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FINAL GROUNDWATER MONITORING REPORT APRIL 2008 AND OCTOBER 2008 SAMPLING EVENTS AT OLD NAVY FUEL FARM NAS BRUNSWICK ME

9/1/2009

ECOR SOLUTIONS INC

Final
Groundwater Monitoring Report
April 2008 and October 2008 Sampling Events
Old Navy Fuel Farm
Naval Air Station Brunswick, Maine

Prepared for

Department of the Navy
Naval Facilities Engineering Command
4911 South Broad Street
Philadelphia, Pennsylvania 19112-1303

Contract Number N62472-03-D-0802
Contract Task Order 0172

September 2009

Submitted by:

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As per State of Maine Department of Professional and Financial Regulations, Title 32 Chapter 73, Law, the sections of this document related to geology and geologic data interpretation have been reviewed for its technical content by the undersigned State of Maine Certified Geologist.

This document has been reviewed by the undersigned for their geological interpretive content. This statement is based upon the review of the undersigned conducted during the preparation of this report, as dated below.

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LIST OF ABBREVIATIONS AND ACRONYMS

AS	air sparge
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbenzene, and xylenes
°C	degrees Celsius
EA	EA Science Engineering and Technology Inc.
ECC	Environmental Chemical Corporation
EDB	1,2 dibromomethane
EDD	electronic data deliverable
EPA	U.S. Environmental Protection Agency
EPH	extractable petroleum hydrocarbon
DRO	diesel range organics
Fe D	dissolved ferrous iron
Ft/Ft	feet per feet
FEW	Foster Wheeler Environmental
GAC	granulated activated carbon
GMP	Groundwater Monitoring Plan
GRO	gasoline range organics
HRP	HRP Associates Inc.
IDW	investigation derived waste
LNAPL	light non-aqueous phase liquid
LTMP	Long-Term Monitoring Plan
MCL	maximum contaminant levels
MDL	method detection limit
MEDEP	Maine Department of Environmental Protection
MEG	maximum exposure guidelines
Me HETL	Maine Health and Environmental Testing Laboratory
MEDHS	Maine Department of Human Services
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
mg/kg	milligram per kilogram
mg/L	milligrams per liter
mV	millivolt
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tert-butyl ether
MW	monitoring well
NAS	Naval Air Station
NTU	nephelometric turbidity units
ONFF	Old Navy Fuel Farm
OBG	O'Brien and Gere Engineering Inc.
QAPP	Quality Assurance Project Plan
SGT	silica gel treatment

SpC	specific conductivity
SU	standard units
SVE	soil vapor extraction
TOC	total organic carbon
UST	underground storage tank
VOC	volatile organic compounds
YSI	Yellow Springs Instruments

1.0 INTRODUCTION

Under Contract No. N62472-03-D-0802, Engineering Field Activity Northeast, Naval Facilities Engineering Command (NAVFAC) issued Contract Task Order No. 0172 to ECOR Solutions, Inc. (ECOR), which contracted ECC, to conduct groundwater monitoring at the Old Navy Fuel Farm (ONFF), Naval Air Station Brunswick, Maine (NAS Brunswick). NAS Brunswick is located south of the Androscoggin River and south of State Route 1 between State Routes 24 and 123. NAS Brunswick is an active base, owned and operated by the Federal Government through the Department of the Navy (Navy). The ONFF (Site) is located on the northeast portion of NAS Brunswick (**Figure 1-1**).

A Groundwater Monitoring Plan prepared by EA Engineering, Science, and Technology (EA) (EA 2000a) was developed to support the Navy's overall strategy for remediation at the ONFF at NAS Brunswick. The ONFF has petroleum-impacted soil and groundwater. A remedial action was completed in fall 2000, during which approximately 15,000 tons of petroleum-impacted soil was removed by the Navy's Remedial Action Contractor at that time, Foster Wheeler Environmental Corporation (FWE) (FWE 2001). The monitoring program was implemented to evaluate the effectiveness of the removal action in achieving cleanup goals. This report summarizes the April and October 2008 groundwater sampling events that were completed to monitor groundwater petroleum concentrations.

1.1 SITE DESCRIPTION

The ONFF is located on the northeast portion of NAS Brunswick (**Figure 1-1**), and is bounded by Avenue B to the south, 6th Street to the west, and by undeveloped land to the north and east (**Figure 1-2**). The topography of the area is characterized as level and exhibits little relief. Surface grade consists of two newly constructed baseball fields, grass, and paved access roads. The ball fields were installed during the construction seasons of 2002 and 2003. The Site is located greater than 2,000 ft from the Town of Brunswick public water supply well. The shallow aquifer on-Site, which has been determined to be impacted by petroleum, is not used as a potable water supply source.

1.2 SITE GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

Previous hydrogeologic investigations (O'Brien & Gere Engineers, Inc. (OBG) 1990, 1992) revealed that the Site is underlain by a sandy unit (Upper Sand), which forms a shallow overburden saturated zone. The Upper Sand is continuous and underlain by a glacio-marine silty clay unit (designated as the Presumpscot Formation by the Maine Geologic Survey), which acts as an aquitard. The Upper Sand ranges in thickness from 2.5 to 9.0 ft with thicker zones located at the northwest section of the Site. The groundwater surface occurs in the Upper Sand, and shallow groundwater flow is generally to the southeast, parallel to the surface drainage. The hydraulic gradient is approximately 0.013 feet per feet (ft/ft), which is consistent with past Site groundwater studies yielding an average gradient of 0.014 ft/ft (EA 1998a).

1.3 HISTORICAL PETROLEUM BULK STORAGE AND ENVIRONMENTAL INVESTIGATION SUMMARY

Prior to decommissioning in 1993, the ONFF consisted of two separate petroleum bulk storage tank farms, which together included nine mounded underground storage tanks (USTs). The older, western tank farm included five USTs, previously identified as USTs T-101, T-102, T-103, T-104, and T-105. USTs T-101, T-102, and T-103 were 100,000-gallon capacity tanks used for storage of petroleum sludge, unleaded gasoline, and aviation gasoline, respectively. USTs T-104 and T-105 were both 25,000-gallon capacity tanks used for storage of ethylene glycol. The newer, eastern Fuel Farm, included four USTs, previously identified as USTs T-202, T-203, T-204, and T-205. Each of these USTs was 567,000-gallon capacity tanks used for storage of JP-5. At some time prior to April 1990, USTs T-101 through T-103 were taken out of service. All remaining USTs and appurtenant pumps and piping, were removed from the ONFF during facility decommissioning completed in 1993.

Previous environmental investigations (OBG. 1990, 1992) identified a dissolved-phase hydrocarbon plume located in the east central portion of the ONFF (east of 7th Street), which appeared to originate in the vicinity of former JP-5 UST T-202. This plume previously extended downgradient from the former location of UST T-202 toward the south-southeast and consisted primarily of benzene, toluene, ethylbenzene, and xylene (collectively BTEX) compounds. In November 1991, a supplemental groundwater investigation confirmed the presence of this dissolved-phase hydrocarbon plume (OBG 1992).

In October and November 1993, HRP Associates, Inc., of Plainville, Connecticut (HRP), completed a groundwater investigation at the ONFF following facility decommissioning and associated UST removals, with the exception of T-202 and T-203 (HRP 1993). The results of the groundwater investigation indicated that the dissolved-phase BTEX plume located in the eastern Fuel Farm had exhibited a significant reduction in total BTEX concentrations with little or no indication of plume migration. The extent of the dissolved-phase BTEX plume did not exhibit significant change from April 1990 to November 1993. However, the maximum dissolved-phase BTEX concentration in the source area decreased from greater than 20,000 micrograms per liter (µg/L) in 1990 to 4,777 µg/L in 1993, with similar reductions in dissolved-phase BTEX concentrations throughout the plume area. These observations document that significant natural attenuation of petroleum hydrocarbons at the ONFF has occurred, since the USTs were taken out of service.

It should be noted that groundwater samples collected by both OBG and HRP during the period of 1990 to 1993 indicated the presence of a separate, dissolved-phase hydrocarbon release area in the western Fuel Farm (west of 7th Street). However at the time, insufficient samples were collected to delineate the extent of this western plume.

1.4 SUMMARY OF REMEDIAL PROGRAMS AT THE OLD NAVY FUEL FARM

Remedial programs completed at the ONFF include the following:

- Operation of an existing soil vapor extraction (SVE)/air sparge (AS) system as a biosparging system (i.e., low-flow air injection without vapor extraction) during the period of August 1996 to December 1998
- Active SVE/AS system operation (with product recovery) during March1999 to July 1999
- Biosparging system operation during September 1999 to August 2000
- Remedial excavation of residual source area soils during September 2000 to November 2000.

The following sections provide brief summaries of each remedial program outlined above.

1.4.1 Biosparging System Operation (August 1996 to December 1998)

A SVE/AS system for remediation of vadose and saturated zone hydrocarbon contamination at the ONFF was designed by HRP and installed by OHM, Inc. in early 1996. In June 1996, a pre-start investigation was conducted, during which time it was found that the water table elevation was at or above the level of the lateral SVE intake screens, preventing proper operation of the SVE system. Since effective operation of the SVE system was not possible, the Navy obtained approval from the Maine Department of Environmental Protection (MEDEP) to operate the system as a biosparging system to enhance *in-situ* biodegradation of petroleum hydrocarbons. The ONFF biosparging system was activated on 8 August 1996 with the injection of compressed air into both lateral SVE screens and AS wells throughout the eastern and western dissolved-phase plume areas.

The biosparging system was operated until December 1998, at which point the system was de-activated to allow completion of system modifications for SVE operations. Based on a comparison of the results from groundwater samples, collected prior to and following this biosparging period, a measurable reduction in both the extent and concentration of dissolved-phase BTEX concentrations was exhibited throughout the ONFF. This observation is supported by five additional groundwater sampling events, conducted bi-annually, during the biosparging system operational period (EA 1997a, 1997b, 1998b, 1998c, 2000b).

1.4.2 Soil Vapor Extraction/Air Sparging System Operation (March 1999 to July 1999)

In an effort to increase the effectiveness of active remedial operations at the ONFF, modifications were made to allow operation of the SVE system, which had previously been inoperable due to elevated water table conditions. The modifications included installation of a dual-phase extraction and separation system, and modifications were completed during the period of October 1998 - March 1999. The SVE/AS system was activated on 9 March 1999 and continued operation until 16 July 1999, when the vapor-phase granular activated carbon (GAC)

emission treatment system became saturated. During the active SVE/AS period, approximately 600 lb of petroleum hydrocarbons were removed from the Site (EA 2000a). Additional *in-situ* treatment (i.e., biodegradation) due to enhanced oxygen delivery (both from active AS and vadose zone air entrainment) is likely to have occurred but was not quantified.

Following the rapid saturation of the vapor-phase GAC emission treatment system, the Navy performed an economic analysis of various remedial alternatives and identified excavation of residual source area soils followed by natural attenuation as the most suitable remedial strategy for the ONFF. During the interim period prior to remedial soil excavation (e.g., September 1999 to September 2000), the biosparging system was re-activated.

1.4.3 Remedial Soil Excavation Program

From 9 August 1999 to 2 September 1999, a direct-push investigation was completed to delineate the remaining petroleum-impacted source areas and to identify remedial excavation target areas (EA 2000c). The results of the direct-push investigation were used to identify areas for subsequent test pit excavation completed by FWE (FWE 2001). Based on the results of the direct-push and test pit sampling programs, excavation target areas were identified.

During the period of 11 September 2000 to 7 November 2000, FWE removed approximately 14,677 tons of petroleum-impacted soil from the Site. Confirmatory sampling results of the excavation bottom and sidewall samples indicated that residual petroleum-impacted soil remained on-Site at concentrations up to 840 milligrams per kilogram (mg/Kg) total petroleum hydrocarbon (TPH) (reported as cumulative TPH-diesel range organic (DRO) and TPH-gasoline range organic (GRO)).

During the test pitting and soil excavation process, the existing SVE/AS system field components were either removed from the Site or abandoned in-place. Existing monitoring wells and well points located within the ONFF fence line were decommissioned during 23-30 April 2001 in accordance with MEDEP Solid Waste Management Rules (EA 2001). Therefore, groundwater sampling events conducted after 30 April 2001 include one monitoring well upgradient of the Site, MW-NASB-062, and only monitoring wells located at or downgradient of the ONFF fence line. These monitoring wells are used to assess the potential for offsite migration of dissolved-phase petroleum compounds.

1.5 GROUNDWATER SAMPLING EVENTS

Following completion of the remedial soil excavation program, groundwater samples have been collected from monitoring wells located south of Avenue B, with the exception of upgradient well MW-NASB-062, during 14 events between December 2000 and October 2008 (EA 2004a, 2004b, 2004c, and 2004d). The purpose of the groundwater monitoring events was to evaluate potential migration of dissolved-phase petroleum downgradient from the ONFF. This report presents results from the 16 to 17 April 2008 groundwater sampling event (Round 16) and the 23 to 24 October 2008 groundwater sampling event (Round 17).

All groundwater sampling events have followed the Groundwater Monitoring Plan (GMP) (EA 2000a), as amended by monitoring event report project recommendations agreed to by MEDEP in written comment responses. The GMP listed 17 monitoring wells (MW-NASB-044, MW-NASB-046, MW-NASB-049, MW-NASB-051, MW-NASB-054, MW-NASB-058, MW-NASB-061R, MW-NASB-062, MW-NASB-098, MW-NASB-206, MW-NASB-207, MW-NASB-208, MW-NASB-209R, MW-NASB-210, MW-NASB-213, MW-NASB-244, and MW-NASB-245) to be sampled and gauged. In 2000, MW-NASB-044 was removed during the ONFF soil remedial actions. MW-NASB-044 was not replaced, as it was located in the source area within the ONFF, and the soil removal eliminated that source, as agreed to by MEDEP.

In 2003, to make way for the construction of a ball field at the ONFF, MW-NASB-054, MW-NASB-061R, and MW-NASB-213 were decommissioned. In 2003, MW-NASB-701, MW-NASB-702, and MW-NASB-703 were installed to further delineate the plume, as agreed to by MEDEP.

In the 2004 monitoring event report six monitoring wells, MW-NASB-046, MW-NASB-049, MW-NASB-206, MW-NASB-209R, MW-NASB-244, and MW-NASB-245, were recommended for gauging only, without any further sampling. The recommendation to eliminate sample collection from these six monitoring wells was agreed to by MEDEP.

In Fall 2007, snow removal operations irreparably damaged and made unusable MW-NASB-701 and MW-NASB-703.

The current monitoring well sampling list includes eight wells: MW-NASB-051, MW-NASB-058, MW-NASB-062, MW-NASB-098, MW-NASB-207, MW-NASB-208BR, MW-NASB-210, and MW-NASB-702.

1.6 REPORT ORGANIZATION

This Groundwater Monitoring Report details the findings, conclusions, and recommendations based on the April 2008 and October 2008 monitoring events. This section provides an introduction and background of the remedial and monitoring program activities at the Site. Section 2.0 details the April and October 2008 monitoring events. Section 3.0 presents the results of the April and October 2008 monitoring events. Section 4.0 presents conclusions and recommendations based on the results. Section 5.0 presents the reference material used to create this report. Graphs showing trends in analytical data results are presented in **Appendix A**. **Appendix B** includes the Field Record of Well Gauging, Purging, and Sampling Forms. The data validation memos and laboratory analytical results (MEDEP electronic data deliverables (EDDs) and Form I's) are provided in **Appendix C**. **Appendix D** includes the original list of monitoring wells in the GMP (EA 2000a), prior to revisions described in Section 1.5, and rationale for inclusion into the monitoring program. This list has since been revised as described in Section 1.5. **Appendix E** includes the Navy's responses to regulator comments and follow-up comments, which will be included with the final report.

2.0 MONITORING PLAN

2.1 GROUNDWATER MONITORING

2.1.1 Sampling Locations

Eight of the 16 monitoring wells located on the Site were sampled between 16 and 17 April 2008, and again between 23 and 24 October 2008: MW-NASB-051, MW-NASB-058, MW-NASB-062, MW-NASB-098, MW-NASB-207, MW-NASB-208BR, MW-NASB-210, and MW-NAS-B-702. See **Figure 1-2** for the well locations.

2.1.2 Groundwater Sampling Program

Prior to sampling, measurement and recording of groundwater elevations was conducted at the operational 14 Site wells in April 2008 and October 2008. Groundwater monitoring wells MW-NASB-701 and MW-NASB-703 were damaged by snow removal activities and were not gauged or sampled during the 2008 events. **Appendix D** includes GMP (EA 2000a) Table 2 (Ground-Water Monitoring Plan Well Selection Summary Old Navy Fuel Farm, Naval Air Station, Brunswick, Maine), which presents the rationale for inclusion in the monitoring program of the original list of monitoring wells in the GMP (EA 2000a), prior to the GMP revisions described in Section 1.5. **Table 2-1** provides a summary of the current monitoring program for ONFF.

An oil/water interface probe was utilized to assess the presence or absence of light, non-aqueous phase liquid (LNAPL) on the groundwater surface. During both the April 2008 and October 2008 sampling events, no LNAPL was detected in the groundwater monitoring wells at the Site.

During the sampling events, one groundwater sample was collected via low-flow sampling methods from each of the groundwater monitoring wells listed in **Table 2-1.** All monitoring wells were sampled in accordance with the *Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (United States Environmental Protection Agency (EPA) 1996). Sampling was completed using a Grundfos® pump with dedicated tubing.

Prior to purging, the initial static water level was measured in the well using a water-level indicator. During purging, the water level was measured every 3 to 10 minutes.

During purging, water quality parameters (pH, turbidity, specific conductance (SpC), temperature, oxidation-reduction potential (ORP) and dissolved oxygen (DO)) were measured and recorded every 3 to 10 minutes using a water quality meter and flow-through cell until stabilization and the minimum purge volume (equal to the stabilized drawdown volume plus the tubing volume) was removed. Stabilization of the above parameters was defined as follows:

- pH ± 10% standard units (SU)
- turbidity < 10 nephelometric turbidity unit (NTU)
- SpC ± 10 % microsiemens per centimeter (μS/cm)

- ORP ± 10% millivolt (mV)
- DO ± 10 % milligrams per liter (mg/L)

Instruments used to monitor stabilization parameters were calibrated daily before sampling and instrument readings were checked at the end of the day against the calibration standards. It should be noted that salinity was not recorded on the calibration logs, as this reading, measured with the conductivity probe, is reflected in the record of specific conductance (SpC).

Following purging, the well tubing was removed from the flow-through cell and samples were collected directly from the discharge end of the tubing. All sample containers were filled by allowing the discharge to flow gently down the inside of the container with minimal turbulence. One duplicate sample and one Matrix Spike/Matrix Spike Duplicate sample (MS/MSD) was collected from monitoring well MW-NASB-098 during each of the April 2008 and October 2008 sampling events. One rinsate blank was collected from the non-dedicated Grundfos® pump, during each of the April 2008 and October 2008 sampling events. Three trip blanks, for volatile organic compounds (VOCs), methane, and TPH-GRO, were collected and analyzed per sample shipment to the laboratory to document the potential introduction of contaminants during sample shipment and evaluate potential cross-contamination of the samples.

2.1.3 Sampling Parameters

The groundwater samples collected were analyzed for the following by Katahdin Laboratory, which is a Navy approved and Maine certified laboratory;

- Select VOCs (BTEX and MTBE) by U.S. Environmental Protection Agency (EPA) Method 8260B.
- TPHs by Department of Human Services Health and Environmental Testing Laboratory, State of Maine (ME HETL) Method 4.1.25 (DRO).
- Select October 2008 TPH-DRO samples (MW-NASB-062, MW-NASB-208R, MW-NASB-210, and MW-NASB-702) split and subjected to a packed silica gel treatment per the Alaska Method AK102.
- TPHs by ME HETL Method 4.2.17 (GRO) (analyzed only for sample location MW-702.
- Ethylene Dibromide (EDB) by EPA 504.1.
- Monitored Natural Attenuation (MNA) Parameters:
  - Methane by EPA Region 1 Method
  - Alkalinity by EPA Method 310.1
  - Nitrate by EPA Method 353.2
  - Sulfate by EPA Method 375.4
  - Total Organic Carbon (TOC) by EPA Method 415.1
  - Ferrous Iron by SM 3500 Fe D

The analytical results of groundwater samples collected during these two sampling events were compared to the Maine Department of Human Services (MEDHS) Maximum Exposure Guidelines (MEGs) to assess whether there were any exceedances. Laboratory analytical results

are provided in **Appendix C**. The laboratory analytical results are presented as laboratory data reporting sheets (Form I's) and in the MEDEP EDD format.

2.2 DECONTAMINATION AND INVESTIGATION – DERIVED WASTE

All water quality meters and water level meters were decontaminated by washing the instruments with Alconox® and rinsing with deionized water prior to and after use. Liquid investigative-derived waste (IDW) from sampling of the groundwater at each of the ONFF wells was pumped into 5-gallon buckets during sampling activities. The buckets were taken to Building 50 (the groundwater treatment plant) for disposal. IDW was mixed with the influent plant water and cycled through the groundwater treatment plant.

3.0 SAMPLING RESULTS

3.1 WATER LEVEL GAUGING PROGRAM

During the April 2008 and October 2008 sampling events, monitoring wells at the Site were gauged prior to sampling as presented in Section 2.1.2. Interpretive groundwater table contour maps were developed from the April 2008 and October 2008 gauging data. The gauging data from both sampling events are presented in **Table 3-1**. The interpreted groundwater table contour maps are independently based upon the water levels recorded during each corresponding sampling event and are presented in **Figure 3-1** for the April 2008 gauging data and in **Figure 3-2** for the October 2008 gauging data.

3.2 GROUNDWATER MONITORING

A summary of groundwater water quality data (discussed in Section 2.1.2) is provided in **Table 3-2**. The following sub-sections summarize the results from the April and October 2008 sampling events.

3.2.1 Volatile Organic Compounds

April 2008 Monitoring Event

There were no VOCs detected in the eight groundwater samples tested. A summary of the VOC groundwater data for the April 2008 sampling event is presented in **Table 3-3**.

October 2008 Monitoring Event

There were no VOCs detected in the eight groundwater samples tested. A summary of the VOC groundwater data for the October 2008 sampling event is presented in **Table 3-4**.

3.2.2 Total Petroleum Hydrocarbons

The TPH (TPH-DRO and TPH-GRO) results for the April and October 2008 sampling events are shown on **Figure 3-3** and are discussed in the following subsections.

3.2.2.1 Total Petroleum Hydrocarbons – Diesel Range Organics

April 2008 Monitoring Event

All eight wells were sampled for TPH-DRO during the April 2008 sampling event. Dissolved-phase TPH-DRO was reported in four field samples and one field duplicate sample of the nine groundwater samples collected (eight field samples and one field duplicate). Two samples reported concentrations of TPH-DRO exceeding the MEG of 50 µg/L. These included MW-NASB-208BR (95 µg/l) and MW-NASB-210 (60 µg/l). **Table 3-3** presents a summary of the analytical data for the April 2008 sampling event.

October 2008 Monitoring Event

All eight wells were sampled for TPH-DRO during the October 2008 sampling event. Dissolved-phase TPH-DRO was reported in all nine groundwater samples collected (eight field samples and one field duplicate). Four field samples and one field duplicate sample reported concentrations of TPH-DRO exceeding the MEG of 50 µg/L. These included MW-NASB-098 (57 J µg/L), the field duplicate of MW-NASB-098 (56 µg/L), MW-NASB-208BR (100 µg/L), MW-NASB-210 (67 µg/L), and MW-NASB-702 (1,800 µg/L).

The extract from four TPH-DRO samples (MW-NASB-062, MW-NASB-208BR, MW-NASB-210, and MW-NASB-702) was split and then subjected to packed column silica gel treatment before TPH-DRO analysis, during the October 2008 sampling event to determine if levels of TPH detected in these samples might be biased high by polar organic carbon compounds in the samples, which may be from naturally occurring organic carbon compounds. Silica gel was used to remove polar organic compounds from select sample extracts, because polar organic compounds and DRO both are extractable and detectable by the DRO analysis method (ME HETL Method 4.1.25). Polar organic compounds have a similar chromatographic retention time as DRO, so there is a potential for misidentification of polar organic compounds as DRO. The silica gel has polar sites, which adsorb polar organic compounds while allowing non-polar DRO compounds to pass through the column. Three split samples (MW-NASB-062, MW-NASB-208BR, and MW-NASB-210), had TPH-DRO detections, 35 µg/L J, 100 µg/L, and 67 µg/L respectively, in the extract not treated by silica gel. After being subjected to silica gel treatment, results indicated that TPH-DRO levels were below laboratory method detection limits (MDLs) for all three split samples. MW-NASB-702 had a TPH-DRO concentration of 1,800 µg/L (not treated), but after silica gel treatment the reported TPH-DRO concentration was 62 J µg/L. MW-NASB-062 is the upgradient monitoring well, and the silica gel treated DRO sample result shows that the groundwater entering the Site is non-detect for DRO. MW-NASB-210 is cross-gradient to the Site, and the silica gel DRO results show that the groundwater cross-gradient to the Site is also non-detect for DRO.

Table 3-4 presents a summary of the TPH-DRO groundwater data before and after silica gel treatment for the October 2008 sampling event.

3.2.2.2 Total Petroleum Hydrocarbons – Gasoline Range Organics

April 2008 Monitoring Event

One of the eight wells, MW-NASB-702, was sampled for TPH-GRO during the April 2008 sampling event. TPH-GRO results were below MDLs in this sample. **Table 3-3** presents a summary of the analytical data for the April 2008 sampling event.

October 2008 Monitoring Event

One of the eight wells, MW-NASB-702, was sampled for TPH-GRO during the October 2008 sampling event. TPH-GRO results were below MDLs in this sample. **Table 3-4** presents a summary of the analytical data for the October 2008 sampling event.

3.2.3 Monitored Natural Attenuation Parameters

Groundwater samples were analyzed for MNA parameters during the April 2008 and October 2008 sampling events at the ONFF to support evaluation of MNA as a continuing remedy for groundwater contaminants at the ONFF. Components of the MNA analysis included alkalinity, nitrate, sulfate, TOC, ferrous iron, and methane. This report will present the MNA data collected and discuss the results, but it is not intended to be a formal MNA evaluation. The MNA parameter data is presented in **Tables 3-3** and **3-4**.

3.2.3.1 Alkalinity

April 2008 Monitoring Event

Detected concentrations of alkalinity were found in all samples at concentrations ranging from 14 mg/L to 170 mg/L. The highest concentrations were reported in wells MW-NASB-207 (120 mg/L) and MW-NASB-208BR (170 mg/L). A field duplicate sample was collected from well MW-NASB-098. The primary and duplicate samples both reported concentrations of 25 mg/L. The relative percent difference (RPD) was 0%.

October 2008 Monitoring Event

Detected concentrations of alkalinity were found in all samples at concentrations ranging from 11 mg/L to 170 mg/L. The highest concentrations were reported in wells MW-NASB-207 (110 mg/L) and MW-NASB-208BR (170 mg/L). A field duplicate sample was collected from well MW-NASB-098. The primary and duplicate samples reported concentrations of 21 J mg/L and 14 mg/L, respectively. The RPD was 40.0%.

3.2.3.2 Nitrate

April 2008 Monitoring Event

Four of the eight groundwater samples reported concentrations of nitrate. These included MW-NASB-58 (0.24 mg/L), MW-NASB-207 (0.19 mg/L), MW-NASB-210 (1.3 mg/L), and MW-NASB-702 (0.51 mg/L).

October 2008 Monitoring Event

Two of the eight groundwater samples reported concentrations of nitrate. These included wells MW-NASB-210 (0.95 mg/L), and MW-NASB-702 (0.19 mg/L).

3.2.3.3 Sulfate

April 2008 Monitoring Event

Detected concentrations of sulfate were found in seven of the eight groundwater samples ranging from concentrations of 3.2 mg/L to 18 mg/L. The highest concentrations were detected in wells MW-NASB-210 (18 mg/L) and MW-NASB-98 (9.9 mg/L). A field duplicate sample was

collected from well MW-NASB-098. The primary and duplicate samples reported concentrations of 9.8 mg/L and 9.9 mg/L, respectively. The RPD was 1.0%.

October 2008 Monitoring Event

Detected concentrations of sulfate were found in all eight groundwater samples ranging from 3.3 mg/L to 15 mg/L. The highest concentrations were detected in wells MW-NASB-210 (15 mg/L) and MW-NASB-058 (14 mg/L). A field duplicate sample was collected from well MW-NASB-098. The primary and duplicate samples both reported concentrations of 12 mg/L. The RPD was 0%.

3.2.3.4 Total Organic Carbon

April 2008 Monitoring Events

Dissolved-phase TOC was reported in all of the groundwater samples with concentrations ranging from 1.4 mg/L to 8.6 mg/L. The highest concentrations were detected in wells MW-NASB-702 (8.6 mg/L) and MW-NASB-210 (7.6 mg/L). A field duplicate sample was collected at well MW-NASB-098, with concentrations of 2.5 mg/L and 2.4 mg/L reported in the primary and duplicate samples, respectively. The RPD was 4.1%.

October 2008 Monitoring Event

TOC may be comprised of polar organic compounds. Polar organic compounds have a similar chromatographic retention time as DRO, as analyzed by ME HETL Method 4.1.25. Polar organic compounds may cause DRO levels to be high-biased or lead to a potential for misidentification of polar organic compounds as DRO.

Dissolved-phase TOC was reported in all of the groundwater samples with concentrations ranging from 1.4 mg/L to 19 mg/L. The highest concentrations were detected in wells MW-NASB-702 (19 mg/L) and MW-NASB-210 (8.9 mg/L). A field duplicate sample was collected at well MW-NASB-098, with concentrations of 2.4 mg/L and 2.5 mg/L reported in the primary and duplicate samples, respectively. The RPD was 4.1%.

3.2.3.5 Iron

April 2008 Monitoring Event

Ferrous iron was reported in seven of the eight groundwater samples ranging from 0.12 mg/L to 15.1 mg/L. The highest concentration of iron was detected in the sample collected from monitoring well MW-NASB-208BR (15.1 mg/L). A field duplicate sample was collected at well MW-NASB-098, with concentrations of 1.6 mg/L in both the primary and duplicate sample. The RPD was 0%.

October 2008 Monitoring Event

Ferrous iron was reported in seven of the eight groundwater samples ranging from 0.16 mg/L to 18 mg/L. The highest concentration of iron was detected in the sample collected from monitoring well MW-NASB-208BR (18 mg/L). A field duplicate sample was collected at well MW-NASB-

098, with concentrations of 3.1 mg/L and 3.2 mg/L reported in the primary and duplicate samples, respectively. The RPD was 3.2%.

3.2.3.6 Methane

April 2008 Monitoring Event

Methane was reported in three of the eight groundwater samples with concentrations ranging from 11 µg/L to 4,600 µg/L. The highest concentration was reported in the sample collected from well MW-NASB-208BR (4,600 µg/L). A field duplicate sample was collected at well MW-NASB-098, with concentrations of 890 µg/L and 1100 µg/L reported in the primary and duplicate samples, respectively. The RPD was 21.1%.

October 2008 Monitoring Event

Methane was reported in six of the eight groundwater samples ranging from 10 µg/L to 5,700 µg/L. The highest concentration was detected in the sample collected from well MW-NASB-208BR (5,700 µg/L). A field duplicate sample was collected from well MW-NASB-098. A field duplicate sample was collected from well MW-NASB-098. The primary and duplicate samples both had concentrations of 1,600 µg/L. The RPD was 0%.

3.2.4 Ethylene Dibromide

April 2008 Monitoring Event

EDB was not sampled at the Site during April 2008, as EDB is not part of the GMP.

October 2008 Monitoring Event

EDB was sampled for the first time at the Site at all eight Site wells, during the October 2008 sampling event at the request of MEDEP. EDB was not detected at any Site monitoring well, and EDB will no longer be requested in the sampling analyses.

3.3 DATA QUALITY REVIEW

April 2008 Monitoring Event

The April 2008 data validation reports are presented in **Appendix C**. This section will summarize the tripblank, rinsate blank, MS/MSD, and field duplicate results. The VOC and GRO trip blank was non-detect for any compound. The methane trip blank had a methane detection, which resulted in methane results from MW-NASB-051, MW-NASB-702, MW-NASB-207, and MW-NASB-210 being qualified as non-detect (U). The rinsate blank was non-detect for VOCs, DRO, and GRO, which shows that proper equipment decontamination procedures were followed. The MS/MSD results for all parameters were within limits, which indicate that there were no matrix interferences. The field duplicate results were within limits, which show that samples were collected in a reproducible manner.

October 2008 Monitoring Event

The October 2008 data validation reports are presented in **Appendix C**. The VOC, EDB, and GRO tripblank was non-detect for any compound. The methane tripblank had a methane detection, which resulted in the methane results from MW-NASB-098 and MW-NASB-210 being qualified as non-detect (U). The rinsate blank was non-detect for VOCs, DRO, EDB, and GRO, which shows that proper equipment decontamination procedures were followed. The MS/MSD results for all parameters were within limits, except for the VOC and DRO results for MW-NASB-098, which were outside limits. The field duplicate results were within limits, which show that samples were collected in a reproducible manner, except for alkalinity at MW-NASB-098.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

4.1.1 Water Level Gauging Program

The results of the water level gauging completed during April 2008 and October 2008 indicate that the shallow groundwater flow direction is generally toward the east to southeast across the Site at an approximate rate of 0.07 feet per day. LNAPL was not present in the groundwater monitoring wells gauged during either of these sampling events.

