTLAND
 - SCRUBLAND
 - WETLAND

Airfield Pavement

 - HELIPAD
 - RAMP
 - RUNWAY
 - SHLDR_OVERRUN
 - TAXIWAY
- Walls and Fences**

 - FENCE
 - GATE
 - WALL

NOTES

- 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
- GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
- A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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SITE HPFF EPA METHOD 602
COLORIMETRY AND PLUME IN
EXCESS OF 2L - FIRST QUARTER 2006

FIGURE

7.2A

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
---------------------	-------------------	--------------------	------------------	--------------------

Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST1115GT-MW01	T-I	1/23/2006	EPA 602	Benzene	1100.0000	ug/l	1.0000	5000.0000
UST1115GT-MW07	T-I	1/25/2006	EPA 602	Benzene	421.0000	ug/l	1.0000	5000.0000
UST1115GT-MW09	T-I	1/23/2006	EPA 602	Benzene	154.0000	ug/l	1.0000	5000.0000
UST1115-MW02		1/20/2006	EPA 602	Benzene	14.9000	ug/l	1.0000	5000.0000
UST1115-MW04		1/20/2006	EPA 602	Benzene	9.0000	ug/l	1.0000	5000.0000
UST1115-MW13		1/23/2006	EPA 602	Benzene	263.0000	ug/l	1.0000	5000.0000
UST1115-MW17		1/20/2006	EPA 602	Benzene	39.3000	ug/l	1.0000	5000.0000
UST1115-MW21	T-II	1/20/2006	EPA 602	Benzene	175.0000	ug/l	1.0000	5000.0000
UST1115-MW22	T-II	1/20/2006	EPA 602	Benzene	1830.0000	ug/l	1.0000	5000.0000
UST1115-MW23	T-III	1/23/2006	EPA 602	Benzene	7230.0000	ug/l	1.0000	5000.0000
UST1115-MW24	T-III	1/20/2006	EPA 602	Benzene	1750.0000	ug/l	1.0000	5000.0000
UST1115-MW25	T-III	1/23/2006	EPA 602	Benzene	5000.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW08	T-III	1/24/2006	EPA 602	Benzene	7480.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW08	T-III	1/24/2006	EPA 602	Xylenes (total)	617.0000	ug/l	530.0000	87500.0000
USTHPFFC-MW11	T-III	1/24/2006	EPA 602	Benzene	96.7000	ug/l	1.0000	5000.0000
USTHPFFC-MW19	T-II	1/24/2006	EPA 602	1,2-Dichlorobenzene	346.0000	ug/l	24.0000	72500.0000
USTHPFFC-MW19	T-II	1/24/2006	EPA 602	Benzene	12100.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW19	T-II	1/24/2006	EPA 602	Ethylbenzene	711.0000	ug/l	550.0000	550000.0000
USTHPFFC-MW19	T-II	1/24/2006	EPA 602	Toluene	9910.0000	ug/l	1000.0000	257500.0000
USTHPFFC-MW19	T-II	1/24/2006	EPA 602	Xylenes (total)	3920.0000	ug/l	530.0000	87500.0000
USTHPFFC-MW20	T-II	1/24/2006	EPA 602	Benzene	4050.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW20	T-II	1/24/2006	EPA 602	Ethylbenzene	698.0000	ug/l	550.0000	550000.0000
USTHPFFC-MW20	T-II	1/24/2006	EPA 602	Toluene	10600.0000	ug/l	1000.0000	257500.0000
USTHPFFC-MW20	T-II	1/24/2006	EPA 602	Xylenes (total)	3180.0000	ug/l	530.0000	87500.0000
USTHPFF-MW01	T-II	1/23/2006	EPA 602	Benzene	2860.0000	ug/l	1.0000	5000.0000
USTHPFF-MW01	T-II	1/23/2006	EPA 602	Ethylbenzene	2850.0000	ug/l	550.0000	550000.0000
USTHPFF-MW01	T-II	1/23/2006	EPA 602	Toluene	20300.0000	ug/l	1000.0000	257500.0000
USTHPFF-MW01	T-II	1/23/2006	EPA 602	Xylenes (total)	13100.0000	ug/l	530.0000	87500.0000
USTHPFF-MW11	T-II	1/25/2006	EPA 602	Benzene	53.6000	ug/l	1.0000	5000.0000
USTHPFF-MW18	T-II	1/23/2006	EPA 602	Benzene	12400.0000	ug/l	1.0000	5000.0000
USTHPFF-MW18	T-II	1/23/2006	EPA 602	Ethylbenzene	1220.0000	ug/l	550.0000	550000.0000
USTHPFF-MW18	T-II	1/23/2006	EPA 602	Toluene	26100.0000	ug/l	1000.0000	257500.0000
USTHPFF-MW18	T-II	1/23/2006	EPA 602	Xylenes (total)	8650.0000	ug/l	530.0000	87500.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

- Monitoring Wells**

 - Type I
 - Type II
 - Type III
 - Pumping Well
 - Unknown
 - Water Supply Wells
 - Above Ground Storage Tank
 - Underground Storage Tank
- Analytical Results**

 - Free Product Detected
 - 2L Non-Compliant
 - 2L Compliant
 - EPA Method 602 Plume
 - Buildings and Structures
 - Demolished Structures
 - Oil/Water Separators
 - Slabs
 - Roads
 - Driveways
 - Parking Lots
 - Surface Water Bodies
 - Creeks and Streams
 - Groundwater Flow Direction
- Vegetation Cover**

 - FORESTLAND
 - SCRUBLAND
 - WETLAND

Airfield Pavement

 - HELIPAD
 - RAMP
 - RUNWAY
 - SHLDR_OVERRUN
 - TAXIWAY
- Walls and Fences**

 - FENCE
 - GATE
 - WALL

NOTES

- 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
- GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
- A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

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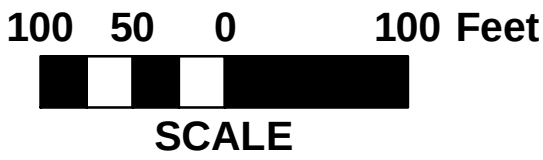
SITE HPFF EPA METHOD 602
COLORIMETRY AND PLUME IN
EXCESS OF 2L - FOURTH QUARTER 2006