4.1.2 Groundwater Monitoring and Sampling Program

The results of the groundwater sampling and analysis program conducted during the April 2008 and October 2008 sampling events identified the following:

- There were no exceedances of the applicable MEGs for VOCs. The analytical data indicate that VOC concentrations have remained stable at levels below MDLs during the last 17 sampling events, and that dissolved-phase VOC concentrations downgradient from the ONFF are not detected above MDLs.

- TPH-GRO was below MDLs during the April and October 2008 sampling events, which is consistent with the results for VOCs from previous events.

- Dissolved-phase TPH-DRO was detected in five of the eight wells sampled in April 2008 and was detected in all eight wells sampled in October 2008. An apparent spike of elevated TPH-DRO concentrations was reported at monitoring well MW-NASB-702 during the October 2008 event. Monitoring well groundwater samples obtained from locations upgradient to the ONFF (MW-NASB-62), cross-gradient to the ONFF (MW-NASB-210), downgradient of the ONFF (MW-NASB-208BR), and at the boundary of the ONFF (MW-MASB-702) were subjected to silica gel treatment to remove polar compounds from the DRO sample. Only the DRO detection from MW-NASB-702 did not result in a non-detect value once subjected to silica get treatment.

  Furthermore, there was a significant presence of dissolved-phase TOC at each of the sampling locations, indicating the potential for non-petroleum organic matter to have been a false positive for TPH-DRO. The extract from four TPH-DRO samples (MW-NASB-062, MW-NASB-208BR, MW-NASB-210, and MW-NASB-702) was split and then subjected to silica gel treatment before TPH-DRO analysis, during the October 2008 sampling event to determine if levels of TPH detected in these samples might be high biased due to naturally occurring carbon in the samples. Three of the split samples (MW-NASB-208BR, MW-NASB-210, and MW-NASB-702) subjected to silica gel treatment, which had detections of TPH-DRO above MDLs in the untreated sample, were reported below MDLs after treatment. MW-NASB-702, which had TPH-DRO concentration of 1,800 µg/L in the untreated sample, reported a TPH-DRO concentration of 62 J µg/L

after silica gel treatment. The reduction in TPH-DRO levels after silica gel treatment strongly suggest that current and past TPH-DRO method results may be high-biased due to non-TPH polar compounds associated with polar organic compounds.

- The effectiveness of natural attenuation for mitigating residual petroleum hydrocarbons at the ONFF is evidenced by the analytical trend data for BTEX and TPH-GRO. The trend data for TPH-DRO is less clear, possibly due to interference from TOC.

- In addition to the analytical trend data, water quality indicator parameters continue to demonstrate a large demand for electron acceptors (particularly oxygen) within the residual petroleum impacted area, as evidenced by downgradient water quality parameter measurements. The reduction in electron acceptor concentrations, coupled with the concurrent production of metabolic end products like methane, support the conclusion that biodegradation of residual petroleum compounds is occurring. This conclusion is further evidenced by the overall downgradient monitoring well sampling results, which based on the data from the last few years, demonstrate that the hydrocarbon plumes have reached steady state and that offsite migration of hydrocarbon compounds is effectively prevented by natural attenuation mechanisms.

- The groundwater data from this reporting period support the conclusion of the February 2002 BIOSCREEN® Modeling of TPH at the ONFF (EA 2002) that the plume has reached steady state and that further migration is not likely to occur.

- In October 2008, at the request of MEDEP, the groundwater samples from all eight monitoring wells were analyzed for EDB and all locations were non-detect.

4.2 RECOMMENDATIONS

The following recommendations are based on the results of April 2008 and October 2008 sampling events:

- Discontinue groundwater monitoring of VOCs (BTEX and MTBE) from the existing monitoring wells, since groundwater data collected at the Site since July 1996 (**Table 4-1**) indicate that these organic compounds are consistently reported at concentrations below the respective MDLs and, therefore, below MEGs.

- Continue groundwater monitoring of dissolved-phase TPH-DRO and include split samples with silica gel cleanup for all samples and/or other analytical methods to evaluate the potential for interference from non-petroleum organic matter. If MEDEP adopts the Massachusetts Department of Environmental Protection (MADEP) Extractable Petroleum Hydrocarbon (EPH) (MADEP-EPH), analytical method for analysis of DRO, then it should be used in future sampling events, as it has a fractionation step that removes polar organics compounds from non-polar EPH constituents in a groundwater sample.

- Reduce or eliminate the frequency of MNA sample collection and analysis from twice a year to once every two years. The MNA data collected from the last 10 rounds support the conclusion that biodegradation of dissolved-phase petroleum compounds in groundwater is occurring.

- Conduct an investigation at the ONFF to evaluate residual petroleum impacts and natural attenuation progress at historic release areas, including locations where remedial excavation has been conducted.

- Since EDB was not detected above MDLs in any sample, no future sampling events should include EDB in the analyses.

- Decommission MW-NASB-701 and MW-NASB-703, as they are no longer usable.

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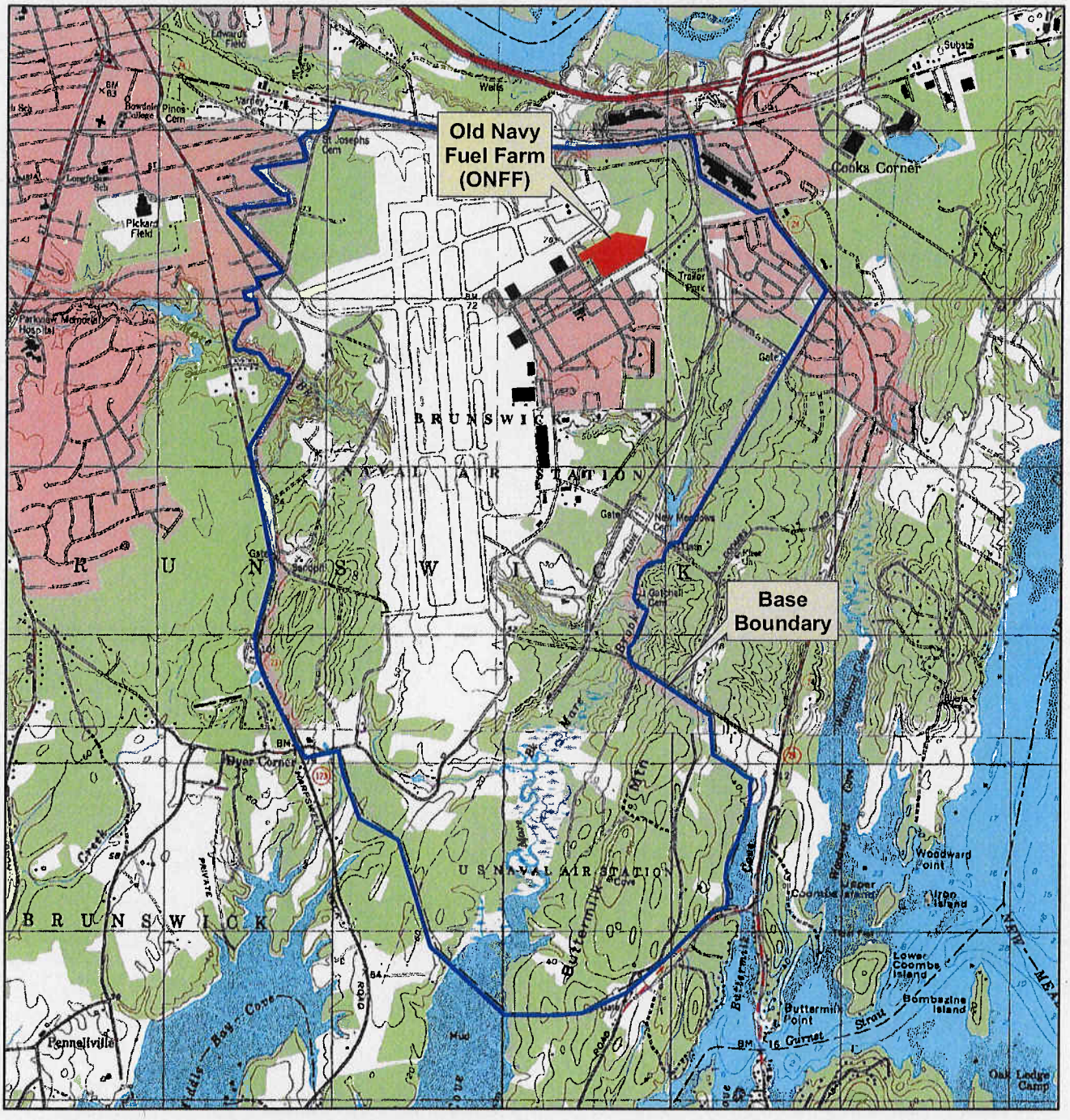
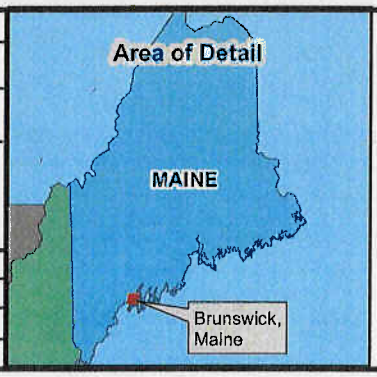
FIGURES



Contract. No.	N62472-02-D-0810
Description	Old Navy Fule Farm (ONFF) Site Location
Coordinate system	NAD 1983, UTM, Zone 19 N in meters
Sources	NavalBase Boundary provided by Navy.

Date	27-MAR-2009	Rev.	Date	App. By
DB	C. Guido			
CB	J. Gatherer			
AB				



Legend

- NASB Brunswick Boundary
- ONFF (Site)

Figure 1-1

Site Location Old Navy Fuel Farm

Naval Air Station
Brunswick, Maine

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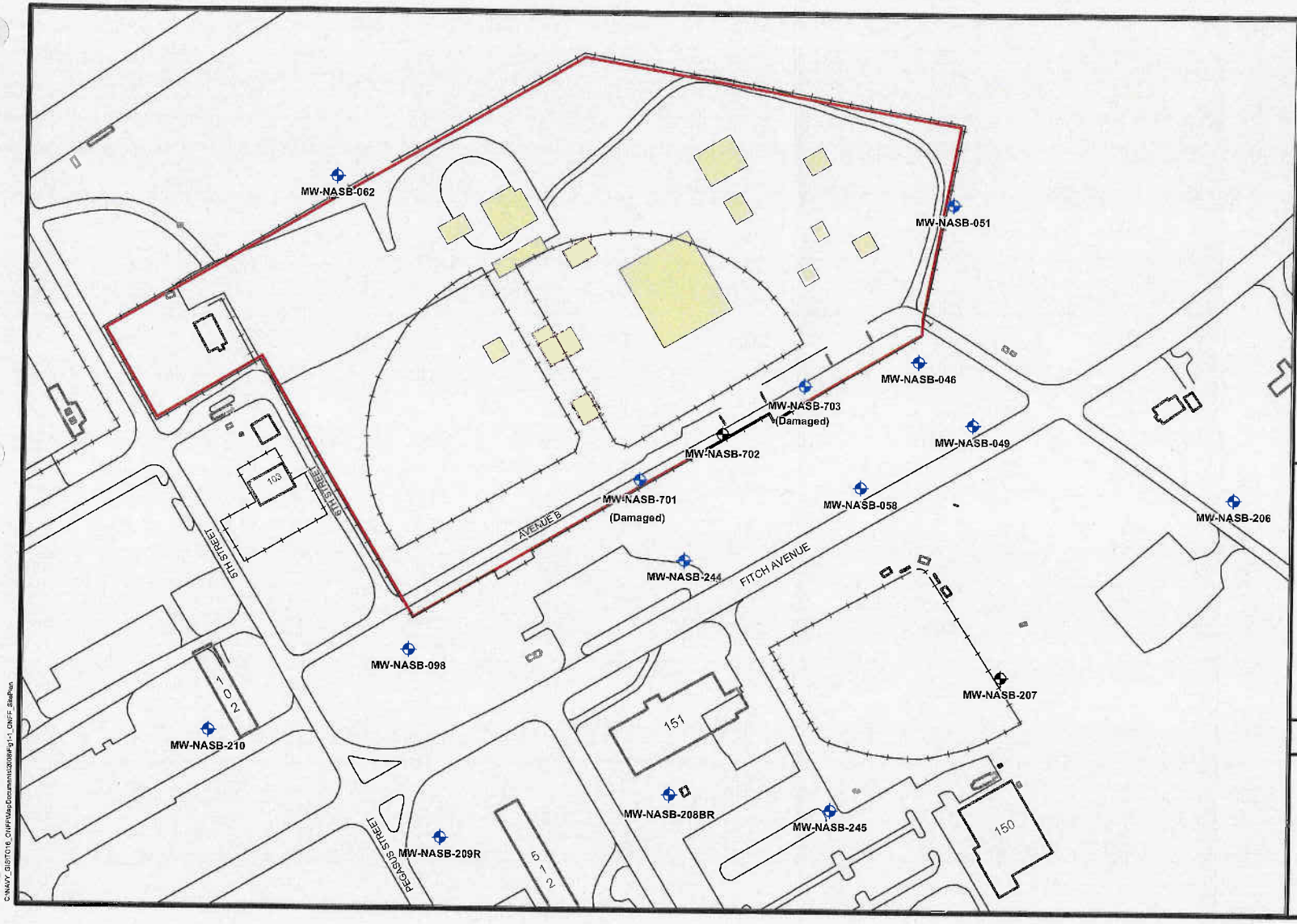
0 800 1,600 3,200 Feet



Contract No.	N62472-02-D-0810
Description	ONFF, NAS Brunswick, ME
Coordinate System	NAD 1983, UTM, Zone 19 N in meters
Sources	Naval Base Boundary provided by Navy.

Date	10-MAR-2009	Rev.	Date	Approved
Drawn	C. Guido			
Checked	J. Gatherer			
Approved				

Legend

- Monitoring Well
- Fence
- ONFF Extent of Excavation
- Site Boundary

0 75 150 300 Feet

AREA OF DETAIL

Figure 1-2

Site Plan
Old Navy Fuel Farm

Naval Air Station
Brunswick, Maine

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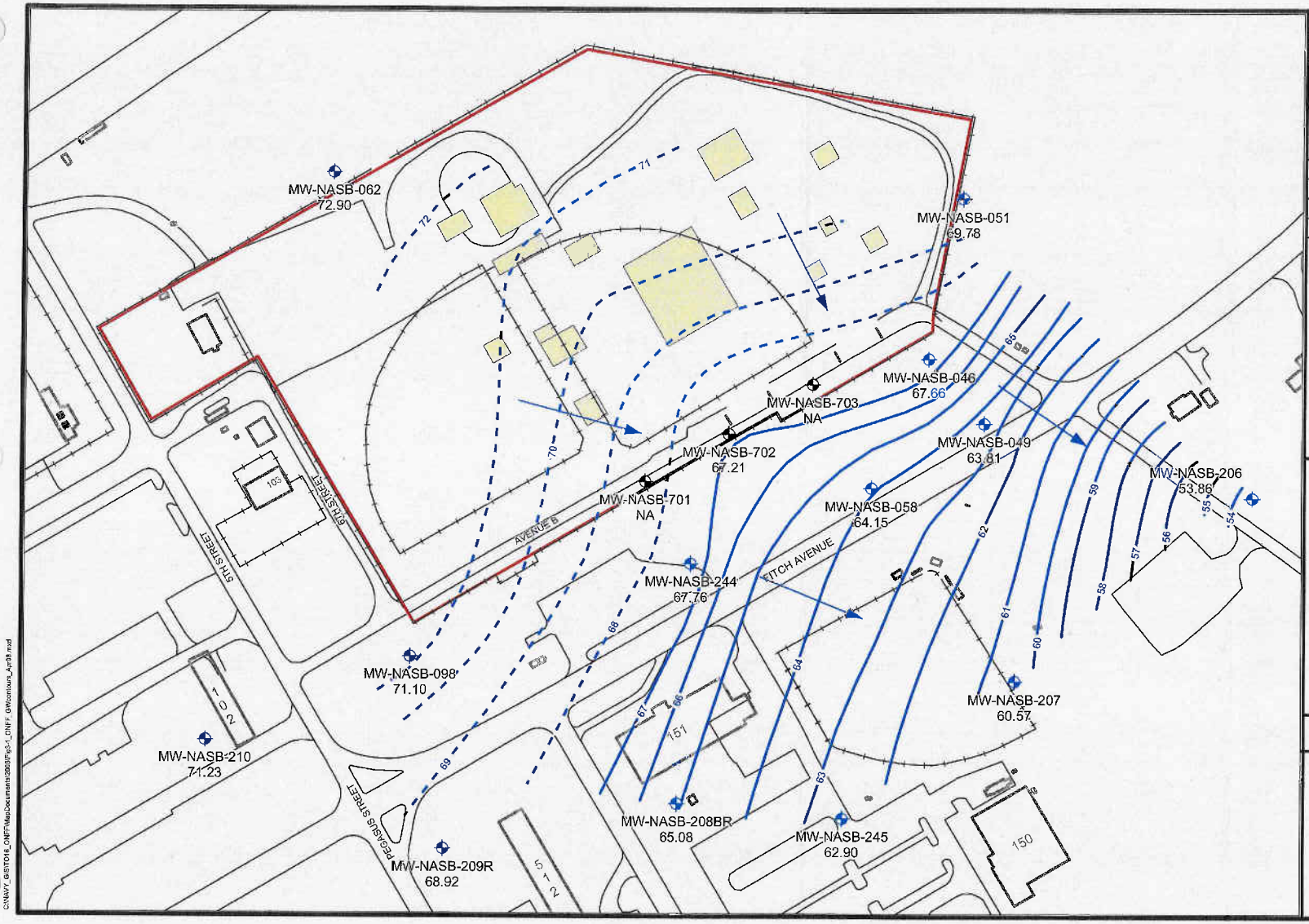

Contract No.	N62472-02-D-0810
Description	ONFF, NAS Brunswick, ME
Coordinate System	NAD 1983, UTM, Zone 19 N in meters
Sources	Naval Base Boundary provided by Navy.

Date	27-MAR-2009	Rev.	Date	Approved
Drawn	C. Guido			
Checked				
Approved				

Legend

- Monitoring Well
- Groundwater Contour (ft NAVD 88)
- Inferred Groundwater Contour (ft NAVD 88)
- Fence
- Site Boundary
- ONFF Extent of Excavation
- Inferred Groundwater Flow Direction

0 75 150 300 Feet

AREA OF DETAIL

Figure 3-1

Groundwater Surface Map April 2008 Old Navy Fuel Farm

Naval Air Station Brunswick, Maine

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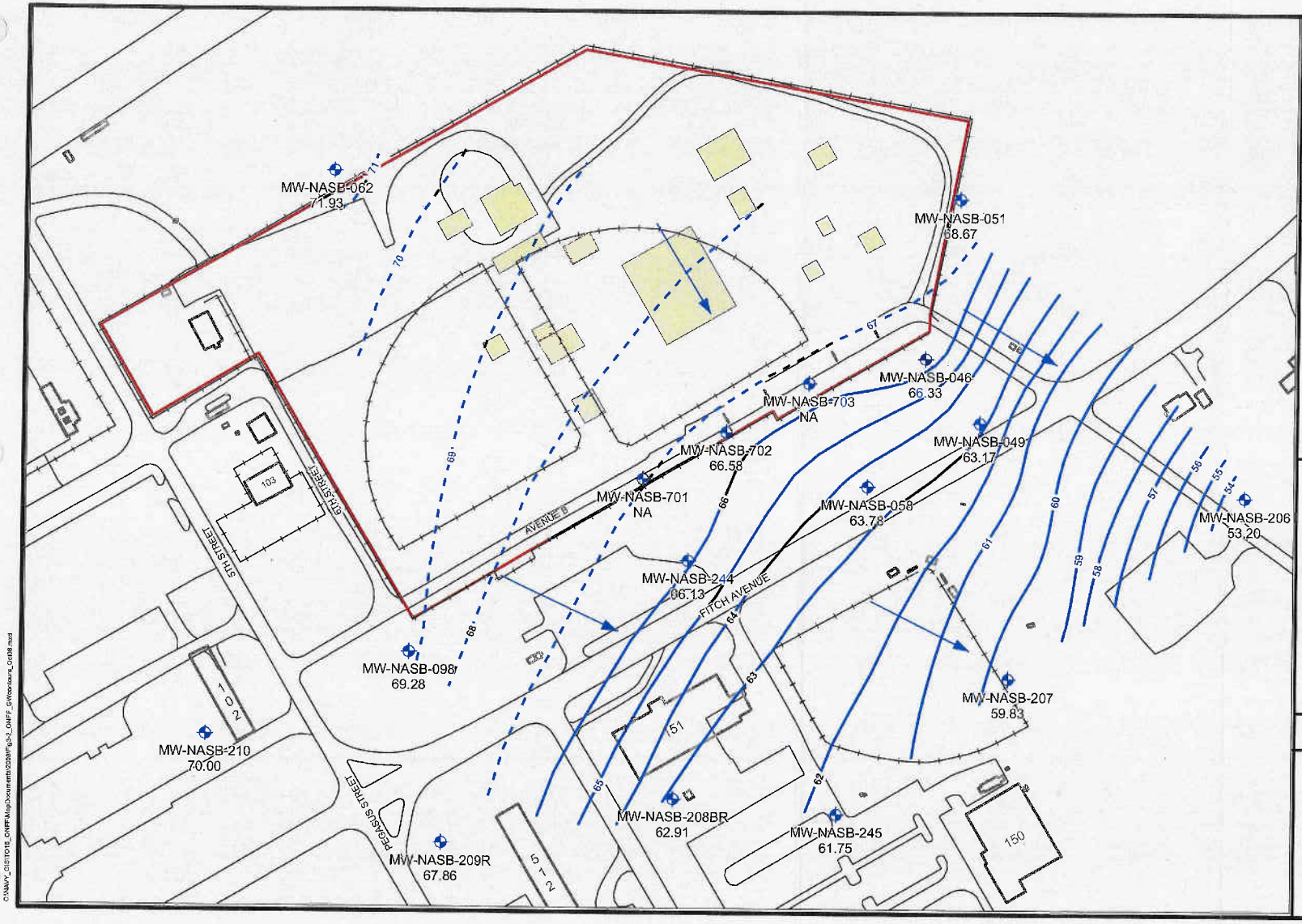

Contract No.	N62472-02-D-0810
Description	ONFF, NAS Brunswick, ME
Coordinate System	NAD 1983, UTM, Zone 19 N in meters
Sources	Naval Base Boundary provided by Navy.

Date	27-APR-2009	Rev.	Date	Approved
Drawn	C. Guido			
Checked	J. Kiker			
Approved				

Legend

- Monitoring Well
- Groundwater Contour (ft NAVD 88)
- Inferred Groundwater Contour (ft NAVD 88)
- Fence
- Site Boundary
- ONFF Extent of Excavation
- Inferred Groundwater Flow Direction

0 75 150 300 Feet

AREA OF DETAIL

Figure 3-2

Groundwater Surface Map October 2008 Old Navy Fuel Farm

Naval Air Station Brunswick, Maine

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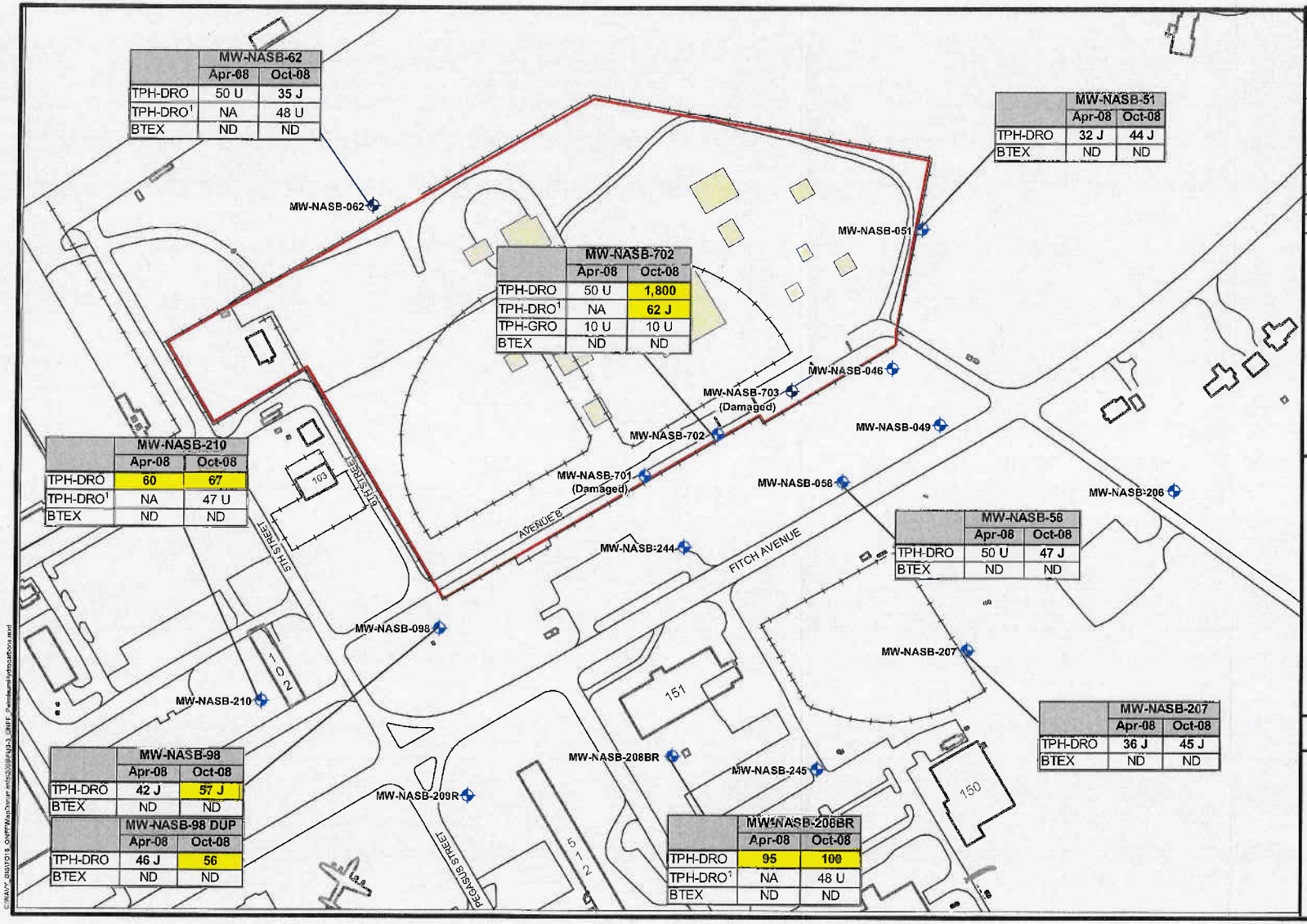


	MW-NASB-62	
	Apr-08	Oct-08
TPH-DRO	50 U	35 J
TPH-DRO[1]	NA	48 U
BTEX	ND	ND

	MW-NASB-51	
	Apr-08	Oct-08
TPH-DRO	32 J	44 J
BTEX	ND	ND

	MW-NASB-702	
	Apr-08	Oct-08
TPH-DRO	50 U	1,800
TPH-DRO[1]	NA	62 J
TPH-GRO	10 U	10 U
BTEX	ND	ND

	MW-NASB-210	
	Apr-08	Oct-08
TPH-DRO	60	67
TPH-DRO[1]	NA	47 U
BTEX	ND	ND

	MW-NASB-58	
	Apr-08	Oct-08
TPH-DRO	50 U	47 J
BTEX	ND	ND

	MW-NASB-98	
	Apr-08	Oct-08
TPH-DRO	42 J	57 J
BTEX	ND	ND

	MW-NASB-98 DUP	
	Apr-08	Oct-08
TPH-DRO	46 J	56
BTEX	ND	ND

	MW-NASB-207	
	Apr-08	Oct-08
TPH-DRO	36 J	45 J
BTEX	ND	ND

	MW-NASB-208BR	
	Apr-08	Oct-08
TPH-DRO	95	100
TPH-DRO[1]	NA	48 U
BTEX	ND	ND

Contract No.	N62472-02-D-0810
Description	ONFF, NAS Brunswick, ME
Coordinate System	NAD 1983, UTM, Zone 19 N in meters
Sources	Naval Base Boundary provided by Navy.

Date	27-APR-2009	Rev.	Date	Approved
Drawn	C. Guido			
Checked	J. Kiker			
Approved				

Legend

- Monitoring Well
- Fence
- ONFF Extent of Excavation
- Site Boundary

0 75 150 300 Feet

Chem Box Legend

U	Non-Detect
J	Estimated
NA	Not Applicable
ND	Non-Detect
NS	Not Sampled (Well Damaged)
ug/L	Units (microgram per liter)
BOLD	Detection
TPH	Total Petroleum Hydrocarbon
DRO	Diesel Range Organic
GRO	Gasoline Range Organic
DRO[1]	DRO with Silica Gel Treatment
	Exceedence (50 ug/L)

Figure 3-3

Summary of Groundwater Sampling Results for TPH April and October 2008

Naval Air Station
Brunswick, Maine

TABLES

TABLE 2-1
SUMMARY OF CURRENT MONITORING PROGRAM
OLD NAVY FUEL FARM
NAVAL AIR STATION BRUNSWICK, MAINE

Well SampleLocation Name	Monitoring Frequency	Gauging	SAMPLING PARAMETERS			
			VOCs	DRO	GRO	MNA Parameters
MW-NASB-46	Twice per year (Spring/Fall)	X	NR	NR	NR	NR
MW-NASB-49	Twice per year (Spring/Fall)	X	NR	NR	NR	NR
MW-NASB-51	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-58	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-62	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-98	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-206	Twice per year (Spring/Fall)	X	NR	NR	NR	NR
MW-NASB-207	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-208BR	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-209R	Twice per year (Spring/Fall)	X	NR	NR	NR	NR
MW-NASB-210	Twice per year (Spring/Fall)	X	X	X	NR	X
MW-NASB-244	Twice per year (Spring/Fall)	X	NR	NR	NR	NR
MW-NASB-245	Twice per year (Spring/Fall)	X	NR	NR	NR	NR
MW-NASB-701[1]	Twice per year (Spring/Fall)	X	X	X	X	X
MW-NASB-702	Twice per year (Spring/Fall)	X	X	X	X	X
MW-NASB-703[1]	Twice per year (Spring/Fall)	X	X	X	X	X

Notes:
1 - MW-NASB-701 and MW-NASB-703 were not sampled due to previous damage caused by a snow plow.
DRO = diesel range organic
GRO = gasoline range organic
MNA = monitored natural attenuation
NR = not required
VOC = volatile organic compound

TABLE 3-1
GROUNDWATER MEASUREMENTS AND ELEVATIONS
FOR 2008 GAUGING EVENTS
OLD NAVY FUEL FARM
NAVAL AIR STATION BRUNSWICK

		April 2008			October 2008		
Location	Measuring Point Elevation (ft NAVD 88)	Date	Depth to Water[1] (ft)	Groundwater Elevation (ft NAVD 88)	Date	Depth to Water[1] (ft)	Groundwater Elevation (ft NAVD 88)
MW-NASB-046	71.30	4/15/08	3.64	67.66	10/23/08	4.97	66.33
MW-NASB-049	68.29	4/15/08	4.48	63.81	10/23/08	5.12	63.17
MW-NASB-051	73.41	4/15/08	3.63	69.78	10/23/08	4.74	68.67
MW-NASB-058	69.80	4/15/08	5.65	64.15	10/23/08	6.02	63.78
MW-NASB-062	80.73	4/15/08	7.83	72.90	10/23/08	8.80	71.93
MW-NASB-098	76.53	4/15/08	5.43	71.10	10/23/08	7.25	69.28
MW-NASB-206	59.01	4/15/08	5.15	53.86	10/23/08	5.81	53.20
MW-NASB-207	66.22	4/15/08	5.65	60.57	10/23/08	6.39	59.83
MW-NASB-208BR	69.85	4/15/08	4.77	65.08	10/23/08	6.94	62.91
MW-NASB-209R	72.94	4/15/08	4.02	68.92	10/23/08	5.08	67.86
MW-NASB-210	77.55	4/15/08	6.32	71.23	10/23/08	7.55	70.00
MW-NASB-244	70.73	4/15/08	2.97	67.76	10/23/08	4.60	66.13
MW-NASB-245	67.51	4/15/08	4.61	62.90	10/23/08	5.76	61.75
MW-NASB-701	74.41	4/15/08	NA[2]	NA[2]	10/23/08	NA[2]	NA[2]
MW-NASB-702	73.63	4/15/08	6.42	67.21	10/23/08	7.05	66.58
MW-NASB-703	72.97	4/15/08	NA[2]	NA[2]	10/23/08	NA[2]	NA[2]

Notes:
ft = feet
NA = not available
NAVD 88 = North American Vertical Datum 1988
(1) Depth to water is the distance in feet from the measuring point (top of riser pipe) to the water.
(2) Well damaged.