FIGURE

7.2B

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
IR78-GW22-2	T-I	10/2/2006	EPA 602	Benzene	98.3000	ug/l	1.0000	5000.0000
UST1115GT-MW01	T-I	10/3/2006	EPA 602	Benzene	2720.0000	ug/l	1.0000	5000.0000
UST1115GT-MW07	T-I	10/9/2006	EPA 602	Benzene	220.0000	ug/l	1.0000	5000.0000
UST1115GT-MW09	T-I	10/2/2006	EPA 602	Benzene	9.7000	ug/l	1.0000	5000.0000
UST1115-MW01	T-I	10/2/2006	EPA 602	Benzene	163.0000	ug/l	1.0000	5000.0000
UST1115-MW02	T-I	10/2/2006	EPA 602	Benzene	28.3000	ug/l	1.0000	5000.0000
UST1115-MW04	T-I	10/2/2006	EPA 602	Benzene	56.6000	ug/l	1.0000	5000.0000
UST1115-MW13	T-I	10/3/2006	EPA 602	Benzene	278.0000	ug/l	1.0000	5000.0000
UST1115-MW17	T-I	10/2/2006	EPA 602	Benzene	168.0000	ug/l	1.0000	5000.0000
UST1115-MW21	T-I	10/2/2006	EPA 602	Benzene	197.0000	ug/l	1.0000	5000.0000
UST1115-MW22	T-I	10/2/2006	EPA 602	Benzene	3880.0000	ug/l	1.0000	5000.0000
UST1115-MW23	T-I	10/2/2006	EPA 602	Benzene	1310.0000	ug/l	1.0000	5000.0000
UST1115-MW24	T-I	10/2/2006	EPA 602	Benzene	2250.0000	ug/l	1.0000	5000.0000
UST1115-MW25	T-I	10/3/2006	EPA 602	Benzene	5160.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW01	T-I	10/4/2006	EPA 602	Benzene	26.3000	ug/l	1.0000	5000.0000
USTHPFFC-MW05	T-I	10/9/2006	EPA 602	Benzene	156.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW07	T-I	10/4/2006	EPA 602	Benzene	4.7000	ug/l	1.0000	5000.0000
USTHPFFC-MW08	T-I	10/6/2006	EPA 602	Benzene	4940.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW08	T-I	10/6/2006	EPA 602	Xylenes (total)	895.0000	ug/l	530.0000	87500.0000
USTHPFFC-MW09	T-I	10/6/2006	EPA 602	Benzene	323.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW19	T-I	10/6/2006	EPA 602	Benzene	1110.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW19	T-I	10/6/2006	EPA 602	Xylenes (total)	615.0000	ug/l	530.0000	87500.0000
USTHPFFC-MW20	T-I	10/4/2006	EPA 602	Benzene	453.0000	ug/l	1.0000	5000.0000
USTHPFFC-MW20	T-I	10/4/2006	EPA 602	Xylenes (total)	712.0000	ug/l	530.0000	87500.0000
USTHPFF-MW01	T-I	10/6/2006	EPA 602	1,2-Dichlorobenzene	600.0000	ug/l	24.0000	72500.0000
USTHPFF-MW01	T-I	10/6/2006	EPA 602	Benzene	2730.0000	ug/l	1.0000	5000.0000
USTHPFF-MW01	T-I	10/6/2006	EPA 602	Ethylbenzene	1380.0000	ug/l	550.0000	55000.0000
USTHPFF-MW01	T-I	10/6/2006	EPA 602	Toluene	15000.0000	ug/l	1000.0000	257500.0000
USTHPFF-MW01	T-I	10/6/2006	EPA 602	Xylenes (total)	9330.0000	ug/l	530.0000	87500.0000
USTHPFF-MW11	T-I	10/9/2006	EPA 602	Benzene	3.7000	ug/l	1.0000	5000.0000
USTHPFF-MW17	T-I	10/6/2006	EPA 602	Benzene	4480.0000	ug/l	1.0000	5000.0000
USTHPFF-MW17	T-I	10/6/2006	EPA 602	Ethylbenzene	2240.0000	ug/l	550.0000	55000.0000
USTHPFF-MW17	T-I	10/6/2006	EPA 602	Methyl Tert Butyl Eth	268.0000	ug/l	200.0000	20000.0000
USTHPFF-MW17	T-I	10/6/2006	EPA 602	Toluene	16400.0000	ug/l	1000.0000	257500.0000
USTHPFF-MW17	T-I	10/6/2006	EPA 602	Xylenes (total)	8280.0000	ug/l	530.0000	87500.0000
USTHPFF-MW18	T-I	10/6/2006	EPA 602	1,2-Dichlorobenzene	578.0000	ug/l	24.0000	72500.0000
USTHPFF-MW18	T-I	10/6/2006	EPA 602	Benzene	10300.0000	ug/l	1.0000	5000.0000
USTHPFF-MW18	T-I	10/6/2006	EPA 602	Ethylbenzene	1280.0000	ug/l	550.0000	55000.0000
USTHPFF-MW18	T-I	10/6/2006	EPA 602	Toluene	20400.0000	ug/l	1000.0000	257500.0000
USTHPFF-MW18	T-I	10/6/2006	EPA 602	Xylenes (total)	6840.0000	ug/l	530.0000	87500.0000



MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells

- Type I
- Type II
- Type III
- Pumping Well
- Unknown
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank

Walls and Fences

- FENCE
- GATE
- WALL

Analytical Results

- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA Method 610 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover

- FORESTLAND
- SCRUBLAND
- WETLAND

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

- 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
- GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
- A 2L Standard of "0.00" implies a standard has not yet been established. According to NCAC T15:02L, any compound found above laboratory detection limits is considered noncompliant unless otherwise specified by the NCDENR.