TABLE 3-2
WATER QUALITY DATA
FOR THE 2008 SAMPLING EVENTS
OLD NAVY FUEL FARM
NAVAL AIR STATION BRUNSWICK

WELL	DATE	TIME (24-hour)	Cumulative Volume Purged (liters)	Temperature (°C)	pH (std)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Purge Rate (ml/min)
MW-NASB-051	04/16/08	13:05	14.5	6.75	5.94	49	2.70	134.4	3.1	250
MW-NASB-058	04/16/08	12:50	11.6	7.83	5.63	119	3.06	129.8	2.9	210
MW-NASB-062	04/17/08	10:45	15.0	11.42	5.26	77	3.97	57.1	2.2	150
MW-NASB-098	04/16/08	10:35	12.0	8.73	5.22	107	1.33	106.7	2.6	200
MW-NASB-207	04/17/08	12:35	9.0	8.16	5.95	291	1.98	274.8	1.8	180
MW-NASB-208BR	04/17/08	13:25	18.1	14.40	6.24	468	0.54	-34.4	6.3	180
MW-NASB-210	04/17/08	10:00	13.6	7.96	5.31	114	10.06	245.9	4.8	180
MW-NASB-701	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-NASB-702	04/16/08	11:05	20.0	8.39	6.45	94	8.59	120.4	5.7	200
MW-NASB-703	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-NASB-051	10/23/08	12:30	14.0	13.54	5.75	71	0.68	-81.0	0.0	250
MW-NASB-058	10/23/08	10:50	15.1	14.05	6.12	151	0.67	-143.0	0.0	250
MW-NASB-062	10/23/08	13:40	14.0	12.31	5.59	67	1.15	76.1	1.12	200
MW-NASB-098	10/23/08	11:10	8.5	12.23	5.76	102	0.54	31.9	2.8	150
MW-NASB-207	10/23/08	14:05	16.1	15.24	6.17	277	1.20	9.0	0.0	250
MW-NASB-208BR	10/24/08	11:00	18.0	17.92	6.18	479	0.50	-37.8	22.0	150
MW-NASB-210	10/24/08	10:10	17.5	16.42	5.87	112	1.25	41.0	2.0	250
MW-NASB-701	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-NASB-702	10/24/08	13:30	30.0	16.50	6.14	108	2.00	136.1	20.0	250
MW-NASB-703	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
°C = degrees Celsius
DO = dissolved oxygen
mg/L = milligrams per liter
ml/min = milliliters per minute
mS/cm = millisiemens per centimeter
mV = millivolts
NA = not applicable
NTU = nephelometric turbidity units
ORP = oxidation-reduction potential
Spec. Cond. = specific conductivity
std = standard units

TABLE 3-3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
FOR THE APRIL 2008 SAMPLING EVENT
OLD NAVY FUEL FARM
NAVAL AIR STATION BRUNSWICK

Chemical	MEG (µg/L)	MW NASB 51	MW NASB 58	MW NASB 62	MW NASB 98	MW NASB 98 (DUP)	MW NASB 207	MW NASB 208BR	MW NASB 210	MW NASB 701	MW NASB 702	MW NASB 703
VOCs (µg/L)												
BENZENE	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
ETHYLBENZENE	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
TOLUENE	1,400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
XYLENES, TOTAL	1,400	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA	3 U	NA
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA
MTBE	35	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
TPH (µg/L)												
TPH-DRO	50	**32 J**	50 U	50 U	**42 J**	**46 J**	**36 J**	**95**	**60**	NA	50 U	NA
TPH-GRO	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
MNA PARAMETERS (mg/L unless otherwise noted)												
ALKALINITY	--	**14**	**39**	**14**	**25**	**25**	**120**	**170**	**37**	NA	**39**	NA
NITRATE	10 mg/L	0.05 U	**0.24**	0.05 U	0.05 U	0.05 U	**0.19**	0.05 U	**1.3**	NA	**0.51**	NA
SULFATE	--	**4.9**	**14**	**6.5**	**9.8**	**9.9**	**3.2**	**5.2**	**18**	NA	1 U	NA
TOTAL ORGANIC CARBON	--	**1.4**	**2.2**	**5.8**	**2.5**	**2.4**	**3.7**	**2.9**	**7.6**	NA	**8.6**	NA
FERROUS IRON	--	**0.25**	**0.35**	**0.87 J**	**1.6**	**1.6**	0.1 UJ	**15.1 J**	**0.12 J**	NA	**0.28**	NA
METHANE *	--	10 U	10 U	**11**	**890**	**1,100**	10 U	**4,600**	10 U	NA	10 U	NA

Notes:
MW-701 and MW-703 were damaged in 2007 and were not sampled in the April 2008 sampling event.
* Concentrations for Methane are in µg/L.
DUP = Field duplicate sample
J = Estimated Value
U = Undetected Value
NA = Not analyzed
ND = Not Detected
-- = No Maxiumum Exposure Guidelines (MEG) criteria
Bold type denotes analyte detection.
Shaded boxes denote exceedances of MEG.

µg/L = micrograms per liter
mg/L = milligrams per liter

TABLE 3-4
GROUNDWATER ANALYTICAL RESULTS SUMMARY
FOR THE OCTOBER 2008 SAMPLING EVENT
OLD NAVY FUEL FARM
NAVAL AIR STATION BRUNSWICK

Chemical	MEG (µg/L)	MW NASB 51	MW NASB 58	MW NASB 62	MW NASB 98	MW NASB (DUP)	MW NASB 207	MW NASB 208BR	MW NASB 210	MW NASB 701	MW NASB 702	MW NASB 703
VOCs (µg/L)												
BENZENE	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
ETHYLBENZENE	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
TOLUENE	1,400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA
XYLENES, TOTAL	1,400	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA	3 U	NA
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA
MTBE	35	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	NA	1 U	NA
ETHYLENE DIBROMIDE	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	0.05 U	NA
TPH (µg/L)												
TPH-DRO	50	**44** J	**47** J	**35** J	**57** J	**56**	**45** J	**100**	**67**	NA	**1800**	NA
TPH-DRO[1]	50	NA	NA	48 U	NA	NA	NA	48 U	47 U	NA	62 J	NA
TPH-GRO	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
MNA PARAMETERS (mg/L unless otherwise noted)												
ALKALINITY	--	**23**	**65**	**11**	**21** J	**14**	**110**	**170**	**25**	NA	**31**	NA
NITRATE	10 mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.95**	NA	**0.19**	NA
SULFATE	--	**4.3**	**14**	**5.8**	**12**	**12**	**3.3**	**3.4**	**15**	NA	**4.7**	NA
TOTAL ORGANIC CARBON	--	**1.4**	**2.2**	**2.9**	**2.4**	**2.5**	**2.8**	**2.7**	**8.9**	NA	**19**	NA
FERROUS IRON	--	**0.44**	**0.34**	**0.61**	**3.1**	**3.2**	0.1 U	**18**	**0.25**	NA	**0.16**	NA
METHANE *	--	**21**	10 U	**10**	**1,600** J	**1,600** J	**45**	**5,700**	10 U	NA	**300**	NA

Notes:
1 - DRO sample subjected to silica gel treatment
MW-701 and MW-703 were damaged in 2007 and were not sampled in the October 2008 sampling event.
* Concentrations for Methane are in µg/L.
DUP = Field duplicate sample
J = Estimated Value
U = Undetected Value
UJ = Undetected Value, Estimated
NA = Not analyzed
ND = Not Detected
-- = No MEG criteria
Bold type denotes analyte detection.
Shaded boxes denote exceedances of MEG.

TABLE 4-1
SUMMARY OF HISTORICAL DETECTIONS
OF MTBE AND TOTAL BTEX
OLD NAVY FUEL FARM
NAVAL AIR STATION BRUNSWICK

WELL	DATE	MTBE	TOTAL BTEX
MW-NASB-051	10-Jul-96	**2.1**	ND
MW-NASB-051	7-Aug-96	**4.8**	**1.2**
MW-NASB-051	4-Dec-96	1 U	ND
MW-NASB-051	24-Jun-97	1 U	ND
MW-NASB-051	10-Dec-97	1 U	ND
MW-NASB-051	17-Jun-98	1 U	**2**
MW-NASB-051	8-Dec-98	1 U	**5**
MW-NASB-051	15-Jun-99	0.5 U	ND
MW-NASB-051	16-Dec-99	0.5 U	ND
MW-NASB-051	14-Jun-00	0.5 U	ND
MW-NASB-051	13-Dec-00	0.5 U	0 U
MW-NASB-051	5-Oct-01	1 U	ND
MW-NASB-051	25-Apr-02	1 U	ND
MW-NASB-051	26-Sep-02	2 U	ND
MW-NASB-051	16-Apr-03	2 U	ND
MW-NASB-051	16-Sep-03	2 U	ND
MW-NASB-051	31-Mar-04	2 U	0 U
MW-NASB-051	14-Sep-04	1 U	ND
MW-NASB-051	10-Mar-05	1 U	ND
MW-NASB-051	4-Oct-05	1 U	ND
MW-NASB-051	26-May-06	1 U	ND
MW-NASB-051	26-Oct-06	1 U	ND
MW-NASB-051	15-Oct-07	1 U	ND
MW-NASB-051	29-Nov-07	1 U	ND
MW-NASB-051	16-Apr-08	1 U	ND
MW-NASB-051	23-Oct-08	1 U	ND
MW-NASB-058	10-Jul-96	1 U	ND
MW-NASB-058	4-Dec-96	1 U	ND
MW-NASB-058	24-Jun-97	1 U	ND
MW-NASB-058	10-Dec-97	1 U	ND
MW-NASB-058	17-Jun-98	**4**	**2**
MW-NASB-058	8-Dec-98	1 U	**8**
MW-NASB-058	15-Jun-99	0.5 U	ND
MW-NASB-058	17-Dec-99	0.5 U	ND
MW-NASB-058	14-Jun-00	0.5 U	ND
MW-NASB-058	11-Dec-00	0.5 U	0 U
MW-NASB-058	8-May-01	0.5 U	ND
MW-NASB-058	5-Oct-01	1 U	ND
MW-NASB-058	24-Apr-02	1 U	ND
MW-NASB-058	26-Sep-02	2 U	ND
MW-NASB-058	15-Apr-03	2 U	ND
MW-NASB-058	16-Sep-03	2 U	ND
MW-NASB-058	1-Apr-04	2 U	0 U
MW-NASB-058	14-Sep-04	1 U	ND
MW-NASB-058	11-Mar-05	1 U	ND
MW-NASB-058	5-Oct-05	1 U	ND
MW-NASB-058	30-May-06	1 U	ND
MW-NASB-058	27-Oct-06	1 U	ND
MW-NASB-058	15-Oct-07	1 U	ND
MW-NASB-058	27-Nov-07	1 U	ND
MW-NASB-058	16-Apr-08	1 U	ND
MW-NASB-058	23-Oct-08	1 U	ND

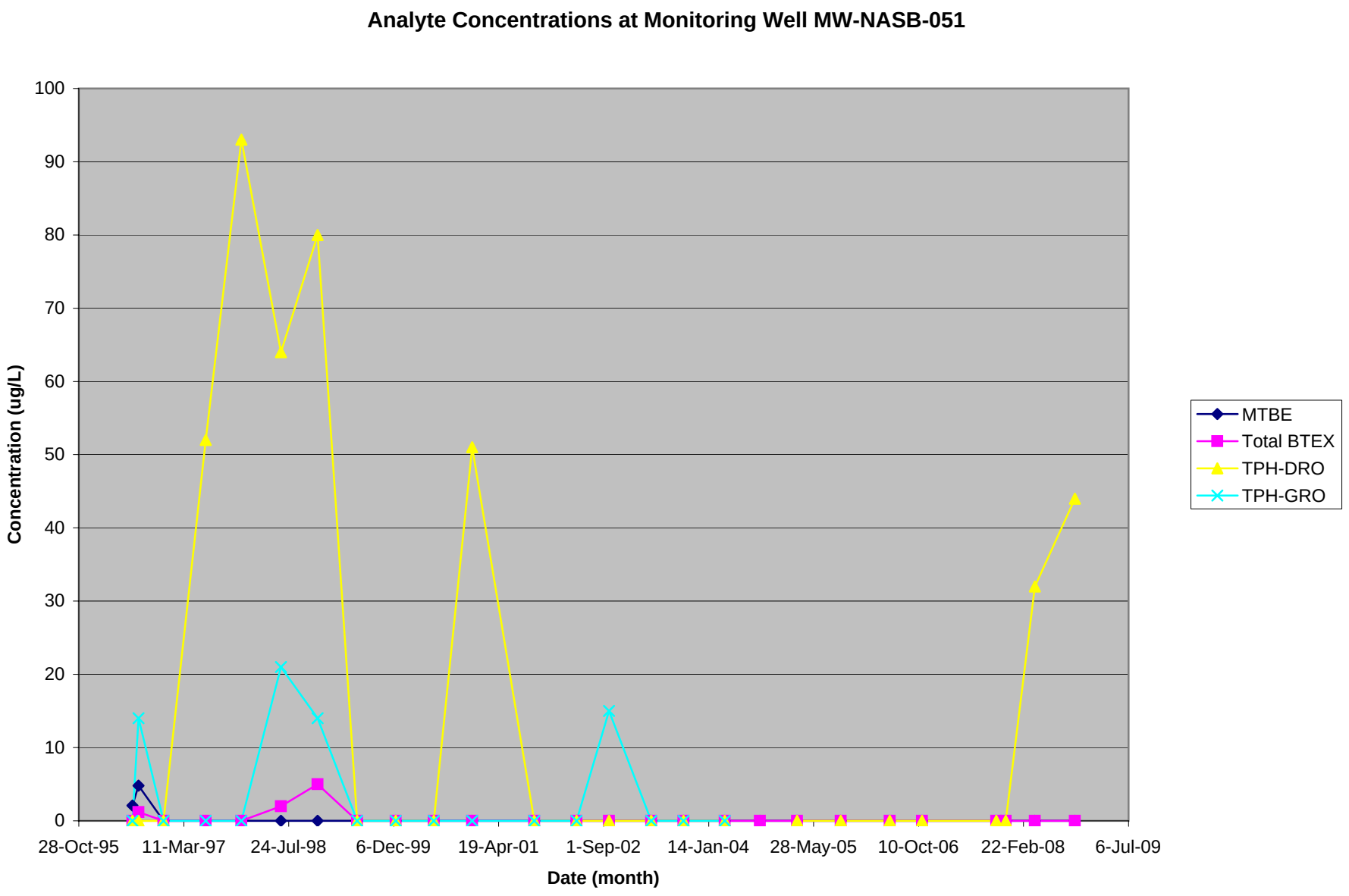
WELL	DATE	MTBE	TOTAL BTEX
MW-NASB-062	10-Jul-96	1 U	ND
MW-NASB-062	4-Dec-96	1 U	ND
MW-NASB-062	24-Jun-97	1 U	ND
MW-NASB-062	10-Dec-97	1 U	ND
MW-NASB-062	17-Jun-98	1 U	ND
MW-NASB-062	8-Dec-98	1 U	**6**
MW-NASB-062	15-Jun-99	0.5 U	ND
MW-NASB-062	16-Dec-99	0.5 U	ND
MW-NASB-062	11-Dec-00	0.5 U	0 U
MW-NASB-062	5-Oct-01	1 U	ND
MW-NASB-062	25-Apr-02	1 U	ND
MW-NASB-062	26-Sep-02	2 U	ND
MW-NASB-062	16-Apr-03	2 U	ND
MW-NASB-062	16-Sep-03	2 U	ND
MW-NASB-062	31-Mar-04	2 U	0 U
MW-NASB-062	14-Sep-04	1 U	ND
MW-NASB-062	10-Mar-05	1 U	ND
MW-NASB-062	5-Oct-05	1 U	ND
MW-NASB-062	30-May-06	1 U	ND
MW-NASB-062	26-Oct-06	1 U	ND
MW-NASB-062	15-Oct-07	1 U	ND
MW-NASB-062	28-Nov-07	1 U	ND
MW-NASB-062	17-Apr-08	1 U	ND
MW-NASB-062	23-Oct-08	1 U	ND
MW-NASB-098	14-Jun-00	0.5 U	ND
MW-NASB-098	11-Dec-00	0.5 U	0 U
MW-NASB-098	8-May-01	0.5 U	ND
MW-NASB-098	5-Oct-01	**0.87 J**	ND
MW-NASB-098	24-Apr-02	1 U	ND
MW-NASB-098	26-Sep-02	**5.3**	ND
MW-NASB-098	14-Apr-03	**15**	ND
MW-NASB-098	16-Sep-03	**16**	ND
MW-NASB-098	28-Mar-04	**4**	0 U
MW-NASB-098	15-Sep-04	**3.2**	ND
MW-NASB-098	11-Mar-05	**5.95**	ND
MW-NASB-098	5-Oct-05	**0.44 J**	ND
MW-NASB-098	30-May-06	1 U	ND
MW-NASB-098	26-Oct-06	1 U	ND
MW-NASB-098	8-Oct-07	1 U	ND
MW-NASB-098	26-Nov-07	1 U	ND
MW-NASB-098	16-Apr-08	1 U	ND
MW-NASB-098	23-Oct-08	1 UJ	ND
MW-NASB-207	14-Jun-00	0.5 U	ND
MW-NASB-207	11-Dec-00	0.5 U	0 U
MW-NASB-207	8-May-01	0.5 U	**1.7**
MW-NASB-207	5-Oct-01	1 U	ND
MW-NASB-207	25-Apr-02	1 U	ND
MW-NASB-207	25-Sep-02	2 U	ND
MW-NASB-207	14-Apr-03	2 U	ND
MW-NASB-207	17-Sep-03	2 U	ND
MW-NASB-207	30-Mar-04	2 U	0 U
MW-NASB-207	14-Sep-04	1 U	ND
MW-NASB-207	10-Mar-05	1 U	ND
MW-NASB-207	6-Oct-05	1 U	ND
MW-NASB-207	26-May-06	1 U	ND
MW-NASB-207	27-Oct-06	1 U	ND
MW-NASB-207	15-Oct-07	1 U	ND
MW-NASB-207	27-Nov-07	1 U	ND
MW-NASB-207	17-Apr-08	1 U	ND
MW-NASB-207	23-Oct-08	1 U	ND

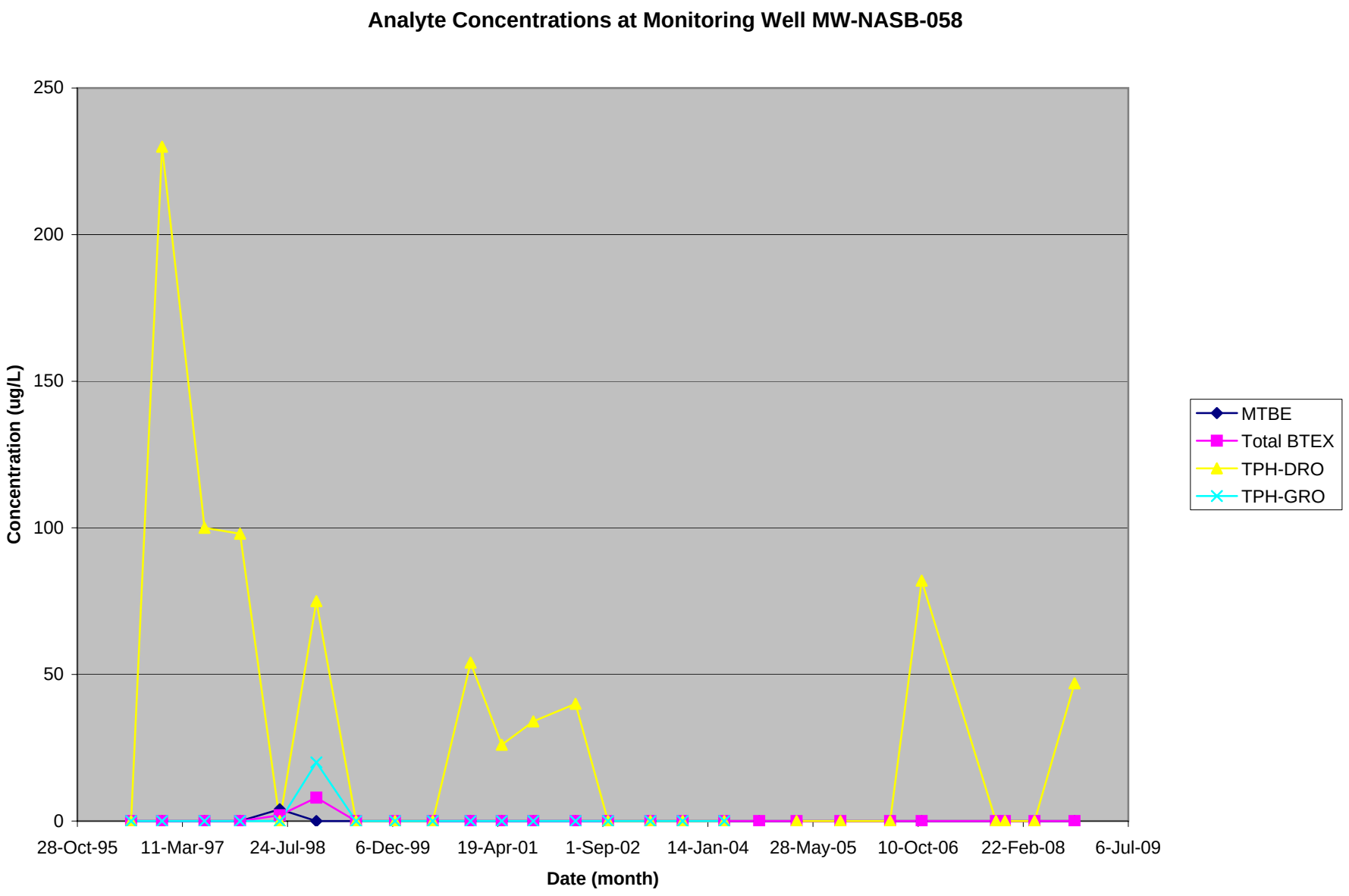
WELL	DATE	MTBE	TOTAL BTEX
MW-NASB-208BR	14-Jun-00	0.5 U	6.3
MW-NASB-208BR	11-Dec-00	0.5 U	0 U
MW-NASB-208BR	8-May-01	0.5 U	1.8
MW-NASB-208BR	24-Apr-02	1 U	ND
MW-NASB-208BR	26-Sep-02	2 U	0.77
MW-NASB-208BR	15-Apr-03	2 U	1.4
MW-NASB-208BR	18-Sep-03	2 U	4
MW-NASB-208BR	30-Mar-04	2 U	0 U
MW-NASB-208BR	15-Sep-04	1 U	ND
MW-NASB-208BR	14-Mar-05	1 U	ND
MW-NASB-208BR	6-Oct-05	1 U	ND
MW-NASB-208BR	24-May-06	1 U	ND
MW-NASB-208BR	27-Oct-06	1 U	ND
MW-NASB-208BR	11-Oct-07	1 U	ND
MW-NASB-208BR	26-Nov-07	1 U	ND
MW-NASB-208BR	17-Apr-08	1 U	ND
MW-NASB-208BR	24-Oct-08	1 U	ND
MW-NASB-210	10-Jun-99	0.5 U	ND
MW-NASB-210	11-Dec-00	0.5 U	0 U
MW-NASB-210	8-May-01	0.5 U	ND
MW-NASB-210	5-Oct-01	1 U	36
MW-NASB-210	25-Apr-02	1 U	ND
MW-NASB-210	24-Sep-02	2 U	ND
MW-NASB-210	13-Apr-03	2 U	ND
MW-NASB-210	16-Sep-03	2 U	ND
MW-NASB-210	28-Mar-04	2 U	0 U
MW-NASB-210	15-Sep-04	1 U	ND
MW-NASB-210	11-Mar-05	1 U	ND
MW-NASB-210	6-Oct-05	1 U	ND
MW-NASB-210	24-May-06	1 U	ND
MW-NASB-210	27-Oct-06	1 U	ND
MW-NASB-210	8-Oct-07	1 U	ND
MW-NASB-210	28-Nov-07	1 U	ND
MW-NASB-210	17-Apr-08	1 U	ND
MW-NASB-210	24-Oct-08	1 U	ND
MW-NASB-701	1-Apr-04	2 U	0 U
MW-NASB-701	14-Sep-04	1 U	ND
MW-NASB-701	8-Mar-05	1 U	ND
MW-NASB-701	4-Oct-05	1 U	ND
MW-NASB-701	25-May-06	**0.63 J**	ND
MW-NASB-701	26-Oct-06	1 U	ND
MW-NASB-701	Oct-07	NA	NA
MW-NASB-701	Nov-07	NA	NA
MW-NASB-701	Apr-08	NA	NA
MW-NASB-701	Oct-08	NA	NA
MW-NASB-702	1-Apr-04	2 U	0 U
MW-NASB-702	14-Sep-04	1 U	ND
MW-NASB-702	8-Mar-05	1 U	ND
MW-NASB-702	3-Oct-05	1 U	ND
MW-NASB-702	25-May-06	1 U	ND
MW-NASB-702	25-Oct-06	1 U	ND
MW-NASB-702	4-Oct-07	1 U	ND
MW-NASB-702	28-Nov-07	1 U	ND
MW-NASB-702	16-Apr-08	1 U	ND
MW-NASB-702	24-Oct-08	1 U	ND
MW-NASB-703	1-Apr-04	2 U	0 U
MW-NASB-703	14-Sep-04	1 U	ND
MW-NASB-703	8-Mar-05	1 U	ND
MW-NASB-703	4-Oct-05	1 U	ND
MW-NASB-703	25-May-06	1 U	ND
MW-NASB-703	25-Oct-06	1 U	ND
MW-NASB-703	Oct-07	NA	NA

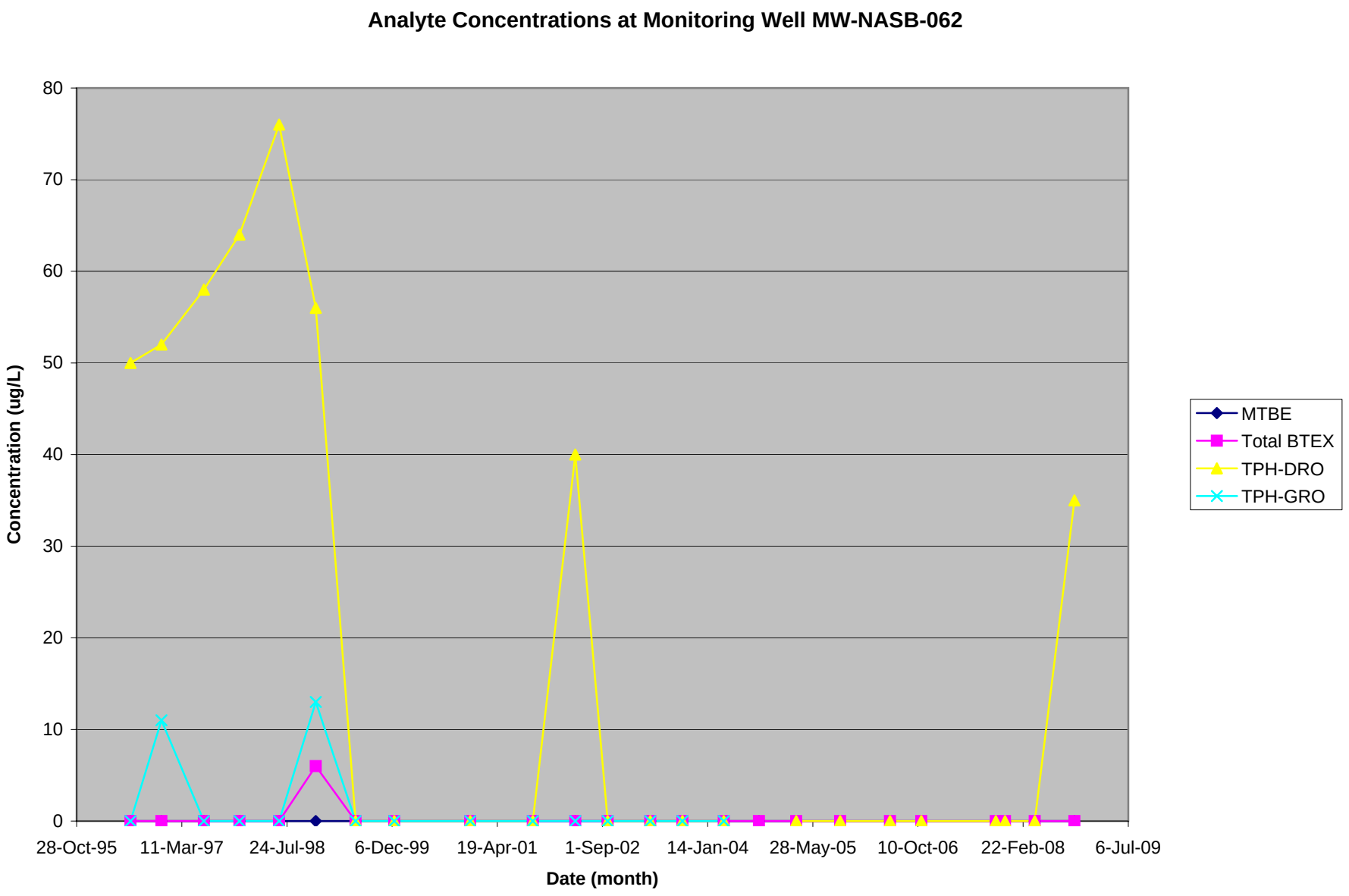
WELL	DATE	MTBE	TOTAL BTEX
MW-NASB-703	Nov-07	NA	NA
MW-NASB-703	Apr-08	NA	NA
MW-NASB-703	Oct-08	NA	NA