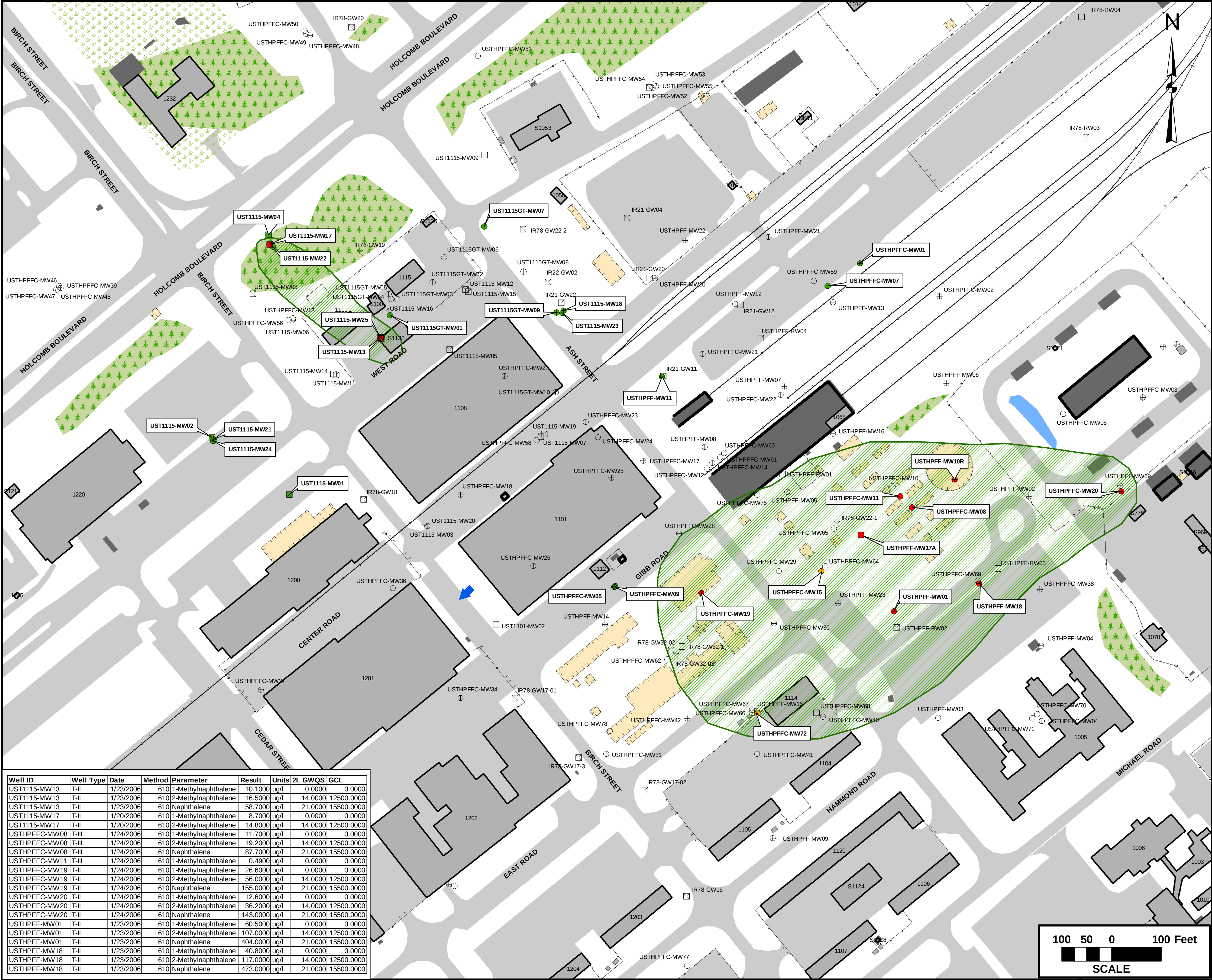


SITE HPFF EPA METHOD 610
COLORIMETRY AND PLUME IN
EXCESS OF 2L - FIRST QUARTER 2006

FIGURE

7.3A

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST1115-MW13	T-II	1/23/2006	610	1-Methylnaphthalene	10.1000	ug/l	0.0000	0.0000
UST1115-MW13	T-II	1/23/2006	610	2-Methylnaphthalene	16.5000	ug/l	14.0000	12500.0000
UST1115-MW13	T-II	1/23/2006	610	Naphthalene	58.7000	ug/l	21.0000	15500.0000
UST1115-MW17	T-II	1/20/2006	610	1-Methylnaphthalene	8.7000	ug/l	0.0000	0.0000
UST1115-MW17	T-II	1/20/2006	610	2-Methylnaphthalene	14.8000	ug/l	14.0000	12500.0000
USTHPFFC-MW08	T-III	1/24/2006	610	1-Methylnaphthalene	11.7000	ug/l	0.0000	0.0000
USTHPFFC-MW08	T-III	1/24/2006	610	2-Methylnaphthalene	19.2000	ug/l	14.0000	12500.0000
USTHPFFC-MW08	T-III	1/24/2006	610	Naphthalene	87.7000	ug/l	21.0000	15500.0000
USTHPFFC-MW11	T-II	1/24/2006	610	1-Methylnaphthalene	0.4900	ug/l	0.0000	0.0000
USTHPFFC-MW19	T-II	1/24/2006	610	1-Methylnaphthalene	26.6000	ug/l	0.0000	0.0000
USTHPFFC-MW19	T-II	1/24/2006	610	2-Methylnaphthalene	56.0000	ug/l	14.0000	12500.0000
USTHPFFC-MW19	T-II	1/24/2006	610	Naphthalene	155.0000	ug/l	21.0000	15500.0000
USTHPFFC-MW20	T-II	1/24/2006	610	1-Methylnaphthalene	12.6000	ug/l	0.0000	0.0000
USTHPFFC-MW20	T-II	1/24/2006	610	2-Methylnaphthalene	36.2000	ug/l	14.0000	12500.0000
USTHPFFC-MW20	T-II	1/24/2006	610	Naphthalene	143.0000	ug/l	21.0000	15500.0000
USTHPFF-MW01	T-II	1/23/2006	610	1-Methylnaphthalene	60.5000	ug/l	0.0000	0.0000
USTHPFF-MW01	T-II	1/23/2006	610	2-Methylnaphthalene	107.0000	ug/l	14.0000	12500.0000
USTHPFF-MW01	T-II	1/23/2006	610	Naphthalene	404.0000	ug/l	21.0000	15500.0000
USTHPFF-MW18	T-II	1/23/2006	610	1-Methylnaphthalene	40.8000	ug/l	0.0000	0.0000
USTHPFF-MW18	T-II	1/23/2006	610	2-Methylnaphthalene	117.0000	ug/l	14.0000	12500.0000
USTHPFF-MW18	T-II	1/23/2006	610	Naphthalene	473.0000	ug/l	21.0000	15500.0000

MCB CAMP LEJEUNE
UST MANAGEMENT PROGRAM



LEGEND

Monitoring Wells

- Type I
- Type II
- Type III
- Pumping Well
- Unknown
- Water Supply Wells
- Above Ground Storage Tank
- Underground Storage Tank

Walls and Fences

- FENCE
- GATE
- WALL

Analytical Results

- Free Product Detected
- 2L Non-Compliant
- 2L Compliant
- EPA Method 610 Plume
- Buildings and Structures
- Demolished Structures
- Oil/Water Separators
- Slabs
- Roads
- Driveways
- Parking Lots
- Surface Water Bodies
- Creeks and Streams
- Groundwater Flow Direction

Vegetation Cover

- FORESTLAND
- SCRUBLAND
- WETLAND

Airfield Pavement

- HELIPAD
- RAMP
- RUNWAY
- SHLDR_OVERRUN
- TAXIWAY

NOTES

- 2L Standard refers to North Carolina Groundwater Quality Standard 15A NCAC 2L.0202.
- GCL refers to Gross Contaminant Level as defined in Table 9 of "Guidelines for Assessment and Corrective Action" North Carolina Underground Storage Tank Section, effective July 1, 2001.
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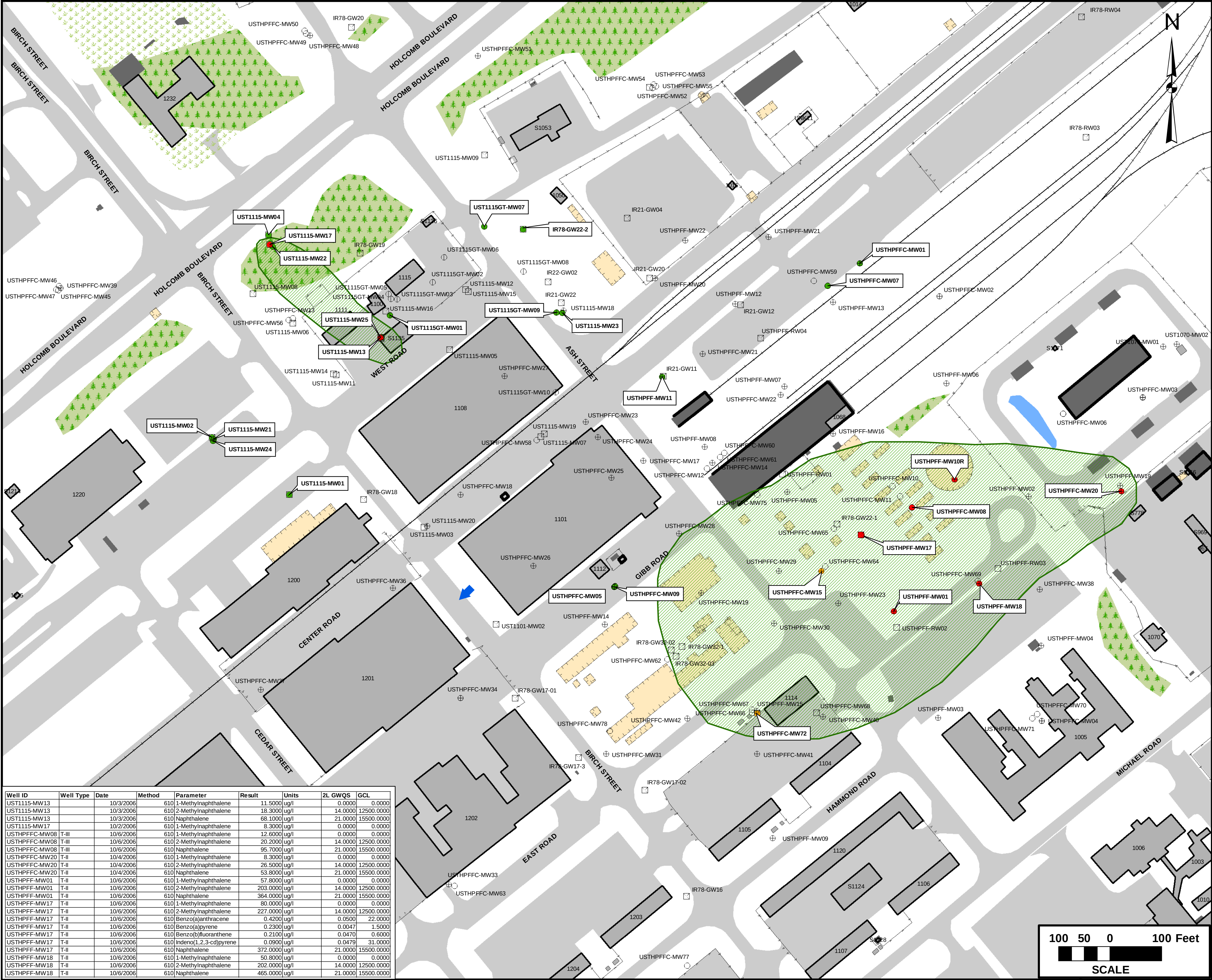


SITE HPFF EPA METHOD 610
COLORIMETRY AND PLUME IN
EXCESS OF 2L - FOURTH QUARTER 2006

FIGURE

7.3B

Job No.: 205-002	Date: DEC 2006	Scale: AS SHOWN	Drawn By: SAC	Checked By: MEM
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Well ID	Well Type	Date	Method	Parameter	Result	Units	2L GWQS	GCL
UST1115-MW13	T-II	10/3/2006	610	1-Methylnaphthalene	11.5000	ug/l	0.0000	0.0000
UST1115-MW13	T-II	10/3/2006	610	2-Methylnaphthalene	18.3000	ug/l	14.0000	12500.0000
UST1115-MW13	T-II	10/3/2006	610	Naphthalene	68.1000	ug/l	21.0000	15500.0000
UST1115-MW17	T-II	10/2/2006	610	1-Methylnaphthalene	8.3000	ug/l	0.0000	0.0000
USTHPFFC-MW08	T-III	10/6/2006	610	1-Methylnaphthalene	12.6000	ug/l	0.0000	0.0000
USTHPFFC-MW08	T-III	10/6/2006	610	2-Methylnaphthalene	20.2000	ug/l	14.0000	12500.0000
USTHPFFC-MW08	T-III	10/6/2006	610	Naphthalene	95.7000	ug/l	21.0000	15500.0000
USTHPFFC-MW20	T-II	10/4/2006	610	1-Methylnaphthalene	8.3000	ug/l	0.0000	0.0000
USTHPFFC-MW20	T-II	10/4/2006	610	2-Methylnaphthalene	26.5000	ug/l	14.0000	12500.0000
USTHPFFC-MW20	T-II	10/4/2006	610	Naphthalene	53.8000	ug/l	21.0000	15500.0000
USTHPFF-MW01	T-II	10/6/2006	610	1-Methylnaphthalene	57.8000	ug/l	0.0000	0.0000
USTHPFF-MW01	T-II	10/6/2006	610	2-Methylnaphthalene	203.0000	ug/l	14.0000	12500.0000
USTHPFF-MW01	T-II	10/6/2006	610	Naphthalene	364.0000	ug/l	21.0000	15500.0000
USTHPFF-MW17	T-II	10/6/2006	610	1-Methylnaphthalene	80.0000	ug/l	0.0000	0.0000
USTHPFF-MW17	T-II	10/6/2006	610	2-Methylnaphthalene	227.0000	ug/l	14.0000	12500.0000
USTHPFF-MW17	T-II	10/6/2006	610	Benzo(a)anthracene	0.4200	ug/l	0.0500	22.0000
USTHPFF-MW17	T-II	10/6/2006	610	Benzo(a)pyrene	0.2300	ug/l	0.0047	1.5000
USTHPFF-MW17	T-II	10/6/2006	610	Benzo(b)fluoranthene	0.2100	ug/l	0.0470	0.6000
USTHPFF-MW17	T-II	10/6/2006	610	Indeno(1,2,3-cd)pyrene	0.0500	ug/l	0.0479	31.0000
USTHPFF-MW01	T-II	10/6/2006	610	Naphthalene	372.0000	ug/l	21.0000	15500.0000
USTHPFF-MW18	T-II	10/6/2006	610	1-Methylnaphthalene	50.8000	ug/l	0.0000	0.0000
USTHPFF-MW18	T-II	10/6/2006	610	2-Methylnaphthalene	202.0000	ug/l	14.0000	12500.0000
USTHPFF-MW18	T-II	10/6/2006	610	Naphthalene	465.0000	ug/l	21.0000	15500.0000