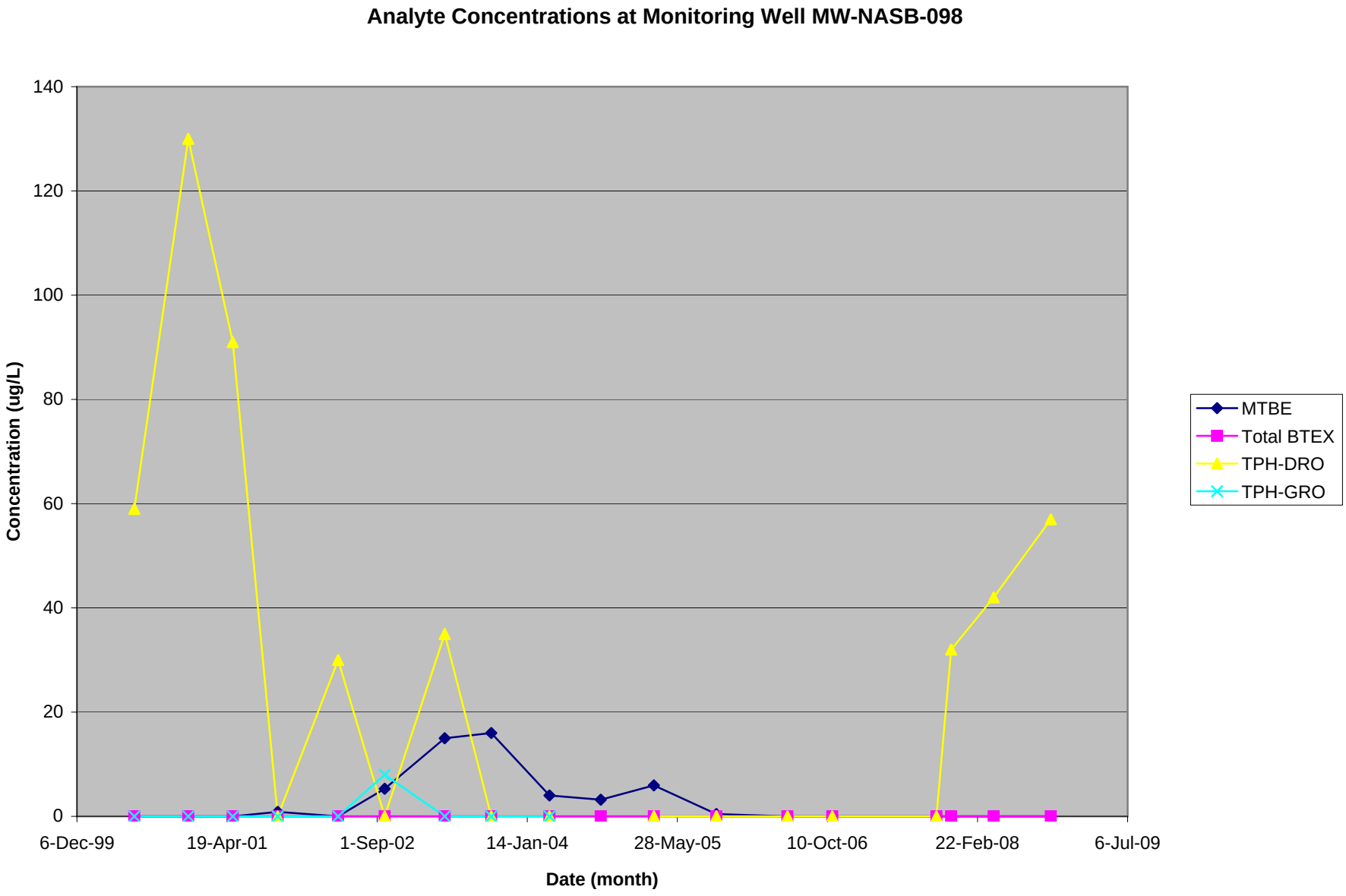
APPENDIX A

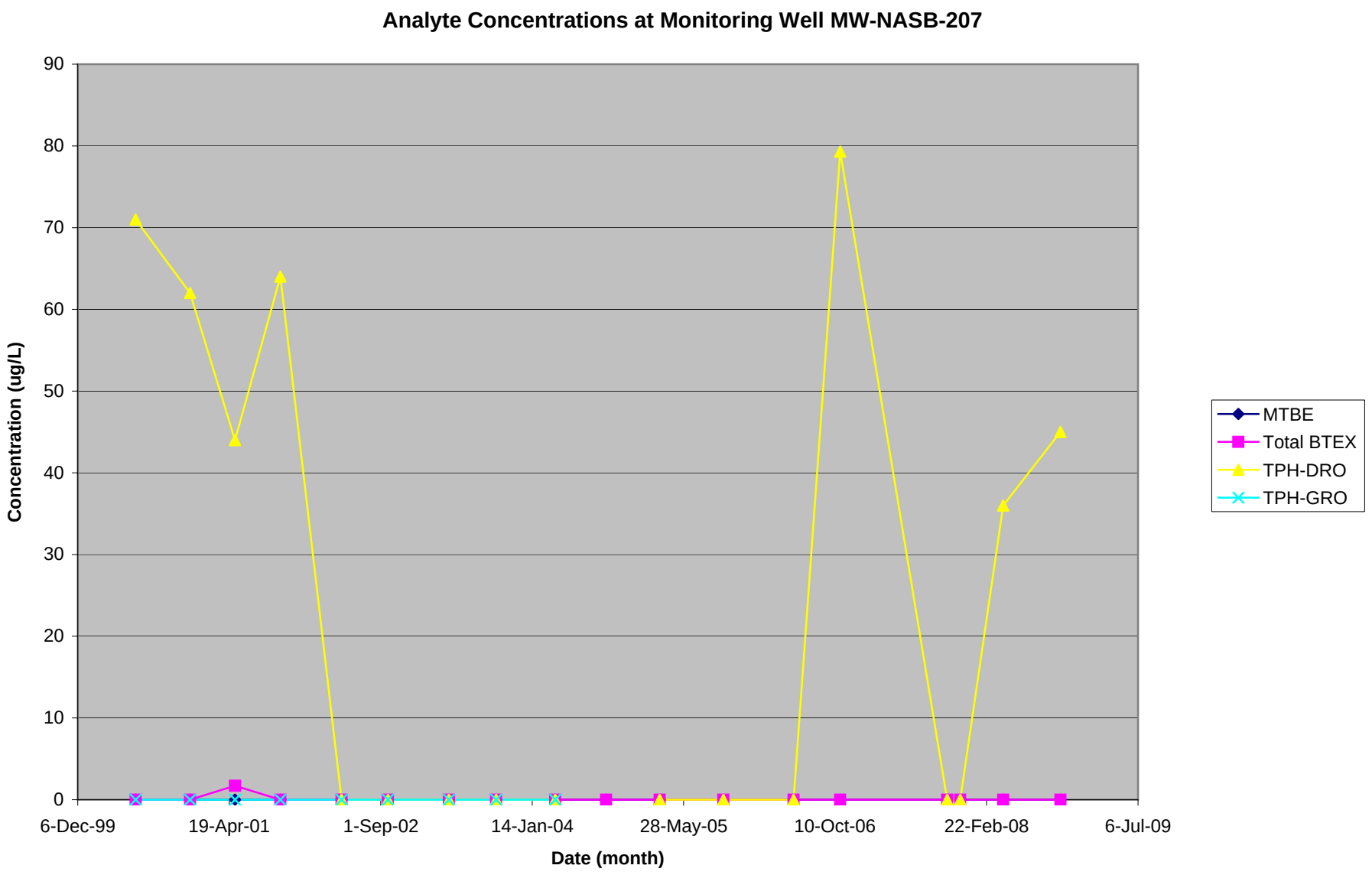
Trend Graphs

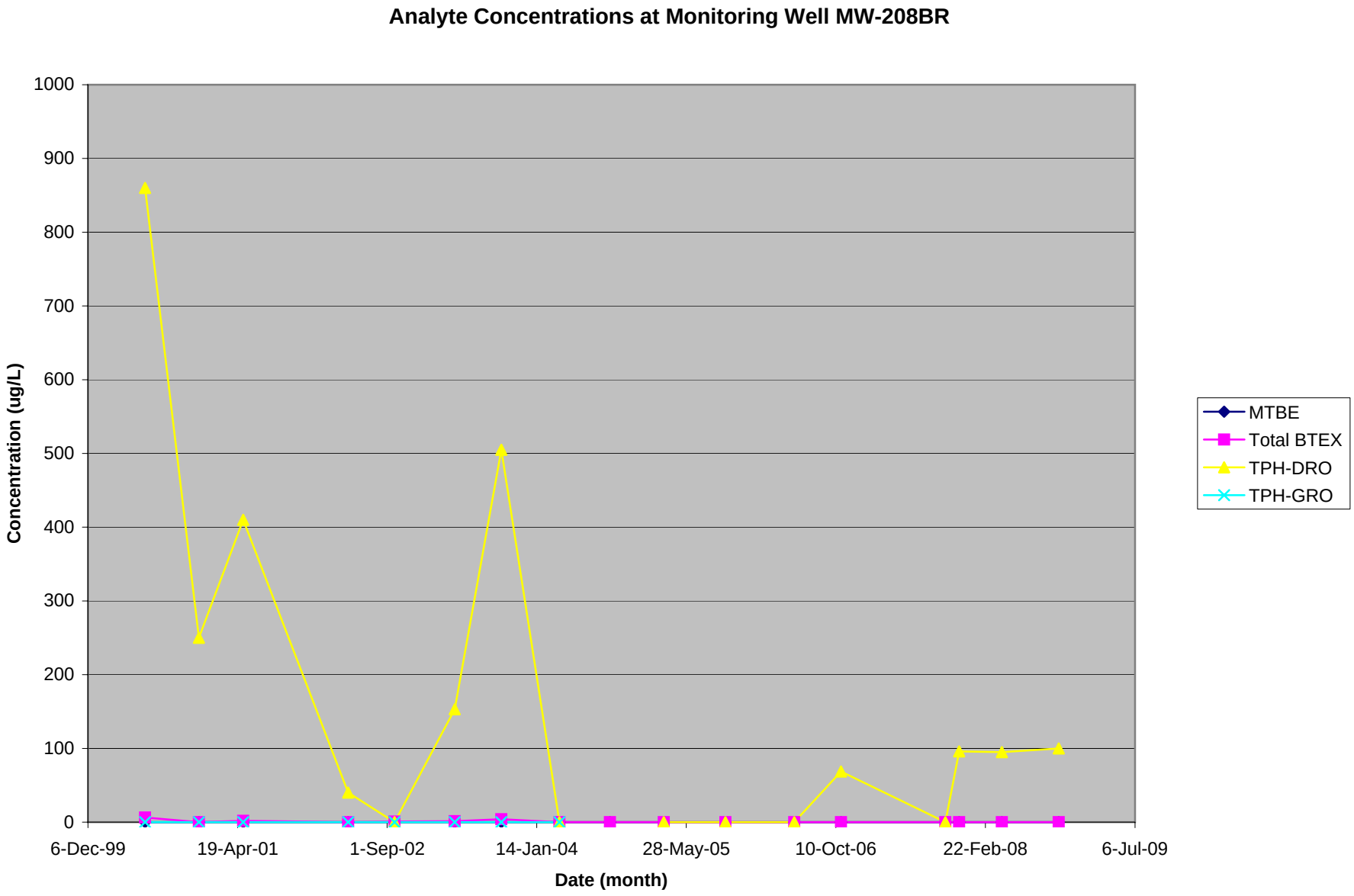

Analyte Concentrations at Monitoring Well MW-NASB-051
Concentration (ug/L)
100
90
80
70
60
50
40
30
20
10
0
28-Oct-95
11-Mar-97
24-Jul-98
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO

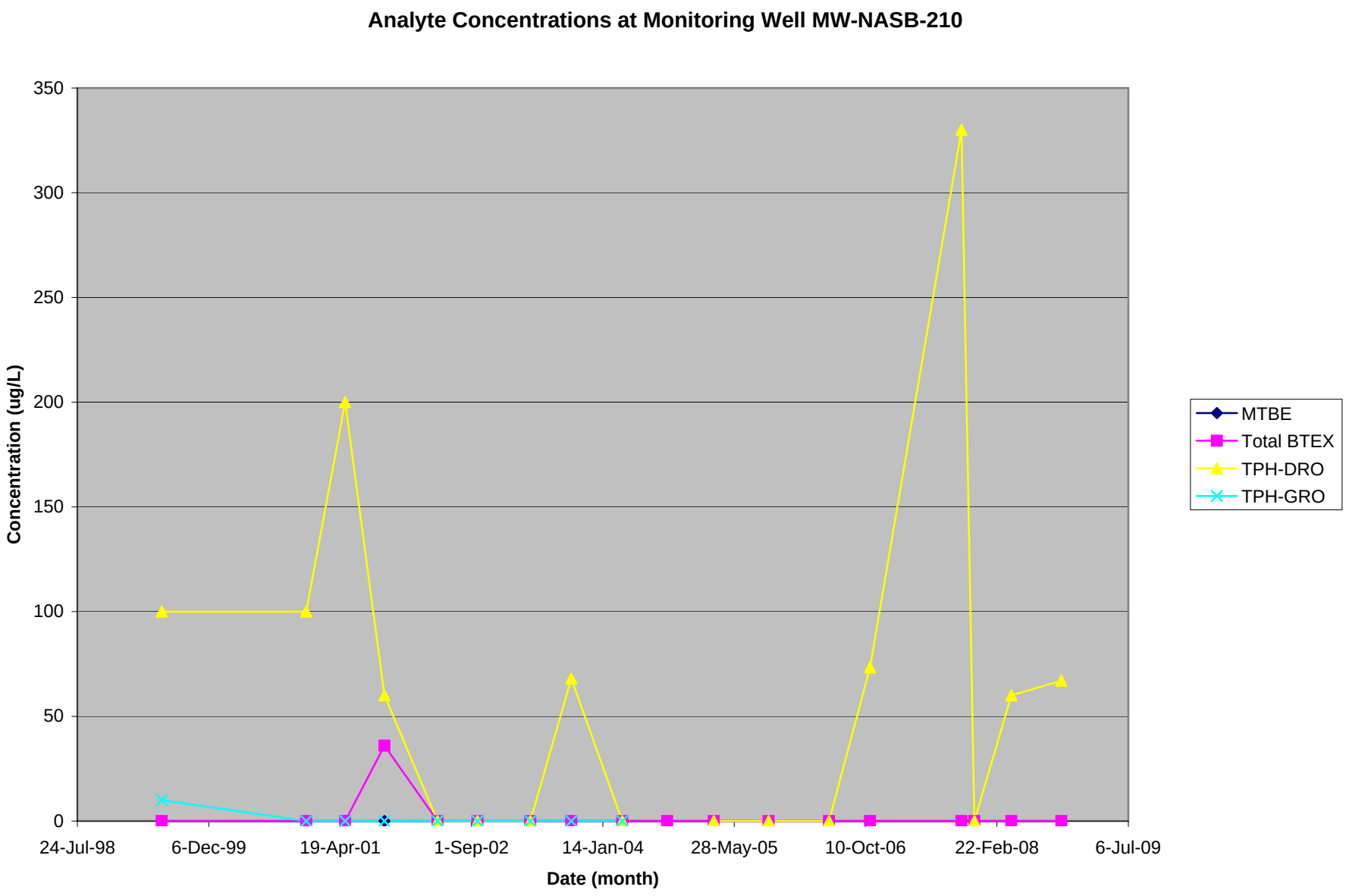

Analyte Concentrations at Monitoring Well MW-NASB-058
250
200
150
100
50
0
Concentration (ug/L)
28-Oct-95
11-Mar-97
24-Jul-98
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO


Analyte Concentrations at Monitoring Well MW-NASB-062
Concentration (ug/L)
80
70
60
50
40
30
20
10
0
28-Oct-95
11-Mar-97
24-Jul-98
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO

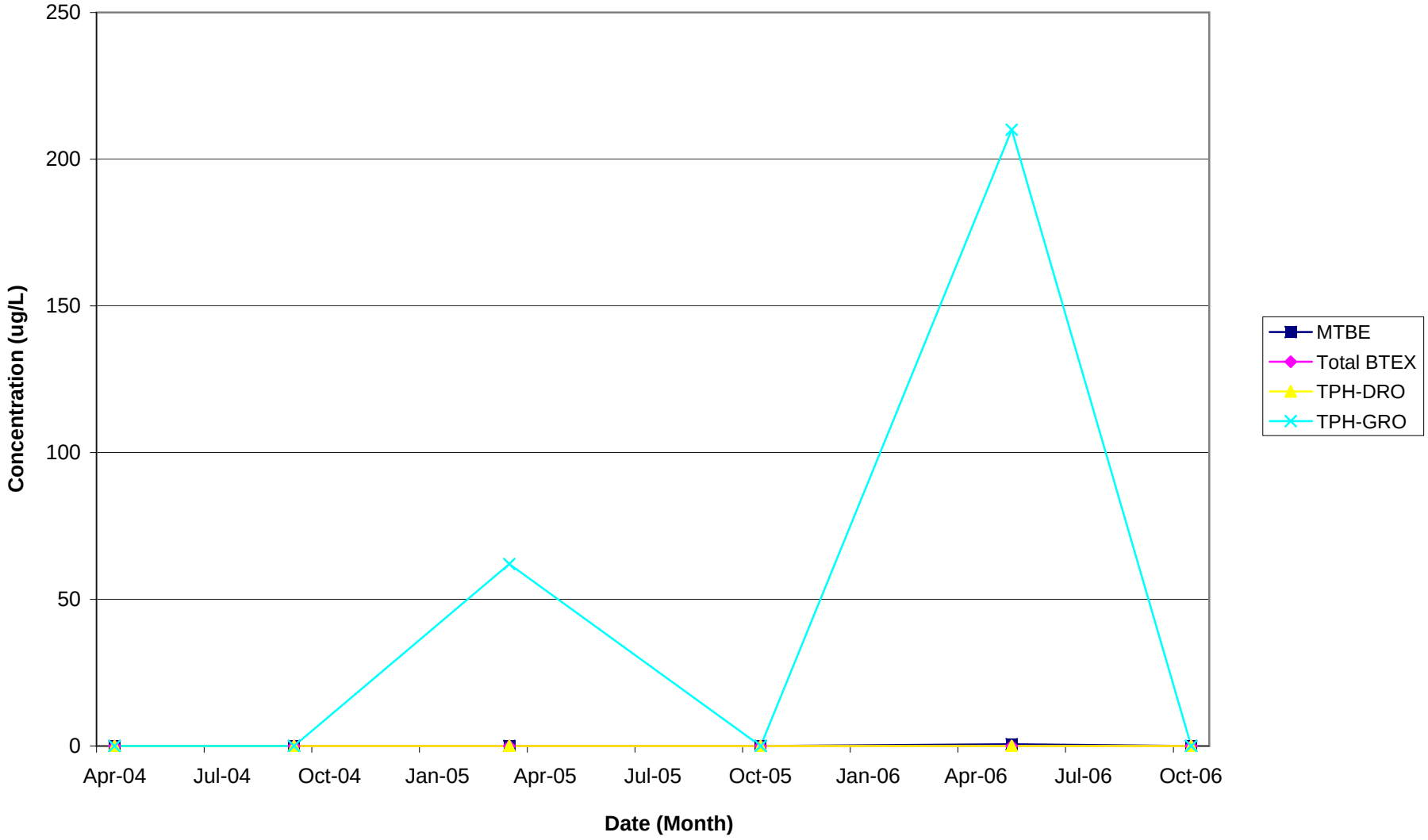

Analyte Concentrations at Monitoring Well MW-NASB-098
Concentration (ug/L)
140
120
100
80
60
40
20
0
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO


Analyte Concentrations at Monitoring Well MW-NASB-207
Concentration (ug/L)
90
80
70
60
50
40
30
20
10
0
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO

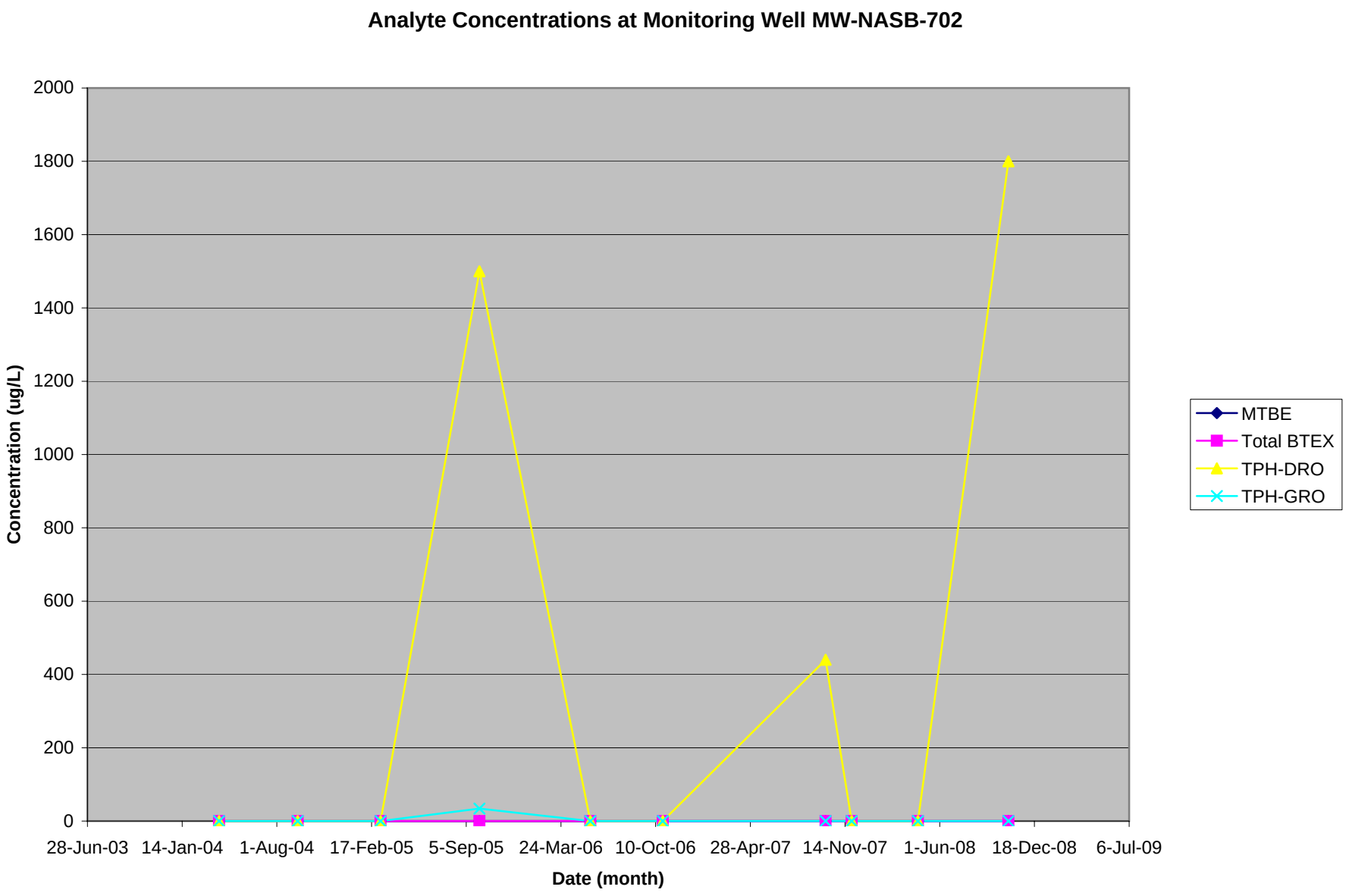

Analyte Concentrations at Monitoring Well MW-208BR
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO


Analyte Concentrations at Monitoring Well MW-NASB-210
Concentration (ug/L)
350
300
250
200
150
100
50
0
24-Jul-98
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO

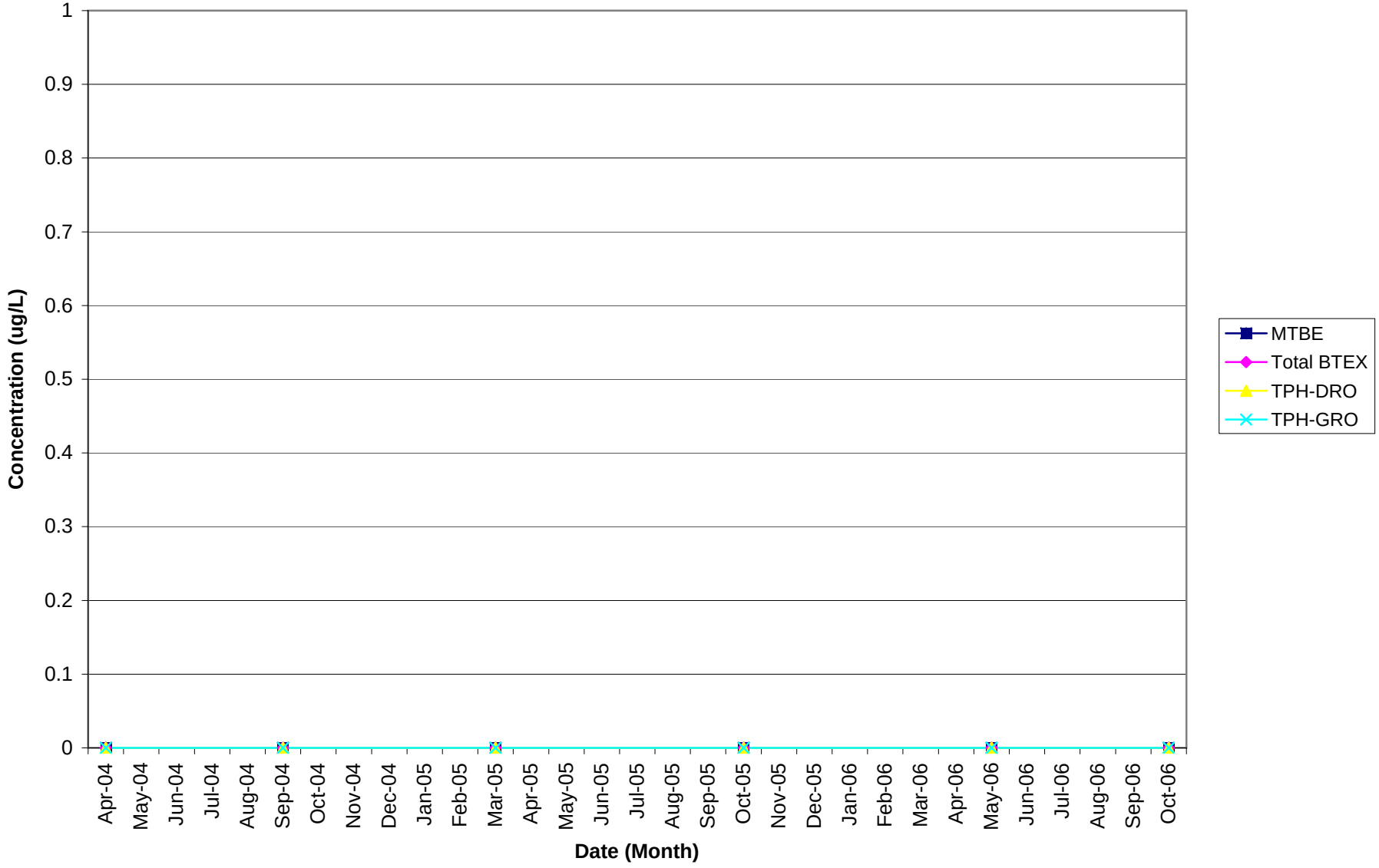
Analyte Concentrations at Monitoring Well MW-NASB-701



Note: The non-detect concentrations shown in the trend graph are plotted as zero. The non-detect and detect concentrations are both labeled with filled in points.


Analyte Concentrations at Monitoring Well MW-NASB-702
Concentration (ug/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
28-Jun-03
14-Jan-04
1-Aug-04
17-Feb-05
5-Sep-05
24-Mar-06
10-Oct-06
28-Apr-07
14-Nov-07
1-Jun-08
18-Dec-08
6-Jul-09
Date (month)
MTBE
Total BTEX
TPH-DRO
TPH-GRO

Analyte Concentrations at Monitoring Well MW-NASB-703



Note: The non-detect concentrations shown in the trend graph are plotted as zero. The non-detect and detect concentrations are both labeled with filled in points.

APPENDIX B

Field Records of Well Gauging, Purging, and Sampling Forms

4/16/08 NASB 65°, clear sky

0800 ECC (David Gomez, Helen Cavanagh, Jeff Donovan) on site at NASB Brunswick to continue sampling activities.

Tailgate Safety Meeting / Calibrate Sampling Equipment

Groundwater Samples Collected from ONFF:
MW-NASB-051
MW-NASB-058
MW-NASB-098 MS/MSD FD= MW-NASB-DUP1
MW-NASB-702

Groundwater Samples Collected from Site 7:
MW-NASB-093
MW-NASB-095
MW-NASB-099
MW-NASB-770

Katahdin Labs picked-up samples.

Post Calibrate Sampling Equipment

4/17/08 NASB 55°, clear sky

0800 ECC (David Comeau, Jeff Donovan, Helen Cavanagh) on site at NASB Brunswick to continue sampling activities.

Tailgate Safety Meeting / Calibrate Sampling equipment

- Groundwater samples collected from ONFF:
MW-NASB-062
MW-NASB-207
MW-NASB-208BR
MW-NASB-210

Rinsate Blank collected from non-dedicated "floating" grundfos pump = ONFF-Rinsate Blank.

Unable to collect samples from MW-NASB-701 and MW-NASB-703 due to Damage/obstruction in wells above water table. Possible from snowplow or lawnmower.

- Groundwater Samples Collected from Site 7:
MW-NASB-091
MW-NASB-096 MS/MSD FD = MW-NASB-XD1

Katahdin Labs picked-up samples.

Post Calibrate Sampling Equipment

KATAHDIN LABS

CHAIN OF CUSTODY

Accutest Job #:

Accutest Control #:

Client Information

Name: Environmental Chemical Corporation

Address: 33 Boston Post Road West, Suite 340

City: Marlborough, MA State: 01752 Zip:

Send Report to: Jackson Kiker

Phone #: 508-229-2270

Facility Information

Project Name: Old Navy Fuel Farm

Location: NASB Brunswick, Maine

Project No.: 5700.016

FAX #: 508-229-7737

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	TCL VOC (BTEX + MTBE)	TPH GRO	TPH DRO	METHANE	Alkalinity, Sulfate, Nitrate	Ferrous Iron	TOTAL ORGANIC CARBON				
ONFF-QT1	4/16/08	0800	DC	TB	7	X					X	X		X							
MW-NASB-051	4/16/08	1310	JD	GW	5	X					X			X							
MW-NASB-058	4/16/08	1255	HC	GW	5	X					X			X							
MW-NASB-098 ms/msd	4/16/08	1040	HC	GW	15	X					X			X							
MW-NASB-DUP1	4/16/08	00:00		GW	5	X					X			X							
MW-NASB-702	4/16/08	1110	JD	GW	7	X					X	X		X							
MW-NASB-062	4/17/08	1050	JD	GW	11	X			X	X	X		X	X	X	X	X				
MW-NASB-207	4/17/08	1240	HC	GW	11	X			X	X	X		X	X	X	X	X				
MW-NASB-208BR	4/17/08	1330	JD	GW	11	X			X	X	X		X	X	X	X	X				
MW-NASB-210	4/17/08	1005	HC	GW	11	X			X	X	X		X	X	X	X	X				
ONFF-RINSATE BLANK	4/17/08	1430	DC	RB	9	X					X	X	X	X							

Turnaround Information

- ☐ 21 Day Standard — Approved By:
- ☐ 14 Day
- ☐ 7 Days *EMERGENCY*
- ☐ Other _____ (Days)

RUSH TAT is for FAX data

Data unless previously approved.

Data Deliverable Information

- ☐ NJ Reduced
- ☐ NJ Full
- ☐ FULL CLP
- ☐ Disk Deliverable
- ☐ Other (Specify)
- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ ASP Category B
- ☐ State Forms

Comments / Remarks

Page 1 of 1

(2) coolers

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	4/17/08 1455	1 4-17-08 14:55	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applica ☐	On Ice: ☐

KATAHDIN LABS

CHAIN OF CUSTODY

Accutest Job #:

Accutest Control #:

Client Information

Name: Environmental Chemical Corporation

Address: 33 Boston Post Road West, Suite 340

City: Marlborough, MA State: 01752 Zip:

Send Report to: Jackson Kiker

Phone #: 508-229-2270

Facility Information

Project Name: Old Navy Fuel Farm

Location: NASB Brunswick, Maine

Project No.: 5700.016

FAX #: 508-229-7737

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	TCL VOC (BTEX + MTBE)	TPH GRO	TPH DRO	METHANE	Alkalinity, Sulfate, Nitrate	Ferrous Iron	TOTAL ORGANIC CARBON				
MW-NASB-051	4/16/08	1310	JD	GW	6	X			X	X			X		X	X	X				
MW-NASB-058	4/16/08	1255	HC	GW	6	X			X	X			X		X	X	X				
MW-NASB-098 ms/msd	4/16/08	1040	HC	GW	18	X			X	X			X		X	X	X				
MW-NASB-DUP1	4/16/08	00:00		GW	6	X			X	X			X		X	X	X				
MW-NASB-702	4/16/08	1110	JD	GW	6	X			X	X			X		X	X	X				

Turnaround Information

- ☐ 21 Day Standard — Approved By:
- ☐ 14 Day
- ☐ 7 Days *EMERGENCY*
- ☐ Other _____ (Days)

RUSH TAT is for FAX data Data unless previously approved.