SECTION 8.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3311

NCDENR INCIDENT NO. 24007



8.0 EXECUTIVE SUMMARY

SITE PP-3311

8.1 Site Information

- 8.1.1 Site Location:** MCB Camp Lejeune, Paradise Point
- 8.1.2 Incident Number(s):** 24007
- 8.1.3 UTM Coordinates (WGS84) (Meters):** 283498.38 Easting, 3840447.32 Northing
- 8.1.4 Risk Classification:** Low
- 8.1.5 Land Use Classification:** Residential
- 8.1.6 Source Type(s):** 285 gallon Fuel Oil UST

8.2 Monitoring Event Information

- 8.2.1 Sampling Performed By:** No sampling performed
- 8.2.2 Date(s) of This Monitoring Event:** No sampling performed during 2006
- 8.2.3 Date(s) of Previous Monitoring Event:** No sampling performed during 2005 (Groundwater sampling last conducted November 2004)
- 8.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 8.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

8.3 Groundwater Hydraulics

- 8.3.1 Hydraulic Conductivity:** Unknown
- 8.3.2 Effective Porosity:** Unknown
- 8.3.3 Hydraulic Gradient:** Unknown
- 8.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 8.3.5 Groundwater Flow Direction:** Unknown
- 8.3.6 Range of Measured Water Table Elevations:** Not Measured
- 8.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

8.4 Free Product Plume

- 8.4.1 Free Product Present?:** No
- 8.4.2 Free Product Thickness Measured:** Not Measured
- 8.4.3 Plume Size and Location:** Not Measured
- 8.4.4 Free Product Removed from Site This Period:** None
- 8.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

8.5 Dissolved-Phase Plume

8.5.1 Plume Concentrations: Not Measured

8.5.2 Plume Size and Location: Not Measured

8.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

EPA Method 602

Benzene, Ethylbenzene and Naphthalene were reported at concentrations of <10 ug/L, 107 ug/L and 356 ug/L, respectively. All of these concentrations were in exceedance of the compound's respective 2L GWQS.

MADEP VPH/EPH

Two MADEP fractions were detected at concentrations above the 2L GWQS. The C₉-C₁₈ Aliphatics Hydrocarbon Fraction was reported at a concentration of 9,300 ug/L which is above the 2L GWQS of 4,200 ug/L for this compound. The C₉-C₂₂ Aromatics Hydrocarbon Fraction was reported at a concentration of 9,550 ug/L which is above the 2L GWQS of 210 ug/L for this compound.

8.6 Potential Receptors

8.6.1 Contaminated Water Supply Well(s)?: No

8.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

8.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

8.6.4 Surface Water Body Within 500 Feet?: Yes, the New River is approximately 300 feet west of the site.

8.6.5 Past Evidence of Vapors?: No

8.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

8.7 Remediation

8.7.1 Status: Complete

8.7.2 Type: Soil Excavation

8.7.3 Progress: Complete

8.7.4 Construction Contractor: J. A. Jones

8.7.5 Operating Contractor: None

8.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per EPA Method 602 (add Naphthalene) and MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed from this site.

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YEAR 2006
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SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3322

NCDENR INCIDENT NO. 24008



9.0 EXECUTIVE SUMMARY

SITE PP-3322

9.1 Site Information

- 9.1.1 Site Location:** MCB Camp Lejeune, Paradise Point
- 9.1.2 Incident Number(s):** 24008
- 9.1.3 UTM Coordinates (WGS84) (Meters):** 283256.74 Easting, 3840565.41 Northing
- 9.1.4 Risk Classification:** Low
- 9.1.5 Land Use Classification:** Residential
- 9.1.6 Source Type(s):** 285 gallon Heating Oil UST

9.2 Monitoring Event Information

- 9.2.1 Sampling Performed By:** No sampling performed
- 9.2.2 Date(s) of This Monitoring Event:** No sampling performed during 2006
- 9.2.3 Date(s) of Previous Monitoring Event:** No sampling performed during 2005 (Groundwater sampling last conducted November 2004)
- 9.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 9.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

9.3 Groundwater Hydraulics

- 9.3.1 Hydraulic Conductivity:** Unknown
- 9.3.2 Effective Porosity:** Unknown
- 9.3.3 Hydraulic Gradient:** Unknown
- 9.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 9.3.5 Groundwater Flow Direction:** Unknown
- 9.3.6 Range of Measured Water Table Elevations:** Not Measured
- 9.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

9.4 Free Product Plume

- 9.4.1 Free Product Present?:** No
- 9.4.2 Free Product Thickness Measured:** Not Measured
- 9.4.3 Plume Size and Location:** Not Measured
- 9.4.4 Free Product Removed from Site This Period:** None
- 9.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

9.5 Dissolved-Phase Plume

9.5.1 Plume Concentrations: Not Measured

9.5.2 Plume Size and Location: Not Measured

9.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

EPA Method 602

Naphthalene was the only EPA Method 602 compound detected above the 2L GWQS. This compound was revealed at a concentration 29.7 ug/L, which is in excess of the 2L GWQS for this compound of 21 ug/L.

MADEP VPH/EPH

The C₁₁-C₂₂ Aromatics Hydrocarbon Fraction was reported at a concentration of 250 ug/L which is above the 2L GWQS of 210 ug/L for the combined C₉-C₂₂ Aromatics Hydrocarbon Fraction.