Data Deliverable Information

- ☐ NJ Reduced
- ☐ NJ Full
- ☐ FULL CLP
- ☐ Disk Deliverable
- ☐ Other (Specify) _____
- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ ASP Category B
- ☐ State Forms

Comments / Remarks

Page 1 of 1

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	4/16/08 1505	1 15:05	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applica ☐	On Ice: ☐

OLD FUEL FARM MONITORING WELL GAUGING SUMMARY April 2008

Well Designation	DATE	TIME	WELL CONDITION	PID (ppm)	Depth to Water (ft below Top of PVC Riser)	COMMENTS
MW-NASB-046	4-15-08	1325	O.K.	0	3.64	
MW-NASB-049	4-15-08	1327	O.K.	0	4.48	
MW-NASB-051	4-15-08	1343	O.K.	0	3.63	
MW-NASB-058	4-15-08	1329	O.K.	0	5.65	
MW-NASB-062	4-15-08	1311	O.K.	0	2.83	
MW-NASB-098	4-15-08	1306	O.K.	0	5.43	
MW-NASB-206	4-15-08	1335	O.K.	0	5.15	
MW-NASB-207	4-15-08	1332	O.K.	0	5.65	
MW-NASB-208BR	4-15-08	1359	O.K.	0	4.77	
MW-NASB-209R	4-15-08	1403	O.K.	0	4.02	
MW-NASB-210	4-15-08	1303	O.K.	0	6.32	
MW-NASB-244	4-15-08	1347	O.K.	0	2.97	
MW-NASB-245	4-15-08	1351	O.K.	0	4.61	
MW-NASB-701	4-15-08	1316	Damaged	0	Dry	Damage / Blockage @ 5.32'
MW-NASB-702	4-15-08	1318	O.K.	0	6.42	
MW-NASB-703	4-15-08	1323	Damaged	0	Dry	Damage / Blockage @ 5.04'

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: LTM ONFF
Location: NASB, Brunswick, ME
Well ID: MW-051

Date: 4-16-08
Sampler: J. Donovan
PID Reading: 0.0

Start Time: 1210 **End Time:** 1305
Well Construction: 2" PVC
Depth to water: 3.75 TOP PVC
Well Depth: 15.5
Water Column: 11.75
Total Volume Removed (L) 14.5

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	06D2528AE
YSI	600XL	06F2363AD
LAMOTTE	2020	1680-0900

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1210	0	250	3.98	7.18	6.9	72	4.92	117.6	25.8	CLEAR
1220	2.50	250	3.9	6.54	6.2	70	1.47	120.6	21.9	"
1230	5.0	250	3.91	6.5	6.03	54	2.27	126.8	8.49	"
1240	7.5	250	3.91	6.73	5.97	52	2.4	130.4	4.21	"
1250	9.0	250	3.91	6.87	5.95	50	2.49	132.1	3.8	"
1255	11.5	250	3.91	6.79	5.94	49	2.6	134.7	3.6	"
1300	13.0	250	3.91	6.74	5.96	51	2.66	134.1	2.9	"
1305	14.5	250	3.91	6.75	5.94	49	2.7	134.4	3.1	"
Acceptance Criteria:					10%	10%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1310	MW-NASB-051	40 mL VOA	3	HCL	BTEX + MTBE
	↓	↓	2	HCL	METHANE
			2	H_2SO_4	TOC
		1 LITER AMBER	2	HCL	TPH DRO
		250 POLY	1	NONE	NITRATE, ALKALINITY, SULFATE
	↓	250 POLY	1	HCL	IRON 2

Comments

Jeff Donovan
Signature

4-16-08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-058

Date: 4/16/08
Sampler: Helen Cavanagh
PID Reading: 0

Start Time: 11:55 **End Time:** 13:10
Well Construction: 2" PVC
Depth to water: 5.74
Well Depth: 15.99
Water Column: 10.25
Total Volume Removed (L) 11.55

Field Testing Equipment

Make	Model	Serial #
YSI	600XL	01K0643 AA
YSI	650 MDS	04J15158 AC
GRUNDFOS	Controller	05908
LaMotte	2020	5303-3504

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
12:05	2.1	210	5.91	8.81	5.45	121	2.90	190.7	130	light orange
12:15	2.1	210	5.92	8.22	5.43	120	2.11	141.7	16	clear
12:25	2.1	210	5.94	7.81	5.55	120	2.83	125.6	7.4	clear
12:35	2.1	210	5.94	7.74	5.58	120	3.05	130.4	4.8	clear
12:40	1.05	210	5.94	7.79	5.60	120	3.07	130.2	3.5	clear
12:45	1.05	210	5.94	7.81	5.61	120	3.08	133.4	3.6	clear
12:50	1.05	210	5.94	7.83	5.63	119	3.06	129.8	2.9	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
12:55	MW-NASB-058	40mL vial	5	HCl	BTEX + MTBE, Methane
12:55	MW-NASB-058	40mL vial	2	H_2SO_4	TOC
12:55	MW-NASB-058	250mL poly	1	HCl	Iron II
12:55	MW-NASB-058	125 mL poly	1	NONE	Alkalinity, Nitrate, Sulfate
12:55	MW-NASB-058	1L amber	2	HCl	DRO

Comments

Helen Cavanagh
Signature

4/16/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: STM ONFF
Location: NASB, Brunswick, ME
Well ID: MW-062

Date: 4-17-08
Sampler: J. DONOVAN
PID Reading: 0.0

Start Time: 0920 **End Time:** 1045
Well Construction: 2" PVC
Depth to water: 7.91 TOP PVC
Well Depth: 16.35
Water Column: 8.44
Total Volume Removed (L) 15.0

Field Testing Equipment

Make	Model	Serial #
YSI	650 MDS	06D2528 AE
YSI	600XL	06F2353 AD
LAMOTTE	2020	1680-0900

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
0920	0	150	8.02	8.17	7.23	129	10.5	25.4	34.0	YELLOWISH
0930	1.5	150	8.02	8.48	6.51	120	9.65	26.0	50.7	"
0940	3.0	150	8.02	10.5	6.12	94	7.7	30.0	20.7	CLEAR
0950	4.5	150	8.02	11.03	6.10	90	6.7	45.8	9.0	"
1000	6.0	150	8.02	11.21	5.92	87	6.09	55.9	5.08	"
1010	7.5	150	8.02	11.12	5.07	84	5.55	61.4	4.13	"
1020	9.0	150	8.02	11.45	5.32	73	4.82	61.1	2.52	"
1030	10.5	150	8.02	11.42	5.28	72	4.35	61.4	2.31	"
1035	12.0	150	8.02	11.46	5.27	79	4.1	57.6	2.4	"
1040	13.5	150	8.02	11.42	5.27	77	3.98	57.0	2.21	"
1045	15.0	150	8.02	11.42	5.26	77	3.97	57.1	2.18	"
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1050	MW-NASB-062	40 ml VOA	3	HCL	BTEX + MTBE
↓	↓	↓	2	HCL	METHANE
			2	H_2SO_4	TOC
			2 LITER AMBER	HCL	TPH DRO
			250 POLY	NONE	ALK, SULFATE, NITRATE
↓	↓		↓	HCL	IRON 2

Comments

Signature

4-17-08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-098

Date: 4/16/08
Sampler: Helen Cavanagh
PID Reading: 0

Start Time: 9:35 **End Time:** 11:25
Well Construction: 2" PVC
Depth to water: 5.59
Well Depth: 15.93
Water Column: 10.34
Total Volume Removed (L) 12.0

Field Testing Equipment

Make	Model	Serial #
YSI	600XL	01K0643 AA
YSI	650 MDS	04J15158 AC
GrundFos	Controller	05908
LaMotte	2020	5303-3504

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
9:45	2.0	200	6.12	8.39	6.17	66	4.44	186.1	92	light orange
9:55	2.0	200	6.14	8.63	5.38	74	2.27	104.6	13	clear
10:05	2.0	200	6.14	8.70	5.34	83	2.07	94.6	8	clear
10:10	1.0	200	6.14	8.59	5.25	90	1.65	97.1	5.2	clear
10:20	2.0	200	6.14	8.65	5.22	99	1.40	103.3	4.2	clear
10:25	1.0	200	6.14	8.69	5.26	104	1.38	107.9	3.5	clear
10:30	1.0	200	6.14	8.70	5.23	106	1.34	109.9	2.5	clear
10:35	1.0	200	6.14	8.73	5.22	107	1.33	106.7	2.6	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
10:40	MW-NASB-098	40mL vial	5	HCl	BTEX+MTBE, Methane
10:40	MW-NASB-098	40mL vial	2	H_2SO_4	TOC
10:40	MW-NASB-098	250 mL poly	1	HCl	iron II
10:40	MW-NASB-098	125 mL poly	1	NONE	Nitrate, Sulfate, Alkalinity
10:40	MW-NASB-098	1L amber	2	HCl	DRO

Comments

10:40 MW-NASB-098-MS
10:40 MW-NASB-098-MSD
00:00 MW-NASB-DUP1
* SAME AS ABOVE

Helen Cavanagh
Signature

4/16/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW- NASB - 207

Date: 4/17/08
Sampler: Helen Garanagh
PID Reading: 0

Start Time: 11:45 **End Time:** 13:00
Well Construction: 2" PVC
Depth to water: 5.78
Well Depth: 17.71
Water Column: 11.93
Total Volume Removed (L) 9.0

Field Testing Equipment

Make	Model	Serial #
YSI	600XL	01K0643 AA
YSI	650 MDS	04J15158 AC
Grundfos	Controller	05908
LaMotte	2020	5303-3504

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
11:55	1.8	180	6.48	8.41	6.09	405	2.95	202.7	16	clear
12:05	1.8	180	6.48	8.07	5.93	374	2.56	243.2	6.49	clear
12:15	1.8	180	6.49	8.03	5.93	336	2.33	269.9	5.5	clear
12:20	0.9	180	6.49	8.07	5.93	307	2.15	276.2	3.7	clear
12:25	0.9	180	6.49	8.12	5.95	297	2.02	277.6	3.1	clear
12:30	0.9	180	6.49	8.13	5.95	295	2.01	278.0	2.9	clear
12:35	0.9	180	6.49	8.16	5.95	291	1.98	274.8	1.8	clear
Acceptance Criteria:					10%	10%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
12:40	MW-NASB-207	40 mL vial	5	HCl	BTEX+MTBE, Methane
12:40	MW-NASB-207	40 mL vial	2	H_2SO_4	TOC
12:40	MW-NASB-207	250 mL poly	1	HCl	Iron II
12:40	MW-NASB-207	125 mL poly	1	None	Nitrate, Sulfate + Alkalinity
12:40	MW-NASB-207	1 L amber	2	HCl	DRO

Comments

Helen Garanagh
Signature

4/17/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: LTM ONFF
Location: NASB, Brunswick, ME
Well ID: MW-208 BR

Date: 4-17-08
Sampler: J. Donovan
PID Reading: 0.0

Start Time: 1200 **End Time:** 1325
Well Construction: 2" PVC FLUSH MT.
Depth to water: 4.82 TOP PVC
Well Depth: 19.33
Water Column: 14.51
Total Volume Removed (L) 18.1

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	06D2528 AE
YSI	600XL	06F2353 AD
LAMOTTE	2020	1680-0900

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1200	0	180	5.98	12.3	6.22	470	1.01	-18.3	302	CLOUDY
1210	1.8	180	6.2	12.94	6.27	468	0.83	-21.8	273	"
1220	3.6	180	6.82	13.52	6.3	468	0.5	-20.6	161	"
1230	5.4	180	6.91	13.85	6.3	468	0.46	-20.6	61.3	"
1240	7.2	180	6.9	14.0	6.29	470	0.48	-32.8	33.0	CLEAR
1250	9.0	180	6.9	14.1	6.28	469	0.45	-33.1	23.0	"
1300	10.8	180	6.9	14.13	6.26	469	0.5	-34.1	14.6	"
1310	12.6	180	6.9	14.2	6.24	467	0.53	-34.2	9.8	"
1315	14.5	180	6.9	14.4	6.24	468	0.54	-34.1	8.5	"
1320	16.3	180	6.9	14.39	6.23	468	0.54	-34.2	6.1	"
1325	18.1	180	6.9	14.4	6.24	468	0.54	-34.4	6.3	"
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1330	MW-NASB-208BR	40 MIL VOA	3	HCL	BETEX / MTBE
↓	↓	↓	2	HCL	METHANE
			2	H_2SO_4	TOC
		1 LITER AMBER	2	HCL	TPH DRO
		500 ML POLY	1	NONE	ALK, SULFATE, NITRATE
↓	↓	↓	1	HCL	IRON 2

Comments

Signature

4-17-08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-210

Date: 4/17/08
Sampler: Helen Cavanagh
PID Reading: 0

Start Time: 8:55 **End Time:** 10:15
Well Construction: 2" PVC
Depth to water: 6.41
Well Depth: 16.67
Water Column: 10.26
Total Volume Removed (L) 13.6

Field Testing Equipment

Make	Model	Serial #
YSI	600XL	01K0643 AA
YSI	650 MDS	04J15158 AC
Grundfos	Controller	05908
LaMotte	2020	5303-3504

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
9:05	2.5	250	6.51	7.34	6.40	108	11.11	204.2	50	clear
9:15	2.5	250	6.51	7.33	5.83	104	10.98	214.8	11	clear
9:25	2.0	200	6.51	8.29	5.64	104	10.58	227.8	6.6	clear
9:35	2.0	200	6.51	8.16	5.48	107	10.52	282.1	5.8	clear
9:40	1.0	200	6.51	8.20	5.45	112	10.32	234.3	4.7	clear
9:45	0.9	180	6.51	8.05	5.39	115	10.21	235.1	4.3	clear
9:50	0.9	180	6.51	8.01	5.38	117	10.09	242.1	4.1	clear
9:55	0.9	180	6.51	7.98	5.34	118	10.07	244.8	4.2	clear
10:00	0.9	180	6.51	7.96	5.31	114	10.06	245.9	4.8	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
10:05	MW-NASB-210	40 mL vial	5	HCl	BTEX+MTBE, Methane
10:05	MW-NASB-210	40 mL vial	2	H_2SO_4	TOC
10:05	MW-NASB-210	250 mL poly	1	HCl	IRON II
10:05	MW-NASB-210	125 mL poly	1	NONE	Nitrate, Sulfate + Alkalinity
10:05	MW-NASB-210	1 L amber	2	HCl	DRO

Comments

Helen Cavanagh
Signature

4/17/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Location: NASB, Brunswick, ME
Well ID: MW-NASB-701

Date: 4/17/08
Sampler: Helen Cavanagh
PID Reading:

Start Time: **End Time:**
Well Construction:
Depth to water: Dry
Well Depth:
Water Column:
Total Volume Removed (L)

Field Testing Equipment

Make	Model	Serial #

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
Acceptance Criteria:					10%	10%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
	No sample collected				

Comments

* Unable to sample due to damage/obstruction @ 5.53 ft.

Helen Cavanagh
Signature

4/17/08
Date

4

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: LTM ONFF
Location: NASB, Brunswick, ME
Well ID: MW-702

Date: 4-16-08
Sampler: J. DONOVAN
PID Reading: 0.0

Start Time: 0940 **End Time:** 1105
Well Construction: 2" PVC
Depth to water: 6.47 TOP PVC
Well Depth: 14.65
Water Column: 8.18
Total Volume Removed (L) 20.0

Field Testing Equipment

Make	Model	Serial #
YSI	650 MDS	06D2528AE
YSI	600 XL	06F2363 AD
LAMOTTE	2020	1680-0900

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
0940	0	200	6.54	6.98	7.86	99	9.59	94.0	547	CLOUDY
0950	2.0	200	6.54	6.94	7.43	107	9.31	96.6	611	"
1000	4.0	200	6.54	7.59	6.87	99	9.23	98.3	196	"
1010	6.0	200	6.54	8.1	6.7	87	9.56	106.3	28.6	"
1020	8.0	200	6.54	8.12	6.59	84	9.72	112.9	13.8	CLEAR
1030	10.0	200	6.54	8.13	6.53	87	9.28	116.9	9.5	"
1040	12.0	200	6.54	8.3	6.48	90	8.81	120.8	7.56	"
1050	14.0	200	6.54	8.33	6.45	94	8.5	121.2	6.18	"
1055	16.0	200	6.54	8.31	6.45	94	8.6	121.6	6.2	"
1100	18.0	200	6.54	8.4	6.47	92	8.63	120.8	5.18	"
1105	20.0	200	6.54	8.39	6.45	94	8.59	120.4	5.7	"
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1110	MW-NASB-702	40 MIL VOA	3	HCL	BTEX / MTBE
			2	HCL	TPH ~~GRO~~ GRO
			2	HCL	METHANE
			2	H_2SO_4	TOC
		1L AMBER	2	HCL	TPH DRO
		250 ML POLY	1	NONE	NITRATE, ALKALINITY, SULFATE
		250 ML POLY	1	HCL	IRON

Comments

Jeff Donovan
Signature

4-16-08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Location: NASB, Brunswick, ME
Well ID: MW-NASB-703

Date: 4/17/08
Sampler: Helen Cavanagh
PID Reading:

Start Time: **End Time:**
Well Construction:
Depth to water: Dry
Well Depth:
Water Column:
Total Volume Removed (L)

Field Testing Equipment

Make	Model	Serial #

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm[c]	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
	No sample collected				

Comments

* Unable to sample due to damage/obstruction @ 5.04'

Helen Cavanagh
Signature

4/17/08
Date

INSTRUMENT CALIBRATION LOG

Project/Site Name NASB **Date** 4/16/08 **Weather** SUNNY 50's

Calibrated By Helen Cavanagh **Instrument** YSI 600 XL, YSI 650 MDS **Serial Number** 01K0643 AA, 04J15158 AC

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.387	19.05	
pH (7)	7.00	7.06	19.24	
pH (4)	4.00	4.00	19.30	
pH (10)	10.00	10.03	19.37	
ORP	240	244.4	19.45	
Dissolved Oxygen %	100.3%	100.1%	18.24	
Zero Dissolved Oxygen Mg/l	0.25	0.22	19.28	
Barometric Pressure	761.9	765.8		

INSTRUMENT CALIBRATION LOG

Project/Site Name NASB **Date** 4/16/08 **Weather** Sunny 50's

Calibrated By Helen Cavanagh **Instrument** YSI 600XL, YSI 1050MDS **Serial Number** 06D2528 AE, 06F2353 AD

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.463	19.58	
pH (7)	7.00	7.02	19.32	
pH (4)	4.00	3.99	19.28	
pH (10)	10.00	10.0	19.56	
ORP	240	241.9	19.42	
Dissolved Oxygen %	99.8%	~~99.09%~~ 100.9%	17.96	
Zero Dissolved Oxygen Mg/l	0.24	0.42	19.29	
Barometric Pressure	757.9			

INSTRUMENT CALIBRATION LOG

Project/Site Name NASB **Date** 4/17/08 **Weather** SUNNY 60°F

Calibrated By Helen Cavanagh **Instrument** YSI 600XL, YSI 650 MDS **Serial Number** 01K0643 AA, 04J15158 AC

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.394	16.71	
pH (7)	7.00	6.95	17.23	
pH (4)	4.00	4.05	17.39	
pH (10)	10.00	10.03	17.53	
ORP	240	237.1	17.46	
Dissolved Oxygen %	100%	98.5%	16.43	
Zero Dissolved Oxygen Mg/l	0.22	0.25	17.49	
Barometric Pressure	765.8	762.9		

INSTRUMENT CALIBRATION LOG

Project/Site Name NASB **Date** 4-17-08 **Weather** SUNNY 60°

Calibrated By J. DONOVAN **Instrument** YSI 600XL, YSI 650 MDS **Serial Number** 06D2528 AE, 06F2353 AD

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.489	17.18	
pH (7)	7.0	6.99	17.21	
pH (4)	4.0	3.98	16.79	
pH (10)	10.0	9.99	17.37	
ORP	240	238.6	17.46	
Dissolved Oxygen %	100.9%	100.6%	15.36	
Zero Dissolved Oxygen Mg/l	0.42	0.27	17.24	
Barometric Pressure	767.1			

INSTRUMENT CALIBRATION LOG

Project/Site Name NASB **Calibrated By** Helen Cavanagh

Instrument/Serial Number	Pre-cal 1.0 (NTU)	Pre-cal 10 (NTU)	Post-cal 1.0 (NTU)	Post-cal 10 (NTU)	Date
Lamotte Turbidimeter 5303-3504	1.0	10	0.8	9.7	4/16/08
Lamotte Turbidimeter 1680-0900	1.0	10	0.98	10.4	"
Lamotte Turbidimeter 5303-3504	1.0	10	1.2	9.8	4/17/08
Lamotte Turbidimeter 1680-0900	1.0	10	1.09	9.7	"
Lamotte Turbidimeter 5303-3504	1.0	10	1.1	10	4/18/08
Lamotte Turbidimeter 1680-0900	1.0	10	1.3	11	"
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					

ENVIRONMENTAL CHEMICAL CORPORATION
DAILY TAILGATE SAFETY MEETING

Meeting conducted by: David Comeau Date: 4/16/08

Project Site: NASB, Maine Task: Low-Flow Sampling

Personal protective Equipment:

Level D

Chemical Hazards & Control measures:

Going to be a good day out Today. SunBlock available on site, wear a hat (Free Pine hats in office)

Physical Hazards & Control Measures:

Be careful when lowering grundfos pump into well. If the pump gets away from you or is decending too fast, do not try to stop or grab it. could cut your hand.

Emergency Procedures:

911/cell Phone/Buddy System

Hospital/Clinic: Mid-Coast Hospital
Address: 123 Medical Center Drive
Phone: 207-729-0181

Attendees

Name printed	Signature
Jeff Donovan	Jeff Don
Dave Comeau	[illegible]
Helen Cavanagh	Helen Cavanagh

ENVIRONMENTAL CHEMICAL CORPORATION
DAILY TAILGATE SAFETY MEETING

Meeting conducted by: David Comeau Date: 4/17/08

Project Site: NASB, Maine Task: Low-Flow Sampling

Personal protective Equipment:

Level D

Chemical Hazards & Control measures:

Do not spray Tick spray upwind or on your skin. spray on Boots/clothing only!

Physical Hazards & Control Measures:

when walking ~~through~~ in the woods wear safety glasses. Branches can be at eye level and hard to see.

Emergency Procedures:

911 / cell Phone / Buddy System

Hospital/Clinic: Mid-Coast Hospital
Address: 123 Medical Center Drive
Phone: 207-729-0181

Attendees

Name printed	Signature
Jeff Donovan	
Dave Comeau	
Helen Cavanagh	Helen Cavanagh

10/22/08 NASB 45°, overcast

1500 ECC (David Comeau) on site @ Bld 50, to perform Old Navy Fuel Farm Sampling and Smith Residential well sampling.

Aquired / Prepped Equipment

Aquired / Prepped Sample containers

10/23/08 NASB 63°, clear sky

0700 ECC (David Comeau) on site @ NASB, Maine to continue sampling event.

0800 Paul Lynch (NEL) on site to assist ECC in sampling activities.

Tailgate Safety Meeting / calibrate Sampling Equipment

Performed gauging/well inspection activities @ ONFF

Groundwater Samples collected from ONFF:
MW-NASB-051
MW-NASB-058
MW-NASB-062
MW-NASB-098 *FD: MW-NASB-DUP1 *MS/MSD
MW-NASB-207

MW-NASB-098 Damaged. Possible obstruction with lawn-mower, snowplow, recent ~~construction~~ DC soil boring next to well, Tetra-Tech, Possible geoprobe caused damage. Able to collect sample using peristaltic pump. Grundfos pump would not go by bent part of casing. well is Bent.

MW-NASB-701 and MW-NASB-203 also damaged. Possible Lawn mower or snow Plow. Attempted to sample wells using 1/4 Tubing and peristaltic pump with no results. complete blockage. Attempted to break through blockage with a piece of rebar, no results. solid dirt/sand. Possible casing is completely broken.

Continued to page 151 →

10/23/08 NASB 63°, clear sky

→ continued from page 150.

MW-NASB-701, Blockage @ 5.33'
MW-NASB-703, Blockage @ 5.10'

Groundwater samples collected from Eastern Plume:
MW-RW-01 (Residential well, Smith Residence) MS/MSD

Post Calibrate Sampling Equipment

Katahdin Labs picked up samples. Sent out Iron (for same day analysis) and other samples with no trip blank (DRO, Alk, Sulfate, Nitrate, and TOC) The reason for this is not to send out multiple Trip Blank causing more analytical causing more $. All samples will be sent out 10/24/08.

MW-RW-01 samples sent to Accutest Labs.

10/24/08 NASB 45°, clear sky

0730 ECC (David Comeau) on site @ NASB, ME to continue sampling activities.

0800 NEC (Paul Lynch) on site to assist with sampling activities.

Tailgate Safety Meeting / calibrate Sampling Equipment

Ground water samples Collected from ONFF:
MW-NASB-208BR
MW-NASB-210
MW-NASB-702

Collected Rinsate Blank on Grundfos Pump: ONFF-Rinsate Blank.

This Completes sampling @ ONFF. All samples sent to Katahdin LaBS.

Post Calibrate Sampling Equipment

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Location: NASB, Brunswick, ME
Well ID: MW-NASB-051

Date: 10/23/08
Sampler: David Comeau
PID Reading: 0.0

Start Time: 1135 **End Time:** 1230
Well Construction: 2" PVC
Depth to water: 4.72'
Well Depth: 15.61'
Water Column: 10.89'
Total Volume Removed (L) 14.0

Field Testing Equipment

Make	Model	Serial #
YSI	650 MDS	04E8527 AE
YSI	600XL	01A0138 AA
Lamotte	Turbidimeter	11825
Grundfos	Controller	10594

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^{C}	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1140	1.5	300	4.96	11.74	6.36	77	5.22	-22	25	clear
1150	2.5	250	4.94	12.97	5.98	73	2.15	-77	8	clear
1155	1.25	250	4.95	13.19	5.91	75	1.59	-88	5	clear
1200	1.25	250	4.95	13.29	5.87	72	1.24	-96	3	clear
1205	1.25	250	4.95	13.35	5.85	71	0.98	-93	2	clear
1210	1.25	250	4.95	13.40	5.81	72	0.81	-91	1	clear
1215	1.25	250	4.95	13.45	5.79	71	0.65	-83	1	clear
1220	1.25	250	4.95	13.51	5.77	71	0.68	-88	0	clear
1225	1.25	250	4.94	13.52	5.74	71	0.66	-81	0	clear
1230	1.25	250	4.94	13.54	5.75	71	0.68	-81	0	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1230	MW-NASB-051	40ml vial	6	HCl, $Na_2S_2O_3$	BTEX+MTBE, EDB
1230	MW-NASB-051	1 L Amber	2	HCl	DRO
1230	MW-NASB-051	40ml vial	4	HCl, H_2SO_4	Methane, TOC
1230	MW-NASB-051	125ml poly	1	NONE	Nitrate, Sulfate, Alk
1230	MW-NASB-051	250ml poly	1	HCl	Iron II

Comments

Signature

10/23/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Location: NASB, Brunswick, ME
Well ID: MW-NASB-058

Date: 10/23/08
Sampler: David Comeau
PID Reading: 0.0

Start Time: 0958 **End Time:** 1050
Well Construction: 2" PVC
Depth to water: 5.99'
Well Depth: 15.93'
Water Column: 9.94'
Total Volume Removed (L) 15.1

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	04E8527 AE
YSI	600XL	01A0138 AA
Lamotte	Turbidimeter	11825
Grundfos	~~Sc~~ Controller	10594

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1000	1.1	550	6.22	11.77	8.54	136	5.00	-19	19	clear
1010	4.0	400	6.14	13.01	6.58	134	1.61	-92	10	clear
1020	2.5	250	6.12	13.89	6.28	145	0.97	-100	3	clear
1025	1.25	250	6.12	13.93	6.21	147	0.78	-113	1	clear
1030	1.25	250	6.13	13.90	6.18	149	0.65	-122	1	clear
1035	1.25	250	6.13	13.88	6.15	150	0.77	-131	1	clear
1040	1.25	250	6.13	13.97	6.12	150	0.72	-138	0	clear
1045	1.25	250	6.13	14.03	6.12	151	0.70	-140	0	clear
1050	1.25	250	6.13	14.05	6.12	151	0.67	-143	0	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1050	MW-NASB-058	40ml vial	3	HCl	BTEX+MTBE
1050	MW-NASB-058	40ml vial	3	$Na_2S_2O_3$	EDB
1050	MW-NASB-058	40ml vial	2	HCl	Methane
1050	MW-NASB-058	125ml Poly	1	None	Nitrate, Sulfate, Alk
1050	MW-NASB-058	250ml Poly	1	HCl	Iron II
1050	MW-NASB-058	40ml Vial	2	H_2SO_4	TOC
1050	MW-NASB-058	1 Lamber	2	HCL	DRO

Comments

Signature

10/23/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-062

Date: 10/23/08
Sampler: P Lynch
PID Reading: -0.0

Start Time: 1230 **End Time:** 1340
Well Construction: 2" PVC
Depth to water: 8.80
Well Depth: 16.37
Water Column: 7.57
Total Volume Removed (L) 14

Field Testing Equipment

Make	Model	Serial #
YSI	650 MDS	04g11895 AC
YSI	600 XLM	08g 101420
LaMotte	2020c	Me 11297

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1240	~~2.0~~ 2.0 PC	200	9.10	12.14	5.51	66	1.17	68.8	7.35	clear
1250	2.0	200	9.10	12.26	5.53	66	0.97	56.8	1.94	clear
1300	2.0	200	9.11	12.29	5.55	66	0.94	63.0	1.70	clear
1310	2.0	200	9.11	12.29	5.56	66	1.00	72.3	1.11	clear
1320	2.0	200	9.11	12.32	5.57	66	1.10	74.1	1.13	clear
1330	2.0	200	9.11	12.28	5.58	66	1.10	74.3	1.00	clear
1335	1.0	200	9.11	12.29	5.58	66	1.16	75.2	1.10	clear
1340	1.0	200	9.11	12.31	5.59	67	1.15	76.1	1.12	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1340	MW-NASB-062	40ml VOA	3	HCl	~~DRO~~ BTEX-MTBE
1340	MW-NASB-062	40ml VOA	2	HCl	Methane
1340	MW-NASB-062	40ml VOA	3	$Na_2S_2O_3$	EDB
1340	MW-NASB-062	40ml VOA	2	H_2SO_4	TOC
1340	MW-NASB-062	1L Amber	2	HCl	DRO+Silica Gel
1340	MW-NASB-062	125ml Poly	1	4°C	NO_3, SO_4, Alk

Comments

1340 MW-NASB-062 .25L Poly 1 HCl Ferrous Iron

Signature

10/23/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-098

Date: 10/23/08
Sampler: P Lynch
PID Reading: 0.0

Start Time: 1000 **End Time:** 1215
Well Construction: 2" PVC
Depth to water: 7.25
Well Depth: 15.70
Water Column: 12.45
Total Volume Removed (L) 8.5

Field Testing Equipment

Make	Model	Serial #
YSI	650 MDS	04E11895AC
YSI	600 XLM	08E 101420
Lamotte	2020e	Me 11297

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1010	1.5	150	7.31	9.42	6.03	128	2.83	-16.6	22.5	clear
1020	1.5	150	7.31	11.80	5.88	109	1.57	-4.6	6.90	clear
1030	1.5	150	7.31	12.21	5.80	104	0.74	13.9	4.48	clear
1040	1.5	150	7.31	12.24	5.78	102	0.62	21.7	3.13	clear
1050	1.5	150	7.31	12.20	5.76	102	0.61	25.3	3.17	clear
1055	0.75	150	7.31	12.26	5.76	103	0.59	25.7	3.01	Clear
1100	0.75	150	7.31	12.23	5.75	104	0.56	30.1	2.91	clear
1105	0.75	150	7.31	12.24	5.75	103	0.55	31.0	2.90	clear
1110	0.75	150	7.31	12.23	5.76	102	0.54	31.9	2.76	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1110	MW-NASB-098 MS/MSD	40 ml VOA	~~DC~~ 9	HCl	~~GRO~~ BTEX-MTBE
1110	MW-NASB-098 MS/MSD	40 ml VOA	~~DC~~ 6	HCl	Methane
1110	MW-NASB-098 MS/MSD	40 ml VOA	~~DC~~ 9	$Na_2S_2O_3$	EDB
1110	MW-NASB-098 MS/MSD	40 ml VOA	~~DC~~ 6	H_2SO_4	TOC
1110	MW-NASB-098 MS/MSD	1 L Amber	~~DC~~ 6	HCl	DRO
1110	MW-NASB-098 MS/MSD	125 ~~250~~ ml Poly	~~DC~~ 3	4°C	NO_3, SO_4, Alk

Comments

1110 MW-NASB-098 MS/MSD 250 ml Poly ~~DC~~ 3 HCl Ferrous Iron
See attached sheet for DOP-sample ID information
Unable to install submersible pump due to well being bent. Used Peristaltic to sample

Signature

10/23/08
Date

KATAHDIN LABS

CHAIN OF CUSTODY

Accutest Job #:

Accutest Control #:

Client Information

Name: Environmental Chemical Corporation
Address: 33 Boston Post Road West, Suite 340
City: Marlborough, MA State: 01752 Zip:
Send Report to: Jackson Kiker
Phone #: 508-229-2270

Facility Information

Project Name: Old Navy Fuel Farm
Location: NASB Brunswick, Maine
Project No.: 5700.016
FAX #: 508-229-7737

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	TCL VOC (BTEX + MTBE, 8260B)	EDB (50.41)	TPH GRO (Maine 4.2.17)	TPH DRO (Maine 4.1.25)	METHANE	Alkalinity, Sulfate, Nitrate	Ferrous Iron	TOTAL ORGANIC CARBON			
MW-NASB-058	10/23/08	1050	DC	GW	6	X			X	X				X		X	X	X			
MW-NASB-098 ms/msd	10/23/08	1110	PL	GW	18	X			X	X				X		X	X	X			
MW-NASB-DUP1	10/23/08	00:00		GW	6	X			X	X				X		X	X	X			
MW-NASB-051	10/23/08	1230	DC	GW	6	X			X	X				X		X	X	X			
MW-NASB-207	10/23/08	1405	DC	GW	6	X			X	X				X***		X	X	X			
MW-NASB-062	10/23/08	1340	PL	GW	6	X			X	X				X***		X	X	X			

Turnaround Information

- ☐ 21 Day Standard — Approved By:
- ☐ 14 Day
- ☐ 7 Days *EMERGENCY*
- ☐ Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- ☐ NJ Reduced
- ☐ NJ Full
- ☐ FULL CLP
- ☐ Disk Deliverable
- ☐ Other (Specify)
- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ ASP Category B
- ☐ State Forms

Comments / Remarks

*** with and without Silica Gel by the Alaska method. Any questions contact Jackson Kiker 508-229-2270.

Page 1 of 1 coolers 2

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10/23/08 1550	1 [signature]	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserved where applica	On Ice:
5		5		☐	☐

KATAHDIN LABS

CHAIN OF CUSTODY

Accutest Job #:

Accutest Control #:

Client Information

Name: Environmental Chemical Corporation
Address: 33 Boston Post Road West, Suite 340
City: Marlborough, MA State: 01752 Zip:
Send Report to: Jackson Kiker
Phone #: 508-229-2270

Facility Information

Project Name: Old Navy Fuel Farm
Location: NASB Brunswick, Maine
Project No.: 5700.016
FAX #: 508-229-7737

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaS2o3	HNO3	H2So4	None	TCL VOC (BTEX + MTBE, 8260B)	EDB (50.41)	TPH GRO (Maine 4.2.17)	TPH DRO (Maine 4.1.25)	METHANE	Alkalinity, Sulfate, Nitrate	Ferrous Iron	TOTAL ORGANIC CARBON			
ONFF-QT1	10/23/08	0800	DC	TB	9	X	X				X	X	X		X						
MW-NASB-058	10/23/08	1050	DC	GW	8	X	X				X	X			X						
MW-NASB-098 ms/msd	10/23/08	1110	PL	GW	24	X	X				X	X			X						
MW-NASB-DUP1	10/23/08	00:00		GW	8	X	X				X	X			X						
MW-NASB-051	10/23/08	1230	DC	GW	8	X	X				X	X			X						
MW-NASB-207	10/23/08	1405	DC	GW	8	X	X				X	X			X						
MW-NASB-062	10/23/08	1340	PL	GW	8	X	X				X	X			X						
MW-NASB-208BR	10/24/08	1100	DC	GW	14	X	X		X	X	X	X		X***	X	X	X	X			
MW-NASB-210	10/24/08	1010	DC	GW	14	X	X		X	X	X	X		X***	X	X	X	X			
MW-NASB-702	10/24/08	1330	DC	GW	16	X	X		X	X	X	X	X	X***	X	X	X	X			
ONFF-RINSATE BLANK	10/24/08	1300	DC	RB	8	X	X				X	X		X							

Turnaround Information

- ☐ 21 Day Standard — Approved By:
- ☐ 14 Day
- ☐ 7 Days *EMERGENCY*
- ☐ Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- ☐ NJ Reduced
- ☐ NJ Full
- ☐ FULL CLP
- ☐ Disk Deliverable
- ☐ Other (Specify)
- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ ASP Category B
- ☐ State Forms

Comments / Remarks

*** DRO, with and without Silica Gel by the Alaska method. Any questions contact Jackson Kiker 508-229-2270.

Page 1 of 1 # of coolers: 2

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	10/24/08 1510	1 Deborah Thadeau	2		2
3		3	4		4
5		5	Seal #	Preserved where applica ☐	On Ice: ☐

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-B48

Date: 10/23/08
Sampler: P Lynch
PID Reading: 0.0

Start Time: 1000 **End Time:** 1215
Well Construction: 2" PVC
Depth to water: 7.25
Well Depth: 15.70
Water Column: 12.45
Total Volume Removed (L) 8.5

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	04611895AC
YSI	600 XLM	086 101420
LaMotte	2020e	Me 11297

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^{c}	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
0000	MW-NASB-DUP1	40 ml VOA	3	HCl	~~GRO~~ BTEX MTBE
0000	MW-NASB-DUP1	40 ml VOA	2	HCl	Methane
0000	MW-NASB-DUP1	40 ml VOA	3	$Na_2S_2O_3$	EDB
0000	MW-NASB-DUP1	40 ml VOA	2	H_2SO_4	TOC
0000	MW-NASB-DUP1	1 L Amber	2	HCl	DRO
0000	MW-NASB-DUP1	125 ml Poly	1	4°C	NO_3, SO_4, Alk

Comments

0000	MW-NASB-DUP1	250 ml poly	1	HCl	Ferrous Iron

Signature

10/23/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Date: 10/23/08
Location: NASB, Brunswick, ME
Sampler: David Comeau
Well ID: MW-NASB-207
PID Reading: 0.0

Start Time: 1302 **End Time:** 1405
Well Construction: 2" PVC
Depth to water: 6.13'
Well Depth: 17.62'
Water Column: 11.49'
Total Volume Removed (L) 16.05

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	04E8527 AE
YSI	600XL	01A0138 AA
Lamotte	Turbidimeter	11825
Grundfos	Controller	10594

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1305	1.05	350	7.06	13.18	5.99	339	6.79	121	22	clear
1315	2.5	250	7.11	15.43	6.26	342	3.94	62	7	clear
1325	2.5	250	7.12	15.53	6.23	336	2.79	48	5	clear
1330	1.25	250	7.13	15.59	6.23	327	2.39	38	4	clear
1335	1.25	250	7.13	15.54	6.20	306	2.08	26	2	clear
1340	1.25	250	7.12	15.52	6.20	292	1.74	19	2	clear
1345	1.25	250	7.13	15.30	6.18	287	1.56	14	1	clear
1350	1.25	250	7.13	15.24	6.18	285	1.44	12	1	clear
1355	1.25	250	7.13	15.28	6.19	281	1.32	10	1	clear
1400	1.25	250	7.13	15.23	6.18	279	1.23	9	1	clear
1405	1.25	250	7.13	15.24	6.17	277	1.20	9	0	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1405	MW-NASB-207	40ml vial	6	HCl, $Na_2S_2O_3$	BTEXMTBE EDB
1405	MW-NASB-207	1L Amber	2	HCl	DRO + Silica Gel
1405	MW-NASB-207	40ml vial	4	HCl, H_2SO_4	Methane TOC
1405	MW-NASB-207	125ml Poly	1	None	Nitrate Sulfate ALK
1405	MW-NASB-207	250ml Poly	1	HCl	Iron II

Comments

Signature

10/23/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW 208 BR

Date: 10/24/08
Sampler: PlynchM
PID Reading: 0.0

Start Time: 0900 **End Time:** 1115
Well Construction: 2" PVC FM
Depth to water: 5.95
Well Depth: 19.35
Water Column: 13.40
Total Volume Removed (L) 18L

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	04G 11895 AC
YSI	600XLM	08G 101420
LaMotte	2020e	ME 11297

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^{c}	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
0910	1.5	150	6.70	15.55	6.29	493	0.81	-46.4	177	cloudy
0920	1.5	150	6.71	17.10	6.26	490	0.67	-48.4	78	cloudy
0930	1.5	150	6.71	17.22	6.25	486	0.64	-47.2	61	clear
0940	1.5	150	6.71	17.66	6.24	486	0.62	-46.7	42	clear
0950	1.5	150	6.71	17.72	6.22	484	0.59	-45.0	38	clear
1010	3.0	150	6.71	17.82	6.21	482	0.56	-44.1	39	clear
1020	1.5	150	6.71	17.83	6.20	481	0.54	-40.8	29	clear
1030	1.5	150	6.71	18.03	6.20	481	0.53	-39.7	25	clear
1040	1.5	150	6.71	17.98	6.19	480	0.52	-38.4	25	clear
1050	1.5	150	6.71	17.90	6.18	480	0.51	-38.0	23	clear
1100	1.5	150	6.71	17.92	6.18	479	0.50	-37.8	22	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1100	MW-NASB-208BR	40 ml VOA	3	HCl	BTEX-MTBE
1100	MW-NASB-208BR	40 ml VOA	2	HCl	Methane
1100	MW-NASB-208BR	40 ml VOA	3	$Na_2S_2O_3$	EDB
1100	MW-NASB-208BR	40 ml VOA	2	H_2SO_4	TOC
1100	MW-NASB-208BR	1L Amber	2	HCl	DRO
1100	MW-NASB-208BR	.25L Poly	1	HCl	Ferrous Fe

Comments

1100 MW-NASB-208BR .125L Poly 1 4°C NO_3, SO_4, Alk

Signature

10/24/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Location: NASB, Brunswick, ME
Well ID: MW-NASB-210

Date: 10/24/08
Sampler: David Comeau
PID Reading: 0.0

Start Time: 0906 **End Time:** 1010
Well Construction: 2" PVC
Depth to water: 7.56'
Well Depth: 16.54'
Water Column: 8.98'
Total Volume Removed (L) 12.5

Field Testing Equipment

Make	Model	Serial #
YSI	650MDS	04E8527AE
YSI	600XL	01A0138AA
Lamotte	Turbidimeter	11925
Grundfos	Controller	10594

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
0910	1.5	375	7.59	12.24	9.26	124	8.61	15	61	cloudy
0920	3.0	300	7.60	14.76	6.95	110	4.64	84	39	cloudy
0930	3.0	300	7.60	15.97	6.36	104	2.88	74	14	clear
0940	2.5	250	7.60	16.25	6.06	106	1.90	61	9	clear
0950	2.5	250	7.60	16.34	5.94	108	1.44	51	6	clear
0955	1.25	250	7.60	16.42	5.91	109	1.39	45	4	clear
1000	1.25	250	7.60	16.33	5.90	107	1.32	44	3	clear
1005	1.25	250	7.60	16.35	5.89	110	1.27	42	3	clear
1010	1.25	250	7.60	16.42	5.87	112	1.25	41	2	clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1010	MW-NASB-210	40ml vial	8	HCl, $Na_2S_2O_3$	BTEX+MTBE, EDB, Methane
1010	MW-NASB-210	1L Amber	2	HCl	DRO + Silica Gel
1010	MW-NASB-210	250ml Poly	1	HCl	Iron II
1010	MW-NASB-210	125ml Poly	1	None	Nitrate, Sulfate, Alk
1010	MW-NASB-210	40ml vial	2	H_2SO_4	TOC

Comments

D Comeau
Signature

10/24/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Date: 10/23/08
Location: NASB, Brunswick, ME
Sampler: David Comeau
Well ID: MW-NASB-701
PID Reading: 0.0

Start Time: — **End Time:** —
Well Construction: 2" PVC
Depth to water: —
Well Depth: —
Water Column: —
Total Volume Removed (L) —

Field Testing Equipment

Make	Model	Serial #
—		
—		
—		
—		

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^c	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
	No samples collected				

Comments Blockage @ 5.33'. unable to sample. tried to "punch through" Blockage and sample with 1/4 tubing + peristaltic pump, Denied.

Signature

10/23/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: Old Navy Fuel Farm
Location: NASB, Brunswick, ME
Well ID: MW-NASB-702

Date: 10/24/08
Sampler: P Lynch
PID Reading: 0.0

Start Time: 1130 **End Time:** 1400
Well Construction: 2" PVC
Depth to water: 7.05
Well Depth: 14.64
Water Column: 7.59
Total Volume Removed (L) 30L

Field Testing Equipment

Make	Model	Serial #
YSI	650 MDS	046 11895AC
YSI	600 XLM	086 101420
LaMotte	2020e	ME 11297

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^{c}	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
1140	2.5	250	7.31	15.47	6.20	104	2.88	85.1	112	Clear
1150	2.5	250	7.31	15.93	6.17	102	2.40	113.3	52	Clear
1200	2.5	250	7.31	15.98	6.16	103	2.17	119.1	41	Clear
1210	2.5	250	7.31	16.17	6.16	104	1.90	123.6	37	Clear
1220	2.5	250	7.31	16.21	6.15	107	1.73	126.8	33	Clear
1240	5.0	250	7.31	16.29	6.14	109	1.82	130.7	31	Clear
1300	5.0	250	7.31	16.52	6.13	108	1.98	135.9	24	Clear
1310	2.5	250	7.31	16.56	6.13	109	1.97	136.7	22	Clear
1320	2.5	250	7.31	16.57	6.15	108	1.94	135.9	21	Clear
1330	2.5	250	7.31	16.50	6.14	108	2.00	136.1	20	Clear
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
1330	MW-NASB-702	40ml VOA	5	HCl	GRO, MTBE, BTEX
1330	MW-NASB-702	40ml VOA	2	HCl	Methane
1330	MW-NASB-702	40ml VOA	3	$Na_2S_2O_3$	EDB
1330	MW-NASB-702	40ml VOA	2	H_2SO_4	TOC
1330	MW-NASB-702	1L Amber	2	HCl	DRO
1330	MW-NASB-702	.25L Poly	1	HCl	Ferrous Fe

Comments

1330	MW-NASB-702	.125L Poly	1	4°C	NO_3, SO_4, Alk

Signature

10/24/08
Date

Environmental Chemical Corporation

Low Flow/Low Stress Groundwater Sampling Log

Project: ONFF
Location: NASB, Brunswick, ME
Well ID: MW-NASB-703

Date: 10/23/08
Sampler: David Comeau
PID Reading: 0.0

Start Time: — **End Time:** —
Well Construction: 2" PVC
Depth to water: —
Well Depth: —
Water Column: —
Total Volume Removed (L) —

Field Testing Equipment

Make	Model	Serial #
—		
—		
—		
—		

Time	volume removed (liters)	Flow Rate (ml/min)	Depth To Water (ft)	Temp (celsius)	pH (STD)	SPC uS/cm^{c}	DO (mg/L)	ORP (mV)	Turbidity (NTU)	color
Acceptance Criteria:				3%	± 0.1	3%	10%	10%	<10	

2" screen volume = 0.163 gal/ft or 616 ml per foot

Sample Collection

Time	Sample ID	Container	# of Bottles	Preservative	Analyses
	No samples collected				

Comments Blockage @ 5.10', unable to collect samples. Tried to "punch through" blockage and sample with 1/4 tubing + peristaltic pump, Denied.

D. Comeau
Signature

10/23/08
Date

INSTRUMENT CALIBRATION LOG

Project/Site Name ONFF, ME.

Date 10/23/08

Weather 60, clear sky

Calibrated By David Comeau

Instrument YSI 650 MDS
~~YSI 600 XL~~

Serial Number 04E8527AE
01A0138 AA

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.409	18.17	
pH (7)	7.00	6.98	18.21	
pH (4)	4.00	4.12	18.28	
pH (10)	9.97	10.18	17.90	
ORP	240	237.4	18.24	
Dissolved Oxygen %	102.1%	102.3%	17.94	
Zero Dissolved Oxygen Mg/l	0.11	0.08	18.03	
Barometric Pressure	776.2			

INSTRUMENT CALIBRATION LOG

Project/Site Name ONFF, ME.

Date 12/23/08

Weather 60, clear Sky

Calibrated By David Comeau

Instrument YSI 650 MDS
YSI 600 XLM

Serial Number 04611895 AC
08610 1420

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.415	18.20	
pH (7)	7.00	7.01	18.34	
pH (4)	4.00	4.02	18.31	
pH (10)	10.01	9.96	18.03	
ORP	240	232.2	18.32	
Dissolved Oxygen %	97.9%	98.0%	17.71	
Zero Dissolved Oxygen Mg/l	0.20	0.08	18.05	
Barometric Pressure	744.0			

INSTRUMENT CALIBRATION LOG

Project/Site Name ONFF, ME.

Date 10/24/07

Weather 45°, clear sky

Calibrated By David Comeau

Instrument YSI 650 MDS
~~YSI 600XL~~

Serial Number 04E8527 AE
01A0138 AA

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.430	19.16	
pH (7)	7.00	7.09	19.13	
pH (4)	4.00	3.89	19.06	
pH (10)	10.09	10.12	19.47	
ORP	240	238.6	19.43	
Dissolved Oxygen %	101.7%	100.3%	18.97	
Zero Dissolved Oxygen Mg/l	0.08	0.10	19.17	
Barometric Pressure	772.9			

INSTRUMENT CALIBRATION LOG

Project/Site Name ONFF, ME. **Date** 10/24/08 **Weather** 45°, clear sky

Calibrated By David Comeau **Instrument** YSI 650 MDS, YSI 600 XLM **Serial Number** 04611895 AC, 08G101420

Parameters	Pre-calibration Reading	Post-calibration Reading	Temperature °C	Comments
Conductivity	1.413	1.410	19.29	
pH (7)	7.00	7.02	19.27	
pH (4)	4.00	4.01	19.27	
pH (10)	10.00	10.09	19.63	
ORP	240	237.9	19.65	
Dissolved Oxygen %	97.9%	99.3%	17.78	
Zero Dissolved Oxygen Mg/l	0.08	0.09	19.24	
Barometric Pressure	744			

INSTRUMENT CALIBRATION LOG

Project/Site Name ONFF, ME. **Calibrated By** David Comeau

Instrument/Serial Number	Pre-cal 0 (NTU)	Pre-cal 10 (NTU)	Post-cal 0 (NTU)	Post-cal 10 (NTU)	Date
Lamotte Turbidimeter 11825	0.0	10	0.0	9.6	10/23/08
Lamotte Turbidimeter 11297	0.0	10	0.0	9.8	10/23/08
Lamotte Turbidimeter 11825	0.0	10	0.0	10.4	10/24/08
Lamotte Turbidimeter 11297	0.0	10	0.0	9.6	10/24/08
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					
Lamotte Turbidimeter					

INSTRUMENT CALIBRATION LOG

Project/Site Name ONFF, Brunswick, ME. **Calibrated By** David Comeau

Instrument/Serial Number	Pre-calibration Reading	Post-calibration Reading	Calibration Gas/Concentration	Date
Photovac 20/20 PID ED FN 311	0.0 / 99.3	0.0 / 97.6	Isobutylene / 100ppm	10/23/08
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	
Photovac 20/20 PID			Isobutylene / 100ppm	

ENVIRONMENTAL CHEMICAL CORPORATION
DAILY TAILGATE SAFETY MEETING

Meeting conducted by: David Comeau Date: 10/23/08

Project Site: ONFF, ME. Task: Low-Flow Sampling

Personal protective Equipment:

Level D

Daily Activities:

Gauging,
Low-Flow Sampling @ ONFF

Hazards & Control Measures:

- its Below Freezing! Things tend to break easier in Cold weather. Be careful with equipment.

Emergency Procedures:

911/cell Phone/Buddy System

Hospital/Clinic: Mid-Coast Hospital
Address: 123 Medical Center Drive
Phone: 207-729-0181

Attendees

Name printed	Signature
Dave Comeau	
Paul Lynch	
Bob Phinney	Bob Phinney

ENVIRONMENTAL CHEMICAL CORPORATION
DAILY TAILGATE SAFETY MEETING

Meeting conducted by: David Comeau Date: 10/24/08

Project Site: ONFF, ME. Task: Low-Flow Sampling

Personal protective Equipment:

Level D

Daily Activities:

Low flow sampling @ ONFF

Hazards & Control Measures:

- ~~For~~ use vehicle for warmth, cold out today.
- make sure vehicle is off when filling sample Jars, possible cross contamination.

Emergency Procedures:

911 / cell phone / Buddy System

Hospital/Clinic:	Mid-Coast Hospital
Address:	123 Medical Center Drive
Phone:	207-729-0181

Attendees

Name printed	Signature
Dave Comeau	
Paul Lynch	
Bob Phinney	BoB Phinney

OLD FUEL FARM MONITORING WELL GAUGING SUMMARY October 2008

Well Designation	DATE	TIME	WELL CONDITION	PID (ppm)	Depth to Water (ft below Top of PVC Riser)	COMMENTS
MW-NASB-046	10/23/08	0904	Good	0.0	4.97	15.18 Total depth
MW-NASB-049	10/23/08	0907	Good	0.0	5.12	12.17 Total depth
MW-NASB-051	10/23/08	0900	Good	0.0	4.74	15.46 Total depth
MW-NASB-058	10/23/08	0910	Good	0.0	6.02	15.81 Total depth
MW-NASB-062	10/23/08	0818	Good	0.0	8.80	16.37 Total depth
MW-NASB-098	10/23/08	0823	see Below	0.0	7.25	15.70 Total depth
MW-NASB-206	10/23/08	0917	Good	0.0	5.81	17.16 Total depth
MW-NASB-207	10/23/08	0923	Good	0.0	6.39	17.50 Total depth
MW-NASB-208BR	10/23/08	0935	Good	0.0	6.94	19.32 Total depth
MW-NASB-209R	10/23/08	0940	Good	0.0	5.08	9.75 Total depth
MW-NASB-210	10/23/08	0829	Good	0.0	7.55	16.39 Total depth
MW-NASB-244	10/23/08	0912	Good FM	0.0	4.60	9.42 Total depth
MW-NASB-245	10/23/08	0931	Good FM	0.0	5.76	9.41 Total depth
MW-NASB-701	10/23/08	0834	see Below	0.0	—	Blockage @ 5.33'
MW-NASB-702	10/23/08	0836	Good	0.0	7.05	14.64 Total depth
MW-NASB-703	10/23/08	0838	see Below	0.0	—	Blockage @ 5.10

~~is~~ ~~Fumes~~ ~~in~~ ~~well~~ ~~02~~

* MW-NASB-098 Bent at slight angle. Well casing loose.
* MW-NASB-701 Well Damaged at some Point. Blockage @ 5.33'
* MW-NASB-703 Well Damaged @ Some Point. Blockage @ 5.10' Well cap broken, unable to lock

Paul Lynch 10/23/08

APPENDIX C

Data Validation Memos and Laboratory Analytical Results
(Form I's and MEDEP EDD format)

DATA VALIDATION MEMORANDUM
BRUNSWICK NAVAL AIR STATION
OLD NAVY FUEL FARM (ONFF)
DATA VALIDATION MEMORANDUM
APRIL 2008
(SDG: SB1916 & SB 1947)

TO:	MR. JACKSON KIKER, ECC SENIOR CHEMIST, MARLBOROUGH, MA
FROM:	SAMIR A. NAGUIB, H&S ENVIRONMENTAL, SENIOR QUALITY ASSURANCE CHEMIST, WESTBOROUGH, MA
SUBJECT:	BRUNSWICK NAS, OLD NAVY FUEL FARM
CLIENT NUMBER:	5700.016
DATE:	MAY 19, 2008

Project data were validated using the following Validation Functional Guidelines, as modified for non-CLP methods and project-specific QAPP measurement performance criteria (MPC):

1. Region I, EPA-NE Data Validation Functional Guidelines for Evaluation of Environmental Analyses (Dec, 1996).

2. National Functional Guidelines for Evaluation Organic Analysis (October 1999).

The data were assessed against the MPC listed in the approved LTMP QAPP (2000). The QAPP MPC and validation guidelines are assessed and documented on the method/QAPP specific data validation worksheets. On these data validation worksheets the data quality acceptance criteria are presented, analytes requiring qualification based on MPC and/or validation guidance criteria are listed, assigned qualifiers, qualifying rationale is documented, and any potential bias noted. The overall evaluation of the data generated by a method is presented in the data validation worksheet.

Standard EPA Region I data qualifiers are used to denote the assessment of data quality. The final and ranking assigned data qualifier for an analyte is presented in the data summary table. Ancillary qualifiers are noted on the data validation worksheets.

The USEPA Region I Organic Regional Data Assessment (ORDA) sheet displays the summarized results of the data validation assessment for all analytical methods reported in the SDG.

Presented in this Master Data Validation Memorandum are the data validation reports for the Sample Data Groups (SDG's) presented in Table I. Data validation reports are presented for each SDG. The USEPA Region I Organic Regional Data Assessment (ORDA) sheet displays the summarized results of the data validation assessment for all analytical methods reported in the SDG.

Acronym and abbreviations used in the data validation reports are presented in Table II.

Standard EPA Region I data qualifiers are used to denote the assessment of data quality. Ancillary qualifiers are noted on the data validation worksheets. Data qualifiers are defined in Table III. The final and ranking assigned data qualifier for an analyte is presented in Table IV- Data Summary Table.

SAMPLE DATA GROUP (SDG)

The VOC (BTEX+ MTBE), Gasoline Range Organics (ME-GRO), Diesel Range Organics (ME-DRO), Methane, Alkalinity, Sulfate, Nitrate as N, and Total Organic Carbon (TOC) data were validated according to USEPA Region I Tier II criteria. All QC parameters applicable to the method and Tier II criteria were validated and documented in the data worksheets.

Laboratory: The samples were analyzed by Katahdin Analytical Services, Scarborough, ME. Sample Matrix: Ground Water (GW).

The project's analytical samples were grouped in the SDG and analyzed for the parameters listed in Table 1.

Table I: Sample Data Group

FIELD SAMPLE NAME	LAB SAMPLE ID	VOC	GRO MEDEP 4.1.27	DRO MEDEP 4.1.25	METHANE	ALKALINITY, FERROUS IRON, NITRATE AS N, SULFATE, TOC
MW-NASB-051	SB1916-1			X		X
MW-NASB-058	SB1916-2			X		X
MW-NASB-098	SB1916-3			X		X
MW-NASB-DUP1	SB1916-4			X		X
MW-NASB-702	SB1916-5			X		X

Table I: Sample Data Group (cont.)

FIELD SAMPLE NAME	LAB SAMPLE ID	VOC	GRO MEDEP 4.1.27	DRO MEDEP 4.1.25	METHANE	ALKALINITY, FERROUS IRON, NITRATE AS N, SULFATE, TOC
ONOFF-QT1	SB1947-1	X	X		X	
MW-NASB-051	SB1947-2	X			X	
MW-NASB-058	SB1947-3	X			X	
MW-NASB-098	SB1947-4	X			X	
MW-NASB-DUP1	SB1947-5	X			X	
MW-NASB-702	SB1947-6	X	X		X	
MW-NASB-062	SB1947-7	X		X	X	X
MW-NASB-207	SB1947-8	X		X	X	X
MW-NASB-208BR	SB1947-9	X		X	X	X
MW-NASB-210	SB1947-10	X		X	X	X
ONFF-RINSATE BLANK	SB1947-11	X	X	X	X	

ACRONYMS AND ABBREVIATIONS

Following is a list of acronyms and abbreviations that may be used in the data validation reports.

Table II: Acronyms and Abbreviations

Acronym / Abbreviation	Definition
%D	Percent difference
%R	Percent recovery
Ug/L	Microgram per liter
BEHP/2-BEHP	2-bis(ethylhexyl)phthalate
BFB	Bromofluorobenzene
CCB	Continuing calibration Blank
CCC	Continuing Check Compound
CCV	Continuing Calibration Verification
COC	Chain of custody
COPC	Contaminants of potential concern
CRI	standard at RL for ICP
CVAA	Cold vapor atomic absorption
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DQO	Data quality objective
EB	Equipment blank
EPA	Environmental Protection Agency
FD	Field duplicate
GC	Gas Chromatography
GC/MS	Gas chromatography/mass spectrometry
HT	Holding time
ICAL	Initial calibration
ICS-A/AB	Interelement check standard A or AB
ICV	Initial calibration verification
IDL	Instrument detection limit

Acronym / Abbreviation	Definition
IS	Internal standards
LCL	Lower control limit
LCS	Laboratory control sample
MDL	Method detection limit
MeCl	Methylene chloride
MS	Matrix spike
MSD	Matrix spike duplicate
MPC	Measurement performance criteria
NA	Not applicable
NC	Not calculated.
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyls
PQL	Practical quantitation limit
QAPP	Quality Assurance Project Plan
QC	Quality control
RF	Response Factor
RPD	Relative percent difference
RRF	Relative response factor
RSD	Relative standard deviation
RT	Retention time
SDG	Sample Delivery Group
SOP	Standard Operation Procedure
SVOC	Semi-volatile organic compound
SPCC	System performance check compound
SQL	Sample Quantitation Limit
TB	Tripblank
TMX	Tetrachloro-m-xylene
TCX	Tetrachloro-m-xylene
TIC	Tentatively identified compound
UCL	Upper control limit
VOC	Volatile organic compound

DATA QUALIFIER REFERENCE TABLE

Data validation reports will summarize the samples reviewed, elements reviewed, any nonconformances with the established criteria, validation actions (including data qualifiers). Data qualifiers will be consistent with EPA Region I – New England guidelines and will consist of the following qualifiers listed in Table III:

Table III: Data Qualifiers

USEPA Region I – Data Qualifier	USEPA Region I – Qualifier Definition
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
UJ	The analyte was not detected above the sample reporting limit; and the reporting limit is approximate
U	The sample was analyzed for, but was not detected above the sample reporting limit.
R	The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified

Region I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT

LAB NAME: Katahdin Analytical Services
SDG: SB1916 & SB1947
EPA-NE DV TIER LEVEL: II
SITE NAME: Brunswick NAS-Old Navy Fuel Farm (ONFF)

# of SAMPLES/MATRIX: 8 Ground Water , 1 Trip Blank,1 Rinsate Blank and 1 Field Duplicate
VALIDATION CONTRACTOR: H&S Environmental, Inc.
VALIDATOR'S NAME: Samir A. Naguib
DV Completion Date: 05/19/2008
Date Sampled: 04/16-17/2008

ANALYTICAL DATA QUALITY SUMMARY

		VOC	GRO MEDEP 4.1.27	DRO MEDEP 4.1.25	Methane	Alkalinity, Ferrous Iron, Nitrate-N, Sulfate, TOC
1	Preservation and HT	O	O	O	O	-
2	Instrument Performance Check	O	-	-	-	-
3	Initial Calibration:	O	O	O	O	O
4	Continuing Calibration:	O	O	O	O	O
5	Blanks:	O	O	O	M	-
6	Surrogate Compounds:	O	O	O	-	-
7	Internal Standards	O	-	-	-	-
8	Matrix Spike/Matrix Spike Duplicate:	O	O	O	O	O
9	Sensitivity Check:	-	-	-	-	-
10	PE Samples- Accuracy Check	-	-	-	-	-
11	Target Compound Identification:	-	-	-	-	-
12	Compound Quantitation and Reported QLs	O	O	O	O	O
13	Tentatively Identified Compounds:	-	-	-	-	-
14	Semivolatile/Pesticide/PCB Cleanup:	-	-	-	-	-
15	Data Completeness	O	O	O	O	O
16	Overall Evaluation of Data:	O	O	O	O	O

O = Data had no problems or were qualified due to minor contractual problems; M = Data were qualified due to major/systemic MPC exceedences: Z = Data were rejected as unusable due to major contractual problems.

ACTION ITEMS: (Z items): No action items.