9.6 Potential Receptors

9.6.1 Contaminated Water Supply Well(s)?: None

9.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

9.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

9.6.4 Surface Water Body Within 500 Feet?: No

9.6.5 Past Evidence of Vapors?: No

9.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

9.7 Remediation

9.7.1 Status: Complete

9.7.2 Type: Soil Excavation

9.7.3 Progress: Complete

9.7.4 Construction Contractor: J.A. Jones

9.7.5 Operating Contractor: None

9.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per EPA Method 602 (add Naphthalene) and MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed from this site.

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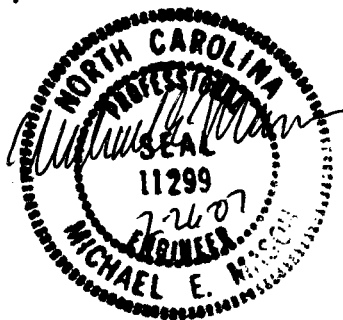
MONITORING EVENT:

YEAR 2006
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SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3340

NCDENR INCIDENT NO. 24012



10.0 EXECUTIVE SUMMARY

SITE PP-3340

10.1 Site Information

- 10.1.1 Site Location:** MCB Camp Lejeune, Paradise Point.
- 10.1.2 Incident Number(s):** 24012
- 10.1.3 UTM Coordinates (WGS84) (Meters):** 283212.84 Easting, 3840581.19 Northing
- 10.1.4 Risk Classification:** Low
- 10.1.5 Land Use Classification:** Residential
- 10.1.6 Source Type(s):** 285 gallon Heating Oil UST

10.2 Monitoring Event Information

- 10.2.1 Sampling Performed By:** No sampling performed
- 10.2.2 Date(s) of This Monitoring Event:** No sampling performed in 2006
- 10.2.3 Date(s) of Previous Monitoring Event:** No sampling performed in 2005 (Groundwater sampling last conducted November 2004)
- 10.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 10.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

10.3 Groundwater Hydraulics

- 10.3.1 Hydraulic Conductivity:** Unknown
- 10.3.2 Effective Porosity:** Unknown
- 10.3.3 Hydraulic Gradient:** Unknown
- 10.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 10.3.5 Groundwater Flow Direction:** Unknown
- 10.3.6 Range of Measured Water Table Elevations:** Not Measured
- 10.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

10.4 Free Product Plume

- 10.4.1 Free Product Present?:** No
- 10.4.2 Free Product Thickness Measured:** Not Measured
- 10.4.3 Plume Size and Location:** Not Measured
- 10.4.4 Free Product Removed from Site This Period:** None
- 13.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

10.5 Dissolved-Phase Plume

10.5.1 Plume Concentrations: Not Measured

10.5.2 Plume Size and Location: Not Measured

10.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

MADEP VPH/EPH

The C₁₁-C₂₂ Aromatics Hydrocarbon Fraction was reported at a concentration of 1,900 ug/L which is above the 2L GWQS of 210 ug/L for the combined C₉-C₂₂ Aromatics Hydrocarbon Fraction.

10.6 Potential Receptors

10.6.1 Contaminated Water Supply Well(s)?: None

10.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

10.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

10.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 300 feet west of the subject site.

10.6.5 Past Evidence of Vapors?: No

10.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

10.7 Remediation

10.7.1 Status: Complete

10.7.2 Type: Soil Excavation

10.7.3 Progress: Complete

10.7.4 Construction Contractor: J. A. Jones

10.7.5 Operating Contractor: None

10.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed from this site.

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SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3343

NCDENR INCIDENT NO. 24013



11.0 EXECUTIVE SUMMARY

SITE PP-3343

11.1 Site Information

- 11.1.1 Site Location:** MCB Camp Lejeune, Paradise Point
- 11.1.2 Incident Number(s):** 24013
- 11.1.3 UTM Coordinates (WGS84) (Meters):** 282983.74 Easting, 3840678.92 Northing
- 11.1.4 Risk Classification:** Low
- 11.1.5 Land Use Classification:** Residential
- 11.1.6 Source Type(s):** 285 gallon Heating Oil UST

11.2 Monitoring Event Information

- 11.2.1 Sampling Performed By:** No sampling performed
- 11.2.2 Date(s) of This Monitoring Event:** No sampling performed in 2006
- 11.2.3 Date(s) of Previous Monitoring Event:** No sampling performed in 2005 (Groundwater sampling last conducted November 2004).
- 11.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 11.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

11.3 Groundwater Hydraulics

- 11.3.1 Hydraulic Conductivity:** Unknown
- 11.3.2 Effective Porosity:** Unknown
- 11.3.3 Hydraulic Gradient:** Unknown
- 11.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 11.3.5 Groundwater Flow Direction(s):** Unknown
- 11.3.6 Range of Measured Water Table Elevations:** Not Measured
- 11.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

11.4 Free Product Plume

- 11.4.1 Free Product Present?:** No
- 11.4.2 Free Product Thickness Measured:** Not Measured
- 11.4.3 Plume Size and Location:** Not Measured
- 11.4.4 Free Product Removed from Site This Period:** None
- 11.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

11.5 Dissolved-Phase Plume

11.5.1 Plume Concentrations: Not Measured

11.5.2 Plume Size and Location: Not Measured

11.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

EPA Method 602

Naphthalene was the only EPA Method 602 compound analyzed for and it was detected at a concentration of 6.43 ug/L which is well below the 2L GWQS of 21 ug/L for this compound.

MADEP VPH/EPH

Two MADEP fractions were detected at concentrations above the 2L GWQS. The C₉-C₁₈ Aliphatics Hydrocarbon Fraction was reported at a concentration of 7,000 ug/L which is above the 2L GWQS of 4,200 ug/L for this compound. The C₁₁-C₂₂ Aromatics Hydrocarbon Fraction was reported at a concentration of 3,600 ug/L which is above the 2L GWQS of 210 ug/L for the combined C₉-C₂₂ Aromatics Hydrocarbon Fraction.

11.6 Potential Receptors

11.6.1 Contaminated Water Supply Well(s)?: None

11.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

11.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

11.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 50 feet west of the subject site.

11.6.5 Past Evidence of Vapors?: No

11.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

11.7 Remediation

11.7.1 Status: Complete

11.7.2 Type: Soil Excavation

11.7.3 Progress: Complete

11.7.4 Construction Contractor: J.A. Jones

11.7.5 Operating Contractor: None

11.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed from this site.