AREAS OF CONCERN: (M items): No actions items

Methane:

1. Blanks:

   1.1 Samples SB1947-2, -6, - 8, -10 qualified (U).

Ferrous Iron:

1. Sample Duplicate:

   1.1 Ferrous Iron in samples SB1947-7, -9, -10 qualified (J).
   1.2 Ferrous Iron in sample SB1947-8 qualified (UJ).

H&S Environmental Region I Data Review Worksheet **VOC's: SW-846 8260B**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	Ground Water	HCl	Two (2) sample coolers were received by Katahdin on 04/17/2008 at 4.4, 5.9°C	Katahdin Analytical Services, Scarborough, ME 04070	SB1947

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number	Sample Status
ONOFF-QT1	SB1947-1	Trip Blank
MW-NASB-051	SB1947-2	
MW-NASB-058	SB1947-3	
MW-NASB-098	SB1947-4	
MW-NASB-DUP1	SB1947-5	Field Duplicate of sample MW-NASB-098
MW-NASB-702	SB1947-6	
MW-NASB-062	SB1947-7	
MW-NASB-207	SB1947-8	
MW-NASB-208BR	SB1947-9	
MW-NASB-210	SB1947-10	
ONFF-RINSATE BLANK	SB1947-11	RINSATE BLANK

Note: Samples are described below in the data worksheets by reference to the last two digits of the Lab Sample Number

H&S Environmental Region I Data Review Worksheet **VOC's: SW-846 8260B**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
COC, Sample Delivery Group Form.	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R - nondetects preserved per method (amber bottles, temperature, HCl (aqueous), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	1. Cooler temperatures < 6 ^{o}C in all the coolers. Sample preservation using ice adequate. Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody. No qualifications were required.	X	-	
Holding Time	1) 14 Days to analysis, if preserved 2) J –detects, UJ or R –nondetects (function of time) 3) *transcription errors	1. Sample Date(s): 04/ 16-17/2008. All samples analyzed within holding times. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made. 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	NA	-	-	
Trip Blank (TB)	1) < 5x (<10x common) contaminants for aqueous samples-. 2) TGT analytes <Lab QL (contact lab) -for soils indicate TB (X rules apply to raw data) 3)MeCl & Acetone < 5 4) >RL report sample level U 5) <RL report PQL as U	1. Trip Blank (ONFF-QT1) analyzed on 04/29/2008 was free of contaminations. No qualifications were required.	X	-	
Equipment Blank (EB)	1) < 5x (<10x common) contaminants for aqueous samples- 2) TGT analytes <Lab QL (contact lab) -for soils indicate TB (X rules don't apply) 3) MeCl & Acetone < 5 *Check IS area (10% of them) * recalculate surrogate (%R – 10 % of them)	1. Rinsate Blank (ONOFF RINSATE BLANK) analyzed on 04/29/2008 was free of contaminations. No qualifications were required.	X	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated) listed on data summary sheet.	1. All results were within the linear calibration range. No qualifications were required.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
*TICs (if reported)	1) *verify library search for samples and blanks 2) verify TICs were not misreported compounds (different fraction or miss in search) 3) All TICs – J estimated 4) * verify blanks do not contain TIC peaks 5) * check TIC assignment spectra to STD spectra 6) *review blank and Samples for common lab contaminants	NA	-	-	
Surrogates	1. Refer to Table 13-1-EP in the LTMP (06/07) for water and soil *check raw data for surrogated (recalculate 10% of them). *Transcription errors Qualification: >UCL J –detects, %R<10% J –detects, R –NDs, %R >10% but <70% J-detects, UJ NDs	1. All surrogate recoveries within the QC limits. No qualifications were required.	X	-	
Laboratory Method Blanks (MB)	1) < 5x (<10x common) contaminants for aqueous and soil samples 2)TGT analytes <Lab QL	1. Method Blank associated with Batch ID: WG50837 analyzed on 04/28/2008 was free of contaminations. 2. Method Blank associated with Batch ID: WG50851 analyzed on 04/29/2008 was free of contaminations.	X	-	
Laboratory Control Sample (LCS) Recovery	1) LCS/LCSD acceptance limits Table 7-3-EP (LTMP 06/07) 2) 10% and <LCL% J detects, UJ –NDs 3) >UCL% J detects <10% R NDs, J-detects	1. All %REC's associated Batch ID: WG50837 analyzed on 04/28/2008 were within the QC limits. No qualifications were required. 2. All %REC's associated Batch ID: WG50851 analyzed on 04/29/2008 were within the QC limits. No qualifications were required.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
Matrix Spike/ Matrix Spike Duplicate (MS/MSD) Recovery	1) MS/MSD acceptance limits Table 7-3 (LTMP 01/06) 2) if MS > 4X native levels Qualification of MS sample: <10% J detects, R NDs >10% and <LCL% J detects, UJ -NDs >UCL% J detects 3) *Recalculate the concentrations for one compound in the MS/MSD * Recalculate the %R (within 10% of lab)	1. MS and MSD were performed on sample MW-NASB-098 (4). All %REC's were within the QC limits. No qualifications were required.	X	-	
MS/MSD RPD	RPD ≤20% (aqueous) and ≤40% (Soils) J –detects in MS sample UJ-non detects * recalculate RPD	1. All MS/MSD RPD's were within the QC limit. No qualifications were required.	X	-	
Field Duplicate RPD	1) RPD ≤ 30%, <40% gaseous VOCs water; ≤ 50 soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) If one >PQL, other ND, J-detections, UJ non-detect 3) Other conditions use judgement 4) Determine RPD for detects only. *Recalculate the concentrations for one compound and the PQL	1. Sample MW-NASB-DUP1 (5) was collected as field duplicate for sample MW-NASB-098 (4). Both samples were reported as non-detects. No qualifications were required.	X	-	
*MDL Study	1) *In accordance with 40CFR – seven replicates %RSD < 20% 2) * IS and retention times within method requirements 3)* performed annually 4)*MDL is at least ½ of PQL 5) *tgt and surrogate 80-120% R 6) *VOA/SV-X11 (recalculate %RSD and %R for three compounds (10% of them).	NA	-	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
Internal Standards	1) IS are –50% to 200% of last ICAL, or CCV 2)RRT<0.06 (30 sec) 3) IS>100% J-detects 4) IS<20%CCV NDs – R 5) IS>20%CCV <50%CCV NDs – UJ 6) *check for IS transcription errors	1. All IS %R and RTs are within Method limits.	X		
Sensitivity	1) MDL study – 7 replicates (40 CFR) 2) Surrogates %in control limits. 3) %R <10 ND- (R) , J- detects 4) 10%> but <LCL% , judgement 5) %R>UCL% J-detects 6)QC, IS, RRT meet criteria, 7)%RSD < 20% 8)MDL< MQL (3x less ideal) 9)Lab fortified blank (see VOA/SV Part II – section X). 10)*Check and recalculate %RSD's and %R for three compounds (with 10% of lab) <u>Dilution factors for samples – impacts to sensitivity</u>	1. No dilution was required.	X	-	
*Compound Quantitation (completed as part of other steps)	1) Check sensitivy (MDL< 1/3 PQL) 2) *Recalculate one detection and quantitation limit 3) *verify concentrations have been adjusted to account for DW, DF, 4) *verify correct IS and RRF were used	NA	-	-	
*System Performance	1)* evaluate PES, MS//MSD, cal STDs, MDS study, and surrogates for systemic bias – high or low and access system accuracy 2)*Matrix effects- MS/MSD, surrogated, PDS. 3) *System chromatography- evaluates RRTs, peaks shapes, system impacts on data, baseline shifts. 4) *overall system contamination-review all blanks for systemic or sporadic contamination.	NA	-	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
*TGT Compound Identification	1) *Within 0.06 (30 sec) of CCV RRT 2) * Compare sample Mass spectra to standard spectra; a) all ions in std spectra (with 10% rel intensity) present in sample spectra. B) sample ion abundance within 20% of standard spectra. 3) *chromatogram: all peaks greater than 10% of nearest IS identified.	NA	-	-	
Single Blind PE	1) Qualify associated samples in PES batch PES = ND, Detects J – ND PE analytes in samples, NDs – R 2)PES > acceptance criteria – Detects in samples J, 3)PES<acceptance criteria – Detects J, NDs –R 4)VOA/SV-XI14 other criteria 5) *% of PES sample above and below criteria 6) *Recalculate concentrations for one tgt compound per PES (10% of lab)	NA	-	-	
Tune check	1) ion abundance with method limits 2) *check for co-elution /proper background subtraction 3) *compare reported data to raw data	1. All tunes passed method criteria. No qualifications were required.	X	-	

H&S Environmental Region I Data Review Worksheet **VOC's: SW-846 8260B**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
Initial Cal Multipoint (instrument evaluation)	1) correct calibration stds 2) within 12 hours of the tune check 3) CCCs %RSD: <30% (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC (J –detects, R or UJ NDs all samples associated with ICAL) 4) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, Chlorobenzene>0.3, 1122TCA>0..3 (J –detects, R NDs) 5) RRF>0.05 all compounds 6) RRT < 0.06 units (all stds within 30 sec) 7) *verify that instrument parameters met method and that ICAL and analysis used the same parameters 8) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values. 9) *recalculate one tgt compound associated with each IS. Recalculated values within 10%. 10) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 11) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	1. Instrument: GCMS-T ICAL: 04/26/2008. Initial calibration met the established criteria.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED	Inventory	QUAL	BIAS
Continuing Calibration Verification (CCV)	1) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, chlorobenzene>0..3, 1122TCA>0..3 2) RRF all compounds > 0.05 *3)* CCC: (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC) %**D<20% (or** all analytes if no CCCs reported). *4)* Lab method limits for non SPCC/CCC's. 5) Qualification-J detects, R or UJ NDs 6) *verify same instrument and parameters 7) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10%) 8) *Recalculate %D for one tgt cmpd associated with each IS (within 10%) 9) *IS RRT<0.06 units (30 sec) 10) * IS area -50 % to 100 % of last ICAL 11) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 12) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	1. All %D's in the CCV (BTEX+MTBE) analyzed on 04/28-29/2008 were acceptable. No qualifications were required.	X	Refer to Tables 5 and 6	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	<u>Analytical Error Evaluation:</u> 1. ICAL: has acceptable fit for all reported compounds. 2. CCV: %D's were within limits. 4. LCS %REC's were acceptable. 5. MS/MSD %REC's and RPD's were acceptable. 6. All surrogates spikes recovered within the QC limits. 7. All method blanks were free of contaminations. <u>Sampling Error Evaluation:</u> 1. Sampling precision was acceptable.	X	-	

* Tier III review items only.

Completeness Check: Inventory Check Sheet <u>X.</u> Sample Quantitation Calculations (TIER III only)

H&S Environmental Region I Data Review Worksheet **ME-GRO: 4.1.27 9/95**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	Aqueous	HCl	five (5) sample coolers were received by Katahdin on 04/16-17/2008 at 3.8, 5.6, 6.0, 4.4 & 5.9°C	Katahdin Analytical Services, Scarborough, ME 04070	SB1947

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number	Sample Status
ONOFF-QT1	SB1947-1	Trip Blank
MW-NASB-702	SB1947-6	
ONFF-RINSATE BLANK	SB1947-11	RINSATE BLANK

Note: Samples are described below in the data worksheets by reference to the last two digits of the Lab Sample Number

H&S Environmental Region I Data Review Worksheet **ME-GRO: 4.1.27 9/95**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inventory	QUAL	BIAS
COC, Sample Delivery Group Form.	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R –non-detects preserved per method (amber bottles, temperature, HCl (aqueous), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	1. Sample temperature <6°C. Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody. No samples were qualified.	X	-	
Holding Time	1) 14 Days to analysis, if preserved 2) J –detects, UJ or R –nondetects (function of time) 3) *transcription errors	Sample Date: 04/16-17/2008 Analysis Date: 04/23/2008 Samples analyzed within holding times. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made (no USACE) 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	-	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	1. Data reported between the MDL and the MRL is qualified as estimated (J). Results for both samples were qualified J as they were > MDL but < MRL.	X	-	
Trip Blank (TB)	< 5x contaminants for aqueous samples	Trip Blank (ONOFF-QT1) analyzed on 04/23/2008 was free of contaminations. No qualifications were required.	X	-	
Equipment Blank (EB)	< 5x contaminants for aqueous samples	1. Rinsate Blank (ONOFF RINSATE BLANK) analyzed on 04/23/2008 was free of contaminations. No qualifications were required.	X	-	
Surrogates	Within historical laboratory limits (60-131%) Qualification: >UCL J –detects, %R<10% J –detects, R –NDs, %R >10% but <LCL% J-detects, UJ NDs	1. 4-Bromofluorobenzene surrogate spike recovered within the QC limits. No qualifications were required.	X	-	
Laboratory Blanks (method blanks)	1) < 5x (<10x common) contaminants – U 2) analytes <lab PQL (contract lab) 3) no phthalates >5X QL (QAPP)	1. Method Blank (WG50560-1) associated with sample(s): 1, 6, 11 was free of contaminations. No qualifications were required.	X	-	
Laboratory Control Sample (LCS) Recovery	1) Within historical laboratory limits listed in (QAPP) (60-140%). 10% and <LCL% J detects, UJ –NDs >UCL% J detects <10% R NDs, J-detects	1. LCS/LCSD (WG50560-2/3) associated with sample(s): 1, 6, 11 recovered within the QC limits. No qualifications were required.	X	-	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery	1) Within historical laboratory limits (QAPP) (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <60% J detects, UJ -NDs >140% J detects	1. The MS/MSD source sample was associated with a different SDG.	-	-	
Lab Duplicate RPD	RPD ≤30% aqueous, J –detects in MS sample UJ-non detects	1. NA	-	-	

H&S Environmental Region I Data Review Worksheet **ME-GRO: 4.1.27 9/95**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inventory	QUAL	BIAS
MS/MSD RPD	RPD ≤30% aqueous, <50% (S) J –detects in MS sample UJ-non detects	1. The MS/MSD RPD can not be evaluated due to association with a different SDG.	-	-	
Field Duplicate RPD	1) RPD ≤ 100% water; ≤ 100% soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) If one > PQL, other ND, J-detections, UJ non-detect Other conditions use judgment	1. Field duplicate was not submitted for this analysis.	-	-	
Initial Cal (Linearity)	Correct calibration stds %RSD < 20% use average RF for calibration %RSD> 20% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995 or alternatively mean %RSD <15% for all target analytes, with no analyte %RSD>30% or %RSD<30% each target analyte	1. Instrument: GC04 ICAL: 04/16/2008. Initial calibration met the established criteria. No qualifications were required.	X	-	
2nd Source ICV	%R (between ICV and ICAL) analytes 80%--120% (USACE) %D ≤ 20%, (+ or -) once per 5 pt cal Qualification: J detects, R or UJ NDs	NA	-	-	
CCV	%D ≤ 20% of the excepted response	1. CCV's analyzed on 04/23/2008 were within the QC limits. No qualifications were required.	X	-	
Compound Quantitation	1) Check sensitivity (MDL< 1/3 PQL or per QAPP)	No diluted samples. Analytical sensitivity is adequate. No samples qualified.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	Analytical Error Evaluation: 1. ICAL: Linear 2. CCV %D was acceptable. 3. LCS/LCSD %REC's and RPD were acceptable. 4. MS/MSD was not analyzed with this SDG. 5. Method blank was free of contaminations. Sampling Error Evaluation: Sampling precision was not evaluated for this analysis.	X	-	

*Tier III criteria.
Completeness Check: Inventory Check Sheet X. Sample Quantitation Calculations (TIER III ONLY)

H&S Environmental Region I Data Review Worksheet **ME-DRO: 4.1.25 9/95**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	Aqueous	HCl or H2SO4	Five (5) sample coolers were received by Katahdin on 04/16-17/2008 at 3.8, 5.6, 6.0, 4.4 & 5.9°C	Katahdin Analytical Services, Scarborough, ME 04070	SB1916 & SB1947

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number	Sample Status
MW-NASB-051	SB1916-1	
MW-NASB-058	SB1916-2	
MW-NASB-098	SB1916-3	
MW-NASB-DUP1	SB1916-4	Field Duplicate of sample MW-NASB-098
MW-NASB-702	SB1916-5	
MW-NASB-062	SB1947-7	
MW-NASB-207	SB1947-8	
MW-NASB-208BR	SB1947-9	
MW-NASB-210	SB1947-10	
ONFF-RINSATE BLANK	SB1947-11	RINSATE BLANK

Note: Samples are described below in the data worksheets by reference to the last two digits of the Lab Sample Number

H&S Environmental Region I Data Review Worksheet **ME-DRO: 4.1.25 9/95**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inventory	QUAL	BIAS
COC, Sample Delivery Group Form.	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R –non-detects preserved per method (amber bottles, temperature, HCl (aqueous), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	1. Sample temperature <6°C. Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody. No samples were qualified.	X	-	
Holding Time	1) 7 Days aqueous – 14 days soil (extract 40 days) 2) J –detects, UJ or R –nondetects (function of time)	Sample Date: 04/16-17/2008 Extraction Date: 04/18/2008 Analysis Date: 04/21-22/2008 Samples prepared/analyzed within holding times. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made (no USACE) 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	-	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	1. Data reported between the MDL and the MRL is qualified as estimated (J). Results for both samples were qualified J as they were > MDL but < MRL.	X	-	
Equipment Blank (EB)	< 5x (<10x common) contaminants for aqueous samples – for soil indicate EB (X rules don't apply)	1. Rinsate Blank (ONOFF) analyzed on 04/22/2008 was free of contaminations. No qualifications were required.	X	-	
Surrogates	Within historical laboratory limits (46-116%) Qualification: >UCL J –detects, %R<10% J –detects, R –NDs, %R >10% but <LCL% J-detects, UJ NDs	1. O-Terphenyl surrogate spike recovered within the QC limits. No qualifications were required.	X	-	
Laboratory Blanks (method blanks)	1) < 5x (<10x common) contaminants – U 2) analytes <lab PQL (contract lab) 3) no phthalates >5X QL (QAPP)	1. Method Blank (WG50417-1) associated with sample(s): SB1916 (1-5) and SB1947 (7-11) was free of contaminations. No qualifications were required.	X	-	
Laboratory Control Sample (LCS) Recovery	1) Within historical laboratory limits listed in (QAPP) (60-140%). 10% and <LCL% J detects, UJ –NDs >UCL% J detects <10% R NDs, J-detects	1. LCS (WG50417-2) associated with sample(s): SB1916 (1-5) and SB1947 (7-11) recovered at 82% within the QC limits. No qualifications were required.	X	-	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery	1) Within historical laboratory limits (QAPP) (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <60% J detects, UJ -NDs >140% J detects	1. MS and MSD were performed on sample MW-NASB-098 (SB1916-3). All %REC's were within the QC limits. No qualifications were required.	X	-	

H&S Environmental Region I Data Review Worksheet **ME-DRO: 4.1.25 9/95**
Project Location: Brunswick Naval Air Station, Brunswick, ME **Review Criteria: Region I Tier II**
Project Name: Old Navy Fuel Farm **Guidance and LTMP (2000)**
ECC Job No.: 5700.016

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inventory	QUAL	BIAS
Cleanup Performance Check (if performed)	%R< 10% NDs-R detections J %R>10% <LCL (80%GPC) –detections J, NDs UJ %R>UCL (120%) – detections J Retention Time shift <5%, symmetrical peakshape. GPC check with interferants. Good surrogate recovery, GPC blank check – no carryover.(VOA/SV-IX-I6). Sulfur and High MW compounds removed. Symmetrical peaks for all compounds,	NA	-	-	
Lab Duplicate RPD	RPD ≤30% aqueous, J –detects in MS sample UJ-non detects	1. Lab Duplicate was not performed. Only MS/MSD.	-	-	
MS/MSD RPD	RPD ≤30% aqueous, <50% (S) J –detects in MS sample UJ-non detects	1. MS/MSD RPD within MPC limits. No samples qualified. Laboratory precision is acceptable.	X	-	
Field Duplicate RPD	1) RPD ≤ 100% water; ≤ 100% soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) If one > PQL, other ND, J-detections, UJ non-detect Other conditions use judgment	1. Sample MW-NASB-DUP1 (SB1916-4) was collected as field duplicate for sample MW-NASB-098 (SB1916-3). Both results were reported below the reporting limit (50ug/L). No qualifications were required.	X	-	
Initial Cal (Linearity)	Correct calibration stds %RSD < 20% use average RF for calibration %RSD> 20% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995 or alternatively mean %RSD <15% for all target analytes, with no analyte %RSD>30% or %RSD<30% each target analyte	1. Instrument: GC10 ICAL: 04/08/2008. Initial calibration met the established criteria. No qualifications were required.	X	-	
2nd Source ICV	%R (between ICV and ICAL) analytes 80%--120% (USACE) %D ≤ 20%, (+ or -) once per 5 pt cal Qualification: J detects, R or UJ NDs	ICV for Instrument: GC10 Date: 04/08/2008 %D within MPC limits. Linearity of ICAL confirmed.	X	-	
CCV	%D ≤ 20% of the excepted response	1. CCV's analyzed on 04/21-22/2008 were within the QC limits. No qualifications were required.	X	-	
Compound Quantitation	1) Check sensitivity (MDL< 1/3 PQL or per QAPP)	No diluted samples. Analytical sensitivity is adequate. No samples qualified.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	<u>Analytical Error Evaluation:</u> 1. ICAL: Linear 2. CCV %D was acceptable. 3. LCS %REC was acceptable. 4. MS/MSD %REC's and RPD were acceptable. 5. Method blank was free of contaminations. <u>Sampling Error Evaluation:</u> Sampling precision was acceptable.	X	-	

*Tier III criteria.

Completeness Check: Inventory Check Sheet <u>X</u>. Sample Quantitation Calculations (TIER III ONLY)

H&S Environmental Region I Data Review Worksheet **METHANE:**
Project Location: Brunswick Naval Air Station, Brunswick, ME **USEPA Region-I, 07/01**
Project Name: Old Navy Fuel Farm **Review Criteria: Region I Tier II**
ECC Job No.: 5700.016 **Guidance and LTMP (2000)**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	Aqueous	HCl	Five (5) sample coolers were received by Katahdin on 04/16-17/2008 at 3.8, 5.6, 6.0, 4.4 & 5.9°C	Katahdin Analytical Services, Scarborough, ME 04070	SB1947

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number	Sample Status
ONOFF-QT1	SB1947-1	Trip Blank
MW-NASB-051	SB1947-2	
MW-NASB-058	SB1947-3	
MW-NASB-098	SB1947-4	
MW-NASB-DUP1	SB1947-5	Field Duplicate of sample MW-NASB-098
MW-NASB-702	SB1947-6	
MW-NASB-062	SB1947-7	
MW-NASB-207	SB1947-8	
MW-NASB-208BR	SB1947-9	
MW-NASB-210	SB1947-10	
ONFF-RINSATE BLANK	SB1947-11	RINSATE BLANK

Note: Samples are described below in the data worksheets by reference to the last two digits of the Lab Sample Number

H&S Environmental Region I Data Review Worksheet **METHANE:**
Project Location: Brunswick Naval Air Station, Brunswick, ME **USEPA Region-I, 07/01**
Project Name: Old Navy Fuel Farm **Review Criteria: Region I Tier II**
ECC Job No.: 5700.016 **Guidance and LTMP (2000)**

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inven-tory	QUAL	BIAS
COC, Sample Delivery Group Form.	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R –non-detects preserved per method (amber bottles, temperature, HCl (aqueous), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	1. Sample temperature <6°C. Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody. No samples were qualified.	X	-	
Holding Time	1) 14 Days to analysis, if preserved 2) J –detects, UJ or R –non-detects (function of time) 3) *transcription errors	Sample Date: 04/16-17/2008 Analysis Date: 04/24/2008 Samples analyzed within holding times. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made (no USACE) 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	-	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	1. Data reported between the MDL and the MRL is qualified as estimated (J). Results for both samples were qualified J as they were > MDL but < MRL.	X	-	
Trip Blank (TB)	< 5x contaminants for aqueous samples	Trip Blank (ONOFF-QT1) analyzed on 04/24/2008. **Table 1** **Compound** / **Conc. (µg/L)** / **Action Level (5x) (µg/L)** / **Sample(s) Affected** / **Action** Methane / 1.6 / 8.0 / 2, 6, 8, 10 / U	X	-	Refer e to Table 1
Equipment Blank (EB)	< 5x contaminants for aqueous samples	1. Rinsate Blank (ONOFF RINSATE BLANK) analyzed on 04/24/2008 was free of contaminations. No qualifications were required.	X	-	
Laboratory Blanks (method blanks)	1) < 5x (<10x common) contaminants – U 2) analytes <lab PQL (contract lab) 3) no phthalates >5X QL (QAPP)	1. Method Blank (WG50656-1) associated with samples analyzed on 04/24/2008 was free of contaminations. No qualifications were required.	X	-	
Laboratory Control Sample (LCS) Recovery	1) Within historical laboratory limits listed in (QAPP) (60-140%). 10% and <LCL% J detects, UJ –NDs >UCL% J detects <10% R NDs, J-detects	1. LCS (WG50656-2) associated with samples analyzed on 04/24/2008 recovered within the QC limits. No qualifications were required.	X	-	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery	1) Within historical laboratory limits (QAPP) (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <60% J detects, UJ -NDs >140% J detects	1. MS and MSD were performed on sample MW-NASB-098 (4). All %REC's were outside the QC limits due to the high concentration of methane in the native sample relative to the spike concentration (>4x). No qualifications were required.	X	-	
Lab Duplicate RPD	RPD ≤30% aqueous, J –detects in MS sample UJ-non detects	1. NA	-	-	

H&S Environmental Region I Data Review Worksheet **METHANE:**
Project Location: Brunswick Naval Air Station, Brunswick, ME **USEPA Region-I, 07/01**
Project Name: Old Navy Fuel Farm **Review Criteria: Region I Tier II**
ECC Job No.: 5700.016 **Guidance and LTMP (2000)**

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inven-tory	QUAL	BIAS
MS/MSD RPD	RPD ≤30% aqueous, <50% (S) J –detects in MS sample UJ-non detects	1. The MS/MSD RPD was outside the QC limits.	X	-	
Field Duplicate RPD	1) RPD ≤ 30% water; ≤ 50% soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) If one > PQL, other ND, J-detections, UJ non-detect Other conditions use judgment	1. Sample MW-NASB-DUP1 (5) was collected as a sample duplicate for sample MW-NASB-098 (4). RPD was acceptable. No qualifications were required. Please refer to Field Duplicate Summary Table.	X	-	
Initial Cal (Linearity)	Correct calibration stds %RSD < 20% use average RF for calibration %RSD> 20% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995 or alternatively mean %RSD <15% for all target analytes, with no analyte %RSD>30% or %RSD<30% each target analyte	1. Instrument: GC05 ICAL: 01/15/2008. Initial calibration met the established criteria. No qualifications were required.	X	-	
2nd Source ICV	%R (between ICV and ICAL) analytes 80%--120% (USACE) %D ≤ 20%, (+ or -) once per 5 pt cal Qualification: J detects, R or UJ NDs	NA	-	-	
CCV	%D ≤ 20% of the excepted response	1. CCV's analyzed on 04/24/2008 were within the QC limits. No qualifications were required.	X	-	
Compound Quantitation	1) Check sensitivity (MDL< 1/3 PQL or per QAPP)	1. Sample 9 was analyzed at 5x dilution in order to bring methane within the linear calibration range with elevated the reporting limit.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	<u>Analytical Error Evaluation:</u> 1. ICAL: Linear 2. CCV %D was acceptable. 3. LCS %REC's were acceptable. 4. MS/MSD %REC's and RPD were outside the QC limits due to the high concentration of methane in the native sample. 5. Method blank was free of contaminations. 6. Trip Blank: 6.1 Samples 2, 6, 8, 10 qualified (U). <u>Sampling Error Evaluation:</u> 1. Sampling precision was acceptable.	X	-	

*Tier III criteria.

Completeness Check: Inventory Check Sheet <u>X.</u> Sample Quantitation Calculations (TIER III ONLY)

H&S Environmental Region I Data Review Worksheet
Project Location: Brunswick Naval Air Station, Brunswick, ME
Project Name: Old Navy Fuel Farm
ECC Job No.: 5700.016

Alkalinity, EPA 310.1
Ferrous Iron, SM3500FE-D
Nitrate as N, EPA 353.2
Sulfate, EPA 375.4
Total Organic Carbon (TOC), EPA 415.1
Review Criteria: Region I Tier I Guidance and LTMP (2000)

Data Validation Level	Matrix	Preservation	Temp Sample Receipt	Laboratory	SDG Number
Tier I	Ground Water	-	Five (5) sample coolers were received by Katahdin on 04/16-17/2008 at 3.8, 5.6, 6.0, 4.4 & 5.9°C	Katahdin Analytical Services, Scarborough, ME 04070	SB1916 & SB1947

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number	Sample Status
MW-NASB-051	SB1916-1	
MW-NASB-058	SB1916-2	
MW-NASB-098	SB1916-3	
MW-NASB-DUP1	SB1916-4	Field Duplicate of sample MW-NASB-098
MW-NASB-702	SB1916-5	
MW-NASB-062	SB1947-7	
MW-NASB-207	SB1947-8	
MW-NASB-208BR	SB1947-9	
MW-NASB-210	SB1947-10	

Note: Samples are described below in the data worksheets by reference to the last two digits of the Lab Sample Number

H&S Environmental Region I Data Review Worksheet
Project Location: Brunswick Naval Air Station, Brunswick, ME
Project Name: Old Navy Fuel Farm
ECC Job No.: 5700.016

Alkalinity, EPA 310.1
Ferrous Iron, SM3500FE-D
Nitrate as N, EPA 353.2
Sulfate, EPA 375.4
Total Organic Carbon (TOC), EPA 415.1
Review Criteria: Region I Tier I Guidance and LTMP (2000)

EVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects 3) preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	1. Cooler temperatures <6C. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. Sample preservation within limits. No samples qualified.	X
Holding Time	Alkalinity: 14days. Nitrate as N and Nitrite as N: 48 hours. Sulfate: 28 days. TOC: 28 days. J –detects, UJ or R –nondetects (function of time).	1. All samples analyzed within the holding times. No qualifications were required.	X
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	The result was within the linear calibration range.	
Method Blanks	1) detects in blanks evaluated at <5X method blank detection	1. Method Blank for each analysis listed above was free of contaminations. No qualifications were required.	X
Laboratory Control Sample (LCS) Recovery	1) once per sample batch 2) 80-120% 3) <LCL% Reject 4) >UCL% detects J	1 LCS %R associated with each method listed above was within the Qc limits. No qualifications were required.	X
Matrix Spike (MS) Recovery	1) 75-125% if MS > 4X native levels) Qualification of MS sample: 2) <30% J detects, R NDs 3) 30%--74%, detects J, NDs UJ 4) >125% J detects	1. MS and MSD were performed for each method listed above on sample MW-NASB-098 (SB1916-3). All %REC's and RPD were acceptable. 2. MS was performed on sample MW-NASB-21 (SB1947-10) for Ferrous Iron. %REC was acceptable. No qualifications were required.	X
Laboratory Replicate RPD	RPD < 20% No QAPP criteria provided	1. Laboratory Duplicate was performed on sample MW-NASB-21 (SB1947-10). RPD was 50% outside the QC limits. 1.1 Ferrous Iron in samples SB1947-7, -9, -10 qualified (J). 1.2 Ferrous Iron in sample SB1948-8 qualified (UJ).	X

H&S Environmental Region I Data Review Worksheet
Project Location: Brunswick Naval Air Station, Brunswick, ME
Project Name: Old Navy Fuel Farm
ECC Job No.: 5700.016

Alkalinity, EPA 310.1
Ferrous Iron, SM3500FE-D
Nitrate as N, EPA 353.2
Sulfate, EPA 375.4
Total Organic Carbon (TOC), EPA 415.1
Review Criteria: Region I Tier I Guidance and LTMP (2000)

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
Field Duplicate RPD	RPD <30% for water	Sample MW-NASB-DUP1(SB1916-4) was collected as field duplicate for sample MW-NASB-098 (3). All RPD were acceptable. Please refer to Field Duplicate Summary Table.	-
Sensitivity*	1) MDL study – 7 replicates (40 CFR) 2) check and recalculate %RSDs and %R fir three compounds (with 10% of lab)	NA	-
Equipment Blank	< 5x contaminants for aqueous samples – for soil indicate EB (X rules don't apply)	Not Collected/analyzed with this SDG. Sample	
Initial Cal Multipoint	1. Within laboratory MPC.	ICAL calibration acceptable.	X
Continuing Calibration Blanks (CCB)	1. Within laboratory MPC.	NA	
2nd Source ICV	1) Within laboratory MPC.	ICV was within the QC limits.	X
CCV	2) Within laboratory MPC.	NA	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	<u>Analytical Problems:</u> 1. ICAL acceptable. 2. CCV: %D acceptable. MS/MSD %REC's and RPD's were acceptable. 3. Sample Duplicate: 3.1 Ferrous Iron in samples SB1947-7, -9, -10 qualified (J). 3.2 Ferrous Iron in sample SB1948-8 qualified (UJ) <u>Sampling Error Evaluation:</u> Sampling precision was acceptable.	

Completeness Check: Inventory Check Sheet X.