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SITE-SPECIFIC MONITORING REPORT
FOR

SITE PP-3354

NCDENR INCIDENT NO. 24015



12.0 EXECUTIVE SUMMARY

SITE PP-3354

12.1 Site Information

- 12.1.1 Site Location:** MCB Camp Lejeune, Paradise Point
- 12.1.2 Incident Number(s):** 24015
- 12.1.3 UTM Coordinates (WGS84) (Meters):** 283105.56 Easting, 3840679.40 Northing
- 12.1.4 Risk Classification:** Low
- 12.1.5 Land Use Classification:** Residential
- 12.1.6 Source Type(s):** 285 gallon Heating Oil UST

12.2 Monitoring Event Information

- 12.2.1 Sampling Performed By:** No sampling performed
- 12.2.2 Date(s) of This Monitoring Event:** No sampling performed in 2006
- 12.2.3 Date(s) of Previous Monitoring Event:** No sampling performed in 2005 (Groundwater sampling last conducted November 2004)
- 12.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 12.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

12.3 Groundwater Hydraulics

- 12.3.1 Hydraulic Conductivity:** Unknown
- 12.3.2 Effective Porosity:** Unknown
- 12.3.3 Hydraulic Gradient:** Unknown
- 12.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 12.3.5 Groundwater Flow Direction(s):** Unknown
- 12.3.6 Range of Measured Water Table Elevations:** Not Measured
- 12.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

12.4 Free Product Plume

- 12.4.1 Free Product Present?:** No
- 12.4.2 Free Product Thickness Measured:** Not Measured
- 12.4.3 Plume Size and Location:** Not Measured
- 12.4.4 Free Product Removed from Site This Period:** None
- 12.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

12.5 Dissolved-Phase Plume

12.5.1 Plume Concentrations: Not Measured

12.5.2 Plume Size and Location: Not Measured

12.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

EPA Method 602

Naphthalene was the only EPA Method 602 compound analyzed for and it was detected at a concentration of 70.7 ug/L which is above the 2L GWQS of 21 ug/L for this compound.

MADEP VPH/EPH

The C₉-C₂₂ Aromatics Hydrocarbon Fraction was reported at a concentration of 720 ug/L which is above the 2L GWQS of 210 ug/L for this compound.

12.6 Potential Receptors

12.6.1 Contaminated Water Supply Well(s)?: None

12.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

12.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

12.6.4 Surface Water Body Within 500 Feet?: Yes. The New River is approximately 300 feet west of the subject site.

12.6.5 Past Evidence of Vapors?: No

12.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

12.7 Remediation

12.7.1 Status: Complete

12.7.2 Type: Soil Excavation

12.7.3 Progress: Complete

12.7.4 Construction Contractor: J.A. Jones

12.7.5 Operating Contractor: None

12.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per EPA Method 602 (add Naphthalene) and MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. In addition, a soil sample should be collected in the location of the previous sample, USTPP3354-SB03(3-4'), and analyzed per MADEP VPH/EPH to determine if soil contamination has naturally attenuated to levels below the Residential MSCCs. If contaminant concentrations have decreased to below the 2L GWQS and the Residential MSCCs, the land use restriction could be removed from this site.

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SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-2463-73

NCDENR INCIDENT NO. 21139



13.0 EXECUTIVE SUMMARY

SITE TT-2463-73

13.1 Site Information

- 13.1.1 Site Location:** MCB Camp Lejeune
- 13.1.2 Incident Number(s):** 21139
- 13.1.3 UTM Coordinates (WGS84) (Meters):** 282640.09 Easting, 3845939.59 Northing
- 13.1.4 Risk Classification:** Low
- 13.1.5 Land Use Classification:** Residential
- 13.1.6 Source Type(s):** Six, 500 gallon Heating Oil USTs

13.2 Monitoring Event Information

- 13.2.1 Sampling Performed By:** No sampling performed
- 13.2.2 Date(s) of This Monitoring Event:** No sampling performed in 2006
- 13.2.3 Date(s) of Previous Monitoring Event:** No sampling performed in 2005
- 13.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 13.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions.

13.3 Groundwater Hydraulics

- 13.3.1 Hydraulic Conductivity:** Ranged from 1.12 to 6.99 ft/day (From 1995 CSA by CATLIN)
- 13.3.2 Effective Porosity:** 0.25 (From 1995 CSA by CATLIN)
- 13.3.3 Hydraulic Gradient:** 0.007 (From 1995 CSA by CATLIN)
- 13.3.4 Average Linear Groundwater Flow Velocity:** 0.2 ft/day (From 1995 CSA by CATLIN)
- 13.3.5 Groundwater Flow Direction(s):** Groundwater flow direction was measured towards the south (From 1995 CSA by CATLIN).
- 13.3.6 Range of Measured Water Table Elevations:** Not Measured
- 13.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

13.4 Free Product Plume

- 13.4.1 Free Product Present?:** No
- 13.4.2 Free Product Thickness Measured:** Not Measured
- 13.4.3 Plume Size and Location:** Not Measured
- 13.4.4 Free Product Removed from Site This Period:** None
- 13.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

13.5 Dissolved-Phase Plume

13.5.1 Plume Concentrations: Not Measured

13.5.2 Plume Size and Location: Not Measured

13.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. It is unknown when the most recent groundwater sampling event occurred at the subject site.

13.6 Potential Receptors

13.6.1 Contaminated Water Supply Well(s)?: None

13.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

13.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

13.6.4 Surface Water Body Within 500 Feet?: No

13.6.5 Past Evidence of Vapors?: No

13.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

13.7 Remediation

13.7.1 Status: System shutdown

13.7.2 Type: Soil Vapor Extraction, Biosparge and Soil Excavation

13.7.3 Progress: Complete

13.7.4 Construction Contractor: J.A. Jones

13.7.5 Operating Contractor: None

13.8 Observations and Comments

On November 7, 2005, the NCDENR agreed with the NFA request assuming the site has been re-asphalted/concreted and a land use restriction has been applied.

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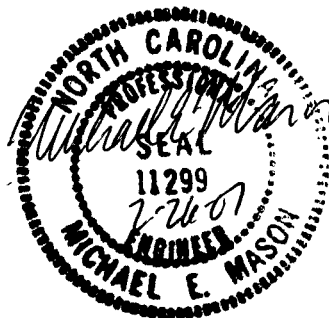
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SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-3165

NCDENR INCIDENT NO. 23971



14.0 EXECUTIVE SUMMARY

SITE TT-3165

14.1 Site Information

- 14.1.1 Site Location:** MCB Camp Lejeune, Tarawa Terrace
- 14.1.2 Incident Number(s):** 23971
- 14.1.3 UTM Coordinates (WGS84) (Meters):** 281917.81 Easting, 3846874.76 Northing
- 14.1.4 Risk Classification:** Low
- 14.1.5 Land Use Classification:** Residential
- 14.1.6 Source Type(s):** 550 gallon Heating Oil UST

14.2 Monitoring Event Information

- 14.2.1 Sampling Performed By:** No sampling performed
- 14.2.2 Date(s) of This Monitoring Event:** No sampling performed in 2006
- 14.2.3 Date(s) of Previous Monitoring Event:** No sampling performed in 2005 (Groundwater sampling last conducted November 2004)
- 14.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 14.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

14.3 Groundwater Hydraulics

- 14.3.1 Hydraulic Conductivity:** Unknown
- 14.3.2 Effective Porosity:** Unknown
- 14.3.3 Hydraulic Gradient:** Unknown
- 14.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 14.3.5 Groundwater Flow Direction(s):** Unknown
- 14.3.6 Range of Measured Water Table Elevations:** Not Measured
- 14.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

14.4 Free Product Plume

- 14.4.1 Free Product Present?:** No
- 14.4.2 Free Product Thickness Measured:** Not Measured
- 14.4.3 Plume Size and Location:** Not Measured
- 14.4.4 Free Product Removed from Site This Period:** None
- 14.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

14.5 Dissolved-Phase Plume

14.5.1 Plume Concentrations: Not Measured

14.5.2 Plume Size and Location: Not Measured

14.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

EPA Method 625

Bis(2-ethylhexyl)phthalate was the only EPA Method 625 compound analyzed for and it was not detected above the laboratory quantitation limit.

MADEP VPH/EPH

The C₁₁-C₂₂ Aromatics Hydrocarbon Fraction was reported at a concentration of 1,900 ug/L which is above the 2L GWQS of 210 ug/L for the combined C₉-C₂₂ Aromatics Hydrocarbon Fraction.

14.5.4 Contaminated Water Supply Well(s)?: None

14.5.5 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

14.5.6 Any Water Supply Well Within 250 Feet of Source Area?: No

14.5.7 Surface Water Body Within 500 Feet?: Yes. Frenchman's Creek is located approximately 250 north of the subject site.

14.5.8 Past Evidence of Vapors?: No

14.5.9 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

14.6 Remediation

14.6.1 Status: Complete

14.6.2 Type: Soil Excavation

14.6.3 Progress: Complete

14.6.4 Construction Contractor: J.A. Jones

14.6.5 Operating Contractor: None

14.7 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per MADEP VPH/EPH to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed from this site.

SECTION 15.0
OF THE
ANNUAL MANAGEMENT REPORT
MCB CAMP LEJEUNE UST MANAGEMENT PROGRAM

MONITORING EVENT:

YEAR 2006
(JANUARY 2006 THROUGH DECEMBER 2006)

SITE-SPECIFIC MONITORING REPORT
FOR

SITE TT-3233

NCDENR INCIDENT NO. 23970



15.0 EXECUTIVE SUMMARY

SITE TT-3233

15.1 Site Information

- 15.1.1 Site Location:** MCB Camp Lejeune, Tarawa Terrace
- 15.1.2 Incident Number(s):** 23970
- 15.1.3 UTM Coordinates (WGS84) (Meters):** 281888.50 Easting, 3846657.93 Northing
- 15.1.4 Risk Classification:** Low
- 15.1.5 Land Use Classification:** Residential
- 15.1.6 Source Type(s):** 550 gallon Heating Oil UST

15.2 Monitoring Event Information

- 15.2.1 Sampling Performed By:** No sampling performed
- 15.2.2 Date(s) of This Monitoring Event:** No sampling performed in 2006
- 15.2.3 Date(s) of Previous Monitoring Event:** No sampling performed in 2005 (Groundwater sampling last conducted November 2004)
- 15.2.4 Reason(s) for This Monitoring Event:** Not Applicable
- 15.2.5 Site Monitoring Status at Time of This Event:** Site has been approved for NFA with Land Use Restrictions, however it is recommended that the site be re-sampled during the next monitoring period to determine if contaminant levels have naturally attenuated to below the 2L GWQS.

15.3 Groundwater Hydraulics

- 15.3.1 Hydraulic Conductivity:** Unknown
- 15.3.2 Effective Porosity:** Unknown
- 15.3.3 Hydraulic Gradient:** Unknown
- 15.3.4 Average Linear Groundwater Flow Velocity:** Unknown
- 15.3.5 Groundwater Flow Direction:** Unknown
- 15.3.6 Range of Measured Water Table Elevations:** Not Measured
- 15.3.7 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

15.4 Free Product Plume

- 15.4.1 Free Product Present?:** No
- 15.4.2 Free Product Thickness Measured:** Not Measured
- 15.4.3 Plume Size and Location:** Not Measured
- 15.4.4 Free Product/Contaminants Removed from Site This Period:** None
- 15.4.5 Significant Changes from Previously Reported Data:** Not Applicable. This is the first Management Report prepared by CATLIN.

15.5 Dissolved-Phase Plume

15.5.1 Plume Concentrations: Not Measured

15.5.2 Plume Size and Location: Not Measured

15.5.3 Significant Changes from Previously Reported Data: Not Applicable. This is the first Management Report prepared by CATLIN. The most recent groundwater sample analytical results from November 2004, as compared to the 2L GWQS, is discussed as follows:

EPA Method 602

Benzene was the only EPA Method 602 compound analyzed for and it was detected at a concentration of 9.1 ug/L which is above the 2L GWQS of 1 ug/L for this compound.

15.6 Potential Receptors

15.6.1 Contaminated Water Supply Well(s)?: None

15.6.2 Potable Water Supply Well Within 1,000 Feet of Source Area?: No

15.6.3 Any Water Supply Well Within 250 Feet of Source Area?: No

15.6.4 Surface Water Body Within 500 Feet?: Yes. An unnamed tributary of Frenchman's Creek is located approximately 250 feet south of the subject site.

15.6.5 Past Evidence of Vapors?: No

15.6.6 Significant Changes from Previously Reported Data?: Not Applicable. This is the first Management Report prepared by CATLIN.

15.7 Remediation

15.7.1 Status: Complete

15.7.2 Type: Soil Excavation

15.7.3 Progress: Complete

15.7.4 Construction Contractor: J.A. Jones

15.7.5 Operating Contractor: None

15.8 Observations and Comments

As the site has not been sampled since November 2004, CATLIN recommends the site be sampled in July 2007 per EPA Method 602 to determine if groundwater contamination has naturally attenuated to levels below the 2L GWQS. If contaminant concentrations have decreased to below the 2L GWQS the land use restriction could be removed from this site.