Field Duplicate Worksheet
SDG: SB1947
Brunswick Naval Air Station, Brunswick, ME
Old Navy Fuel Farm

Field Sample	Analyte	Analytical Method	Result	Units	Field Duplicate	Result	Units	RPD	Qualifier
MW-NASB-098	Methane	EPA Region I	890.0	µg/L	MW-NASB-DUP1	1100.0	µg/L	21.1	None

Field Sample	Analyte	Analytical Method	Result	Units	Field Duplicate	Result	Units	RPD	Qualifier
MW-NASB-098	Alkalinity	EPA310.1	25	mg/L	MW-NASB-DUP1	25	mg/L	0.0	None
MW-NASB-098	Ferrous Iron	SM3500FED	1.6	mg/L	MW-NASB-DUP1	1.6	mg/L	0.0	None
MW-NASB-098	Sulfate	EPA 375.4	9.8	mg/L	MW-NASB-DUP1	9.9	mg/L	1.0	None
MW-NASB-098	TOC	EPA 415.1	2.5	mg/L	MW-NASB-DUP1	2.4	mg/L	4.1	None

BRUNSWICK NAVAL AIR STATION, BRUNSWICK, ME
OLD NAVY FUEL FARM
DATA SUMMARY TABLE
AQUEOUS
SDG: SB1916 AND SB1947

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
MW-NASB-051	SB1916-1	EPA 310.1	04/16/08	1	ALKALINITY AS CACO3	14.	mg/L		0.19	5
MW-NASB-051	SB1916-1	EPA 353.2	04/16/08	1	NITRATE AS N	0.050	mg/L	U	0.015	.05
MW-NASB-051	SB1916-1	EPA 375.4	04/16/08	1	SULFATE	4.9	mg/L		0.29	1
MW-NASB-051	SB1916-1	EPA 415.1	04/16/08	1	TOTAL ORGANIC CARBON	1.4	mg/L		0.1	1
MW-NASB-051	SB1916-1	ME DEP 4.1.25	04/16/08	1	DIESEL RANGE ORGANICS	32	ug/L	J	32	50
MW-NASB-051	SB1916-1	SM 3500FE D	04/16/08	1	FERROUS IRON	0.25	mg/L		0.026	.1
MW-NASB-058	SB1916-2	EPA 310.1	04/16/08	1	ALKALINITY AS CACO3	39.	mg/L		0.19	5
MW-NASB-058	SB1916-2	EPA 353.2	04/16/08	1	NITRATE AS N	0.24	mg/L		0.015	.05
MW-NASB-058	SB1916-2	EPA 375.4	04/16/08	1	SULFATE	14.	mg/L		0.29	1
MW-NASB-058	SB1916-2	EPA 415.1	04/16/08	1	TOTAL ORGANIC CARBON	2.2	mg/L		0.1	1
MW-NASB-058	SB1916-2	ME DEP 4.1.25	04/16/08	1	DIESEL RANGE ORGANICS	50	ug/L	U	32	50
MW-NASB-058	SB1916-2	SM 3500FE D	04/16/08	1	FERROUS IRON	0.35	mg/L		0.026	.1
MW-NASB-098	SB1916-3	EPA 310.1	04/16/08	1	ALKALINITY AS CACO3	25.	mg/L		0.19	5
MW-NASB-098	SB1916-3	EPA 353.2	04/16/08	1	NITRATE AS N	0.050	mg/L	U	0.015	.05
MW-NASB-098	SB1916-3	EPA 375.4	04/16/08	1	SULFATE	9.8	mg/L		0.29	1
MW-NASB-098	SB1916-3	EPA 415.1	04/16/08	1	TOTAL ORGANIC CARBON	2.5	mg/L		0.1	1
MW-NASB-098	SB1916-3	ME DEP 4.1.25	04/16/08	1	DIESEL RANGE ORGANICS	42	ug/L	J	32	50
MW-NASB-098	SB1916-3	SM 3500FE D	04/16/08	1	FERROUS IRON	1.6	mg/L		0.026	.1
MW-NASB-DUP1	SB1916-4	EPA 310.1	04/16/08	1	ALKALINITY AS CACO3	25.	mg/L		0.19	5
MW-NASB-DUP1	SB1916-4	EPA 353.2	04/16/08	1	NITRATE AS N	0.050	mg/L	U	0.015	.05
MW-NASB-DUP1	SB1916-4	EPA 375.4	04/16/08	1	SULFATE	9.9	mg/L		0.29	1
MW-NASB-DUP1	SB1916-4	EPA 415.1	04/16/08	1	TOTAL ORGANIC CARBON	2.4	mg/L		0.1	1
MW-NASB-DUP1	SB1916-4	ME DEP 4.1.25	04/16/08	1	DIESEL RANGE ORGANICS	46	ug/L	J	32	50
MW-NASB-DUP1	SB1916-4	SM 3500FE D	04/16/08	1	FERROUS IRON	1.6	mg/L		0.026	.1
MW-NASB-702	SB1916-5	EPA 310.1	04/16/08	1	ALKALINITY AS CACO3	39.	mg/L		0.19	5
MW-NASB-702	SB1916-5	EPA 353.2	04/16/08	1	NITRATE AS N	0.51	mg/L		0.015	.05
MW-NASB-702	SB1916-5	EPA 375.4	04/16/08	1	SULFATE	1.0	mg/L	U	0.29	1
MW-NASB-702	SB1916-5	EPA 415.1	04/16/08	1	TOTAL ORGANIC CARBON	8.6	mg/L		0.1	1
MW-NASB-702	SB1916-5	ME DEP 4.1.25	04/16/08	1	DIESEL RANGE ORGANICS	50	ug/L	U	32	50
MW-NASB-702	SB1916-5	SM 3500FE D	04/16/08	1	FERROUS IRON	0.28	mg/L		0.026	.1
ONFF-QT1	SB1947-1	EPA Region 1	04/16/08	1	METHANE	1.6	ug/L	J	1.30	10
ONFF-QT1	SB1947-1	MEDEP 4.2.17	04/16/08	1	GASOLINE RANGE ORGANICS	10	ug/L	U	6.60	10
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	BENZENE	1	ug/L	U	0.40	1
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	O-XYLENE	1	ug/L	U	0.4	1

BRUNSWICK NAVAL AIR STATION, BRUNSWICK, ME
OLD NAVY FUEL FARM
DATA SUMMARY TABLE
AQUEOUS
SDG: SB1916 AND SB1947

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	TOLUENE	1	ug/L	U	0.3	1
ONFF-QT1	SB1947-1	SW846 8260B	04/16/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-210	SB1947-10	EPA 310.1	04/17/08	1	ALKALINITY AS CACO3	37.	mg/L		0.19	5
MW-NASB-210	SB1947-10	EPA 353.2	04/17/08	1	NITRATE AS N	1.3	mg/L		0.015	.05
MW-NASB-210	SB1947-10	EPA 375.4	04/17/08	1	SULFATE	18.	mg/L		0.29	1
MW-NASB-210	SB1947-10	EPA 415.1	04/17/08	1	TOTAL ORGANIC CARBON	7.6	mg/L		0.1	1
MW-NASB-210	SB1947-10	EPA Region 1	04/17/08	1	METHANE	1.4	ug/L	U	1.3	10
MW-NASB-210	SB1947-10	ME DEP 4.1.25	04/17/08	1	DIESEL RANGE ORGANICS	60	ug/L		32	50
MW-NASB-210	SB1947-10	SM 3500FE D	04/17/08	1	FERROUS IRON	0.12	mg/L	J	0.026	.1
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-210	SB1947-10	SW846 8260B	04/17/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
ONFF-RINSATE BLANK	SB1947-11	EPA Region 1	04/17/08	1	METHANE	10	ug/L	U	1.3	10
ONFF-RINSATE BLANK	SB1947-11	ME DEP 4.1.25	04/17/08	1	DIESEL RANGE ORGANICS	50	ug/L	U	32	50
ONFF-RINSATE BLANK	SB1947-11	MEDEP 4.2.17	04/17/08	1	GASOLINE RANGE ORGANICS	10	ug/L	U	6.6	10
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	BENZENE	1	ug/L	U	0.40	1
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	O-XYLENE	1	ug/L	U	0.4	1
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	TOLUENE	1	ug/L	U	0.3	1
ONFF-RINSATE BLANK	SB1947-11	SW846 8260B	04/17/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-051	SB1947-2	EPA Region 1	04/16/08	1	METHANE	2.2	ug/L	U	1.3	10
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-051	SB1947-2	SW846 8260B	04/16/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-058	SB1947-3	EPA Region 1	04/16/08	1	METHANE	10	ug/L	U	1.3	10
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	BENZENE	1	ug/L	U	0.4	1
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	ETHYLBENZENE	1	ug/L	U	0.4	1

BRUNSWICK NAVAL AIR STATION, BRUNSWICK, ME
OLD NAVY FUEL FARM
DATA SUMMARY TABLE
AQUEOUS
SDG: SB1916 AND SB1947

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	M-,P-XYLENE	2	ug/L	U	1	2
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-058	SB1947-3	SW846 8260B	04/16/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-098	SB1947-4	EPA Region 1	04/16/08	1	METHANE	890	ug/L		1.3	10
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-098	SB1947-4	SW846 8260B	04/16/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-DUP1	SB1947-5	EPA Region 1	04/16/08	1	METHANE	1100	ug/L		1.3	10
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-DUP1	SB1947-5	SW846 8260B	04/16/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-702	SB1947-6	EPA Region 1	04/16/08	1	METHANE	3.3	ug/L	U	1.3	10
MW-NASB-702	SB1947-6	MEDEP 4.2.17	04/16/08	1	GASOLINE RANGE ORGANICS	10	ug/L	U	6.6	10
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-702	SB1947-6	SW846 8260B	04/16/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-062	SB1947-7	EPA 310.1	04/17/08	1	ALKALINITY AS CACO3	14.	mg/L		0.19	5
MW-NASB-062	SB1947-7	EPA 353.2	04/17/08	1	NITRATE AS N	0.050	mg/L	U	0.015	.05
MW-NASB-062	SB1947-7	EPA 375.4	04/17/08	1	SULFATE	6.5	mg/L		0.29	1
MW-NASB-062	SB1947-7	EPA 415.1	04/17/08	1	TOTAL ORGANIC CARBON	5.8	mg/L		0.1	1
MW-NASB-062	SB1947-7	EPA Region 1	04/17/08	1	METHANE	11	ug/L		1.3	10
MW-NASB-062	SB1947-7	ME DEP 4.1.25	04/17/08	1	DIESEL RANGE ORGANICS	50	ug/L	U	32	50
MW-NASB-062	SB1947-7	SM 3500FE D	04/17/08	1	FERROUS IRON	0.87	mg/L	J	0.026	.1

BRUNSWICK NAVAL AIR STATION, BRUNSWICK, ME
OLD NAVY FUEL FARM
DATA SUMMARY TABLE
AQUEOUS
SDG: SB1916 AND SB1947

Sample Name	Lab ID	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	MDL	RL
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-062	SB1947-7	SW846 8260B	04/17/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-207	SB1947-8	EPA 310.1	04/17/08	1	ALKALINITY AS CACO3	120	mg/L		0.19	5
MW-NASB-207	SB1947-8	EPA 353.2	04/17/08	1	NITRATE AS N	0.19	mg/L		0.015	.05
MW-NASB-207	SB1947-8	EPA 375.4	04/17/08	1	SULFATE	3.2	mg/L		0.29	1
MW-NASB-207	SB1947-8	EPA 415.1	04/17/08	1	TOTAL ORGANIC CARBON	3.7	mg/L		0.1	1
MW-NASB-207	SB1947-8	EPA Region 1	04/17/08	1	METHANE	5.0	ug/L	U	1.3	10
MW-NASB-207	SB1947-8	ME DEP 4.1.25	04/17/08	1	DIESEL RANGE ORGANICS	36	ug/L	J	32	50
MW-NASB-207	SB1947-8	SM 3500FE D	04/17/08	1	FERROUS IRON	0.10	mg/L	UJ	0.026	.1
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-207	SB1947-8	SW846 8260B	04/17/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-208BR	SB1947-9	EPA 310.1	04/17/08	1	ALKALINITY AS CACO3	170	mg/L		0.19	5
MW-NASB-208BR	SB1947-9	EPA 353.2	04/17/08	1	NITRATE AS N	0.050	mg/L	U	0.015	.05
MW-NASB-208BR	SB1947-9	EPA 375.4	04/17/08	1	SULFATE	5.2	mg/L		0.29	1
MW-NASB-208BR	SB1947-9	EPA 415.1	04/17/08	1	TOTAL ORGANIC CARBON	2.9	mg/L		0.1	1
MW-NASB-208BR	SB1947-9	ME DEP 4.1.25	04/17/08	1	DIESEL RANGE ORGANICS	95	ug/L		32	50
MW-NASB-208BR	SB1947-9	SM 3500FE D	04/17/08	2	FERROUS IRON	15.1	mg/L	J	0.026	.2
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	BENZENE	1	ug/L	U	0.40	1
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	ETHYLBENZENE	1	ug/L	U	0.40	1
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	M-,P-XYLENE	2	ug/L	U	1.00	2
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	0.6	1
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	O-XYLENE	1	ug/L	U	0.4	1
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	TOLUENE	1	ug/L	U	0.3	1
MW-NASB-208BR	SB1947-9	SW846 8260B	04/17/08	1	XYLENES (TOTAL)	3	ug/L	U	0.4	3
MW-NASB-208BR	SB1947-9DL	EPA Region 1	04/17/08	5	METHANE	4600	ug/L		6.5	50

DATA VALIDATION MEMORANDUM
NAS BRUNSWICK – OLD NAVY FUEL FARM
OCTOBER 2008 SAMPLING ROUND (SDG ONFF-4)

TO: ENGINEERING FACILITY COMMAND NORTHEAST

FROM: JACKSON KIKER, ECC SENIOR CHEMIST, MARLBOROUGH, MA

SUBJECT: NAS BRUNSWICK – OLD NAVY FUEL FARM

DATE: DECEMBER 11, 2008

Project data were validated using the following Validation Functional Guidelines, as modified for non-CLP methods and Laboratory measurement performance criteria (MPC):

1. Region I, EPA-NE Data Validation Functional Guidelines for Evaluation of Environmental Analyses (Dec, 1996),

2. National Functional Guidelines for Evaluation Inorganic Analysis (1988), and

3. National Functional Guidelines for Evaluation Organic Analysis (October 1999).

The data were assessed against the laboratory QC limits and the validation guidelines.

The validation guideline exceedences are assessed and documented on the method/QAPP specific data validation worksheets. On these data validation worksheets the data quality acceptance criteria are presented, analytes requiring qualification based on MPC and/or validation guidance criteria exceedences are listed, assigned qualifiers, qualifying rationale is documented, and any potential bias noted. The overall evaluation of the data generated by a method is presented in the data validation worksheet.

Standard EPA Region I data qualifiers are used to denote the assessment of data quality. The final and ranking assigned data qualifier for an analyte is presented in the data summary table. Ancillary qualifiers are noted on the data validation worksheets.

The USEPA Region I Organic Regional Data Assessment (ORDA) sheet displays the summarized results of the data validation assessment for all analytical methods reported in the SDG.

ACRONYMS AND ABBREVIATIONS

Following is a list of acronyms and abbreviations that may be used in the data validation reports.

Acronym or Abbreviation	Definition
%D	Percent difference
%R	Percent recovery
Ug/L	Microgram per liter
BEHP	2-bis(ethylhexyl)phthalate
BFB	Bromofluorobenzene
CCB	Continuing calibration Blank
CCC	Continuing Check Compound
CCV	Continuing Calibration Verfication
COC	Chain of custody
CRI	standard at RL for ICP
CVAA	Cold vapor atomic absorption
DFTPP	Decafluorotriphenylphosphine
DQO	Data quality objective
EB	Equipment blank
EPA	Environmental Protection Agency
FD	Field duplicate
GC	Gas Chromatography
GC/MS	Gas chromatography/mass spectrometry
HT	Holding time
ICAL	Initial calibration
ICS-A/AB	Interelement check standard A or AB
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standards
LCL	Lower control limit
LCS	Laboratory control sample
MeCl	Methylene chloride
MDL	Method Detection Limit
MS	Matrix spike
MSD	Matrix spike duplicate
MPC	Measurement performance criteria
MRL	Method Reporting Limit
NA	Not applicable
NC	Not calculated.

Acronym or Abbreviation	Definition
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyls
PQL	Practical quantitation limit
QAPP	Quality Assurance Project Plan
QC	Quality control
RF	Response Factor
RPD	Relative percent difference
RRF	Relative response factor
RSD	Relative standard deviation
RT	Retention time
SDG	Sample Delivery Group
SOP	Standard Operation Procedure
SVOC	Semi-volatile organic compound
SPCC	System performance check compound
SQL	Sample Quantitation Limit
TB	Tripblank
TCX	Tetrachloro-m-xylene
TIC	Tentatively identified compound
UCL	Upper control limit
VOC	Volatile organic compound

DATA QUALIFIER REFERENCE TABLE

Data validation reports will summarize the samples reviewed, elements reviewed, any nonconformances with the established criteria, validation actions (including data qualifiers). Data qualifiers will be consistent with EPA Region I – New England guidelines and will consist of the following:

USEPA Region I – Data Qualifier	USEPA Region I – Qualifier Definition
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
UJ	The analyte was not detected above the sample reporting limit; and the reporting limit is approximate
U	The sample was analyzed for, but was not detected above the sample reporting limit.
R	The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified

Region I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT

LAB NAME: Katahdin Analytical Services, Inc.
SDG #:__ONFF-4
EPA-NE DV TIER LEVEL:___II___
SITE NAME: NAS Brunswick – Site Old Navy Fuel Farm

# of SAMPLES: 8 GW, 1-FD, 1 RB & 1 TB (GRO- 1 GW & 1 TB, only).
VALIDATION CONTRACTOR:__ECC/ASW
VALIDATOR'S NAME: Sherri Pullar
DV Completion Date:_,11 December 2008
Date Sampled: 23-24 October 2008.

ANALYTICAL DATA QUALITY SUMMARY

		VOC	GRO	DRO	Methane (MNA)	Method E504.1
1	Preservation and HT	O	O	O	O	O
2	Instrument Performance Check	O	O	O	O	O
3	Initial Calibration:	M	O	M	O	O
4	Continuing Calibration:	O	O	O	O	O
5	Blanks:	O	O	O	M	O
6	Surrogate Compounds:	O	O	O	O	O
7	Internal Standards	O	-	-	O	-
8	Matrix Spike/Matrix Spike Duplicate:	M	O	M	M	O
9	Sensitivity Check:	O	O	O	O	O
10	PE Samples- Accuracy Check	O	O	O	O	O
11	Target Compound Identification:	O	O	O	O	O
12	Compound Quantitation and Reported QLs	O	O	O	O	O
13	Tentatively Identified Compounds:	-	-	-	-	-
14	Semivolatile/Pesticide/PCB Cleanup:	-	-	O	-	-
15	Data Completeness	O	O	O	O	O
16	Overall Evaluation of Data:	O	O	O	O	O

O = Data had no problems or were qualified due to minor contractual problems; M = Data were qualified due to major/systemic MPC exceedences: Z = Data were rejected as unusable due to major contractual problems.

ACTION ITEMS: (Z items): None.

AREAS OF CONCERN: (M items):
VOC: Result for methyl tert-butyl ether was qualified UJ in sample 3 due to MS/MSD %R>MPC limit. Results for total xylene were qualified UJ in samples 1, 10, 12, 14, 2, 3, 4, 5, 6, 7, 8 due to ICV %D>MPC limits.
GRO: None.

DRO: Results between the MDL and MRL were qualified J. DRO result was qualified J in sample 2 due to MS/MSD %R outside MPC limits. Result for DRO in sample 13 was qualified J due to CCV %D outside MPC limits.

E504.1: None.

Methane (MNA): Results for methane in samples SB6114-10 & SB6114-2 were qualified U due to trip blank contamination. Results between the MDL and MRL were qualified J. Result for methane was qualified J in samples 3 & 4 due to MS/MSD %R outside MPC limits.

COMMENTS: Tier I validation was performed for Alkalinity, TOC, Ferrous, Nitrate and Sulfate analyses.

ECC Region I Data Review Worksheet (rv 3) **VOCs 5030B/5035/8260B**
Project: NAS Brunswick ONFF ECC Job No. 5700 **Review Criteria: ONFF GWM Plan & USEPA Region I Tier II Guidance**

Data Validation Level	Matrix	Preservation	Temp Sample Receipt	Laboratory	SDG Number
Tier II	**Aqueous**	**HCl**	**4 coolers – Temp (^{o}C): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification and Laboratory Number of Samples Evaluated:

Field ID	Lab Sample Number
ONFF-QT-1	SB6114-1
MW-NASB-058	SB6114-2
MW-NASB-098	SB6114-3
MW-NASB-DUP1	SB6114-4 field duplicate for SB6114-3
MW-NASB-051	SB6114-5
MW-NASB-207	SB6114-6
MW-NASB-062	SB6114-7
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12
ONFF-RINSATE BLANK	SB6114-14

Note: Samples are described below in the data worksheets by reference to the Lab Sample Number.

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects preserved per method (amber bottles, temperature, HCl (aq), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^{o}C. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X		
Holding Time	1) 14 Days to analysis, if preserved 2) J –detects, UJ or R –nondetects (function of time) 3) *transcription errors	All samples analyzed within holding time. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made. 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	X	-	
Lab Blanks (method blanks)	1) < 5x (<10x common) contaminants for aq samples- 2) <10X common contaminants – acetone, 2-butanone or Mecl. 1) TGT analytes <Lab QL 2) if linear range is exceeded, verify if a instrument blank was performed 3) *verify accurate transcription of times, Ids, are reported on forms 4) *verify from the raw data if the instrument blank was performed in the same vessel 5) *verify IS, RRT, and surrogate %R *check 10% of raw chromatograms for false +/-, check for transcription errors	Method blank non-detect for project COCs.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
Trip Blank	1) < 5x (<10x common) contaminants for aq samples- 2) TGT analytes <Lab QL (contact lab) -for soils indicate cross matrix TB (X rules apply to raw data) 4) MeCl & Acetone < 5 5) >RL report sample level U 6) <RL report PQL as U	SB6114-1 (ONFF-QT-1) was non-detect for all VOCs. No samples qualified.	X	-	
Equip Blank	1) < 5x (<10x common) contaminants for aq samples- 2) TGT analytes <Lab QL (contact lab) -for soils indicate TB (X rules don't apply) 3) MeCl & Acetone < 5 *Check IS area (10% of them) * recalculate surrogate (%R – 10 % of them)	SB6114-14 (ONFF-RINSATE BLANK) was non-detect for all VOC COCs. No samples qualified.	-	-	
Results > Cal Range or <Cal Range	6) >Upper Cal Range J-detects - ensure instrument blank performed 7) <PQL but >MDL – J –detects (estimated) listed on data summary sheet.	All results were non-detect.	X	-	
*TICs (if reported)	1) *verify library search for samples and blanks 2) verify TICs were not misreported compounds (different fraction or miss in search) 3) All TICs – J estimated 4) * verify blanks do not contain TIC peaks 5) * check TIC assignment spectra to STD spectra 6) *review blank and Samples for common lab contaminants	None Reported/not evaluated	-	-	
Surrogates	1,2-Dichloroethane-d4 65-135% Dibromofluoromethane 75-129% Toluene-d8 82%-120% 4-BFB 69%-125% *check raw data for surrogated (recalculate 10% of them). *Transcription errors Qualification: >UCL J –detects, %R<10% J –detects, R –Nods, %R >10% but <70% J-detects, UJ NDs	All reported surrogates within MPC. No samples qualified.	X	-	
LCS Recovery	1) Attachment A-2 of LTMP 2) All VOCs 60-140% 3) 10% and <LCL% J detects, UJ –Nods 4) >UCL% J detects <10% R NDs, J-detects 7) *Recalculate the concentrations for one compound in the LCS 8) * Recalculate the %R (within 10% of lab) Note: Tier guidance as a zero blind	All LCS recoveries are within MPC limits. No samples qualified.	X	-	
LCS/LCSD	1) LCS/LCSD RPD<20%	N/A	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
MS/MSD Recovery	2) Attachment A-2 of LTMP 3) 60-140% for all VOCs (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <LCL% J detects, UJ -NDs >UCL% J detects 3) *Recalculate the concentrations for one compound in the MS/MSD * Recalculate the %R (within 10% of lab)	MS/MSD was analyzed on sample SB6114-3 (MW-NASB-098). MS/MSD recoveries were within MPC limits with the exception of methyl tert-butyl ether.	-	Result for methyl tert-butyl ether was qualified UJ in sample 3.	
*MS/MSD/unspike sample RSD	1)For unspiked compounds if reported, Non- MS spike compounds <50% RSD calculated from MS/MSD/Unspiked Qualification: >50% RSD J-detects 2)*recalculate the RPD (within 10% of lab)	NA	-	-	
MS/MSD RPD	RPD ≤20% (aq/S) (when MS >QL) J – detects in MS sample UJ-non detects * recalculate RPD	MS/MSD was analyzed on sample MW-NASB-098. MS/MSD RPDs were within MPC limits. No samples qualified.	-	-	
Field Dup RPD	1) RPD ≤ 30% aq. ≤ 50 soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) Note: FD RPD not specified in QAPP. 30% will be used as the MPC, to be consistent with other NASB QAPPs. 3) If one >PQL, other ND, J-detections, UJ non-detect 4) Other conditions use judgement 5) Determine RPD for detects only. *Recalculate the concentrations for one compound and the PQL	Field sample SB6114-3 Field Duplicate SB6114-4 All FD and field sample results were non-detect. FD RPD not calculated. Similar results in both samples (non-detects). Overall sampling and analysis precision is acceptable.	X	-	
*MDL Study	1) *In accordance with 40CFR – seven replicates %RSD < 20% 2) * IS and retention times within method requirements 6) * performed annually 7) *MDL is at least ½ of PQL 8) *tgt and surrogate 80-120% R *VOA/SV-X11 (recalcuate %RSD and %R for three compounds (10% of them).	NA	-	-	
Internal Stds	1) IS are –50% to 200% of last Ical, or CCV 3) RRT<0.06 (30 sec) 4) IS>100% J-detects 5) IS<20%CCV NDs – R 6) IS>20%CCV <50%CCV NDs – UJ 7) *check for IS transcription errors 8) FBZ = fluroobenzene 9) CBZ = chlorobenzene-d5 10) DCB = 1,4 dichlorobenzene-d4	All IS are within MPC. No samples qualified	X	-	
Sensitivity	1) MDL study – 7 replicates (40 CFR) 2) Surrogates %in control limits. 4) %R <10 ND- (R) , J- detects 5) 10%> but <LCL% , judgement 6) %R>UCL% J-detects 5) QC, IS, RRT meet criteria, 6) %RSD < 20% 7) MDL< MQL (3x less ideal) 8) Lab fortitied blank (see VOA/SV Part II	BTEX & MTBE – the VOC's of concern. MRLs for benzene & MTBE are 1 µg/L.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
	–section X). 9) *Check and recalculate %RSDs and %R for three compounds (with 10% of lab) Dilution factors for samples – impacts to sensitivity				
*Compound Quantitation (completed as part of other steps)	1) Check sensitivy (MDL< 1/3 PQL) 2) *Recalculate one detection and quantitation limit 3) *verify concentrations have been adjusted to account for DW, DF, 4) *verifiy correct IS and RRF were used	NA	-	-	
*System Performance	1)* evaluate PES, MS//MSD, cal STDs, MDS study, and surrogates for systemic bias – high or low and access system accuracy 8) *Matrix effects- MS/MSD, surrogated, PDS. 9) *System chromatography- evaluate RRTs, peaks shapes, system impacts on data, baseline shifts. 10) *overall system contamination-review all blanks for systemic or sporadic contamination	NA	-	-	
*TGT Compound Identification	1) *Within 0.06 (30 sec) of CCV RRT 2) * compare sample Mass spectra to standard spectra; a) all ions in std spectra (with 10% rel intensity) presnent in sample spectra. B) sample ion abundance within 20% of standard spectra. 3) *chromatogram: all peaks greater than 10% of nearest IS identified.	NA	-	-	
Single Blind PE	1) Qualify associated samples in PES batch PES = ND, Detects J – ND PE analytes in samples, NDs – R 11) PES > acceptance criteria – Detects in samples J, 12) PES<acceptance criteria – Detects J, NDs –R 13) VOA/SV-XI14 other criteria 14) *% of PES sample above and below criteria *Recalculate concentrations for one tgt compound per PES (10% of lab)	NA	-	-	
Tune check	1) ion abundance with method limits 2) *check for co-elution /proper background subtraction 3) *compare reported data to raw data	All tunes passed method criteria. No samples qualified.	X	-	
Initial Cal Multipoint (instrument evaluation)	1) correct calibration stds 2) within 12 hours of the tune check 3) CCCs %RSD: <30% (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC (J –detects, R or UJ NDs all samples associated with Ical) 4) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, chlorobenzene>0.3, 1122TCA>0.3 (J –detects, R NDs) 5) RRF>0.05 all compounds 6) RRT < 0.06 units (all stds within 30 sec)	Instrument gcms-T Oct 21, 2008. RF, SPCC, and CCC are within method limits. No samples qualified.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
	7) %RSD<15% for all non-CCCs or COD>0.99 *8) RRF exclusions: surrogates, acetone, MeCL, chloroethane/methane, CS, 1,/22/03 2-butanone, 1,2 dichloropropane, 2-hexanone (IV-8)./* 9) *verify that instrument parameters met method and that Ical and analysis used the same parameters 10) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values. 11) *recalculate one tgt compound associated with each IS. Recalculated values within 10% 12) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 13) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)				
Initial Cal (Linearity)	%RSD < 15% use average RF for calibration %RSD> 15% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995 Qualification for compounds with : %RSD>30% and RRF>0.05 – J detects, UJ – NDs, %RSD<30% and RRF<0.05; -J detects, R – ND, %RSD>30% and RRF<0.05: J detects, R - ND (see VOA/SVIII-4)	Instrument gcms-T Oct 21, 2008. All compounds have linear calibration curves. No samples qualified.	X	-.	
2nd Source ICV	QC check or criteria not specified in QAPP. %D<25% or %R (between ICV and Ical) analytes 80%--120% (+ or -) once per 5 pt cal used to evaluate data sets. Qualification: J detects, R or UJ NDs	Instrument gcms-T Oct 30, 2008. ICV recoveries were within MPC with the exception of total xylene.	X	Results for total xylene were qualified UJ in samples 1, 10, 12, 14, 2, 3, 4, 5, 6, 7, 8.	
CCV	1) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, chlorobenzene>0.3, 1122TCA>0.3 2) RRF all compounds > 0.05 *3)* CCC: (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC) %D<20% (or all analytes if no CCCs reported). 4) Qualification-J detects, R or UJ NDs 5) *verify same instrument and parameters 6) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10%) 7) *Recalculate %D for one tgt cmpd associated with each IS (within 10%) 8) *IS RRT<0.06 units (30 sec) 9) * IS area -50 % to 100 % of last ICAL 10) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 11) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	Instrument gcms-T Oct 29, 2008. All project COCs are within MPC. No samples qualified. Instrument gcms-T Oct 30, 2008. All project COCs are within MPC. No samples qualified.	X		

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	Laboratory Error Evaluation; Laboratory precision and accuracy acceptable. Sample results are usable for making project decisions, as qualified. MS/MSD %R were within MPC limits with the exception of methyl tert-butyl ether. ICAL; within MPC limits for all VOC's of concern. ICV: within MPC limits with the exception of total xylenes. CCV: within MPC limits. Sampling error – Tripblank was non-detect for all VOCs. No apparent cross contamination. Field sample SB6114-3 Field Duplicate SB6114-4 All FD and field sample results were non-detect. FD RPD not calculated. Similar results in both samples (non-detects). Overall sampling and analysis precision is acceptable.	X	-	

* Tier III review items only.

Completeness Check: Inventory Check Sheet_____X__. Sample Quantitation Calculations (TIER III only):

Lab correspondence: None.

ECC Region I Data Review Worksheet (rv 2)
Project: NAS Brunswick ONFF ECC Job No. 5700

MEDEP 4.1.25 – Diesel Range Organics Review Criteria: ONFF GWM Plan & Region I Tier II Guidance

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	**Aqueous**	**-**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-058	SB6079-1
MW-NASB-098	SB6079-2
MW-NASB-DUP1	SB6079-3 field duplicate for SB6079-2
MW-NASB-051	SB6079-4
MW-NASB-207	SB6079-5
MW-NASB-062	SB6079-6
MW-NASB-207	SB6079-7
MW-NASB-062	SB6079-8
MW-NASB-210	SB6114-10
MW-NASB-210	SB6114-11
MW-NASB-702	SB6114-12
MW-NASB-702	SB6114-13
ONFF-RINSATE BLANK	SB6114-14
MW-NASB-208BR	SB6114-8
MW-NASB-208BR	SB6114-9

Note: Samples are described below in the data worksheets by reference to the Lab Sample Number.

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIAS
COC, Sample Delivery Group Form.	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects preserved per method (amber bottles, temperature, HCl (aq), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC in the coolers. Sample preservation using ice adequate. Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody. No samples qualified.	X	-	
Holding Time	1) 7 Days aqueous – 14 days soil (extract 40 days) 2) J –detects, UJ or R –nondetects (function of time)	All samples extracted and analyzed within required holding times. No sample qualifications.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made (no USACE) 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	-	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	Data reported between the MDL and the MRL qualified as estimated (J).	X	Results between the MDL and MRL were qualified J.	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIAS
Equip Blank	< 5x (<10x common) contaminants for aq samples – for soil indicate EB (X rules don't apply)	Rinsate blank – ONFF RINSATE BLANK was non-detect for DRO. No samples qualified.	X	-	
Surrogates	Within historical laboratory limits. p-terphenyl – 60% to 140%. Qualification: >UCL J – detects, %R<10% J –detects, R –NDs, %R >10% but <LCL% J-detects, UJ NDs	Surrogate within MPC limits.	X	-	
Lab Blanks (method blanks)	1) < 5x (<10x common) contaminants – U 2) analytes <lab PQL (contract lab) no phthalates >5X QL (QAPP)	Method blanks were non-detects for DRO's. No samples qualified.	X	-	
LCS Recovery	1) Within historical laboratory limits -60% to 140% 10% and <LCL% J detects, UJ –NDs >UCL% J detects <10% R NDs, J-detects	All LCS recoveries within MPC limits. No samples qualified.	X	-	
LCS/LCSD	LCS/LCSD RPD <20%	LCS/LCSD RPD within MPC. Laboratory precision is acceptable. No samples qualified.	X	-	
MS/MSD Recovery	1) Within historical laboratory limits (QAPP) (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <70% J detects, UJ -NDs >130% J detects	MS/MSD analyzed for native sample MW-NASB-098. MS/MSD recoveries were outside MPC limits.	X	DRO result was qualified J in sample 2.	
MS/MSD RPD	MS/MSD RPD <20%	MS/MSD analyzed for native sample MW-NASB-098. MS/MSD RPD was inside MPC limits. No samples qualified.	X	-	
Cleanup Performance Check (if performed)	%R< 10% NDs-R detections J %R>10% <LCL (80%GPC) –detections J, NDs UJ %R>UCL (120%) – detections J Retention Time shift <5%, symmetrical peakshape. GPC check with interferants. Good surrogate recovery, GPC blank check – no carryover.(VOA/SV-IX-I6). Sulfur and High MW compounds removed. Symetrical peaks for all compounds,	Samples SB6114-9, SB6114-11, and SB6114-13 were put through a silica gel column cleanup.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIAS
Field Dup RPD	1) RPD ≤ 100% water; ≤ 100% soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) If one > PQL, other ND, J-detections, UJ non-detect Other conditions use judgement	Field sample SB6079-2 Field Duplicate SB6079-3 FD RPD was within MPC limits. Overall sampling and analysis precision is acceptable.	X	-	
Initial Cal (Linearity)	Correct calibration stds 1) COD>0.99 or %RSD<20%	Instrument ID: GC10 Dates: 11/03/08. COD > 0.99. Calibration acceptable. No samples qualified based on ICAL.	X	-	
2nd Source ICV	%D ≤ 20%, (+ or -) once per 5 pt cal Qualification: J detects, R or UJ NDs	Instrument ID: GC10 Dates: 11/03/08. %D within MPC limits for DRO. No samples qualified.	X		
CCV	CCV %D<20%	Instrument ID: GC10 Dates: 11/03/08. %D within MPC limits for DRO. No samples qualified. Instrument ID: GC10 Dates: 11/04/08. %Ds within MPC limits for DRO. No samples qualified. Instrument ID: GC10 Dates: 11/05/08. %D outside MPC limits for DRO.	X	Result for DRO in sample 13 was qualified J.	
Resolution Stanard/Low-level recovery	1) 60-140%	Within limits.	X	-	
Compound Quantitation	2) Check sensitivity (MDL< 1/3 PQL or per QAPP)	No sample dilutions required.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	Laboratory Error Evaluation: The laboratory accuracy and precision are acceptable and no apparent sample matrix bias. Results are usable for making project decisions. Surrogate within MPC limits. Method blank – non-detect for DRO's. MS/MSD recoveries were outside MPC limits for DRO. MS/MSD RPD was within MPC limits. Resolution Check within limits. ICAL; linear. ICV: confirms ICAL. CCV: within MPC limits with the exception of DRO associated with sample 13. Sampling Error Evaluation:	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIAS
		Rinsate blank –ONFF RINSATE BLANK non-detect for DRO. Field Duplicate: Field sample SB6079-2 Field Duplicate SB6079-3 FD RPD was within MPC limits. Overall sampling and analysis precision is acceptable.			

*Tier III criteria.

Completeness Check: Inventory Check Sheet_____X__ Sample Quantitation Calculations (TIER III ONLY):

ECC Region I Data Review Worksheet (rv 2)
Project: NAS Brunswick ONFF ECC Job No. 5700

MEDEP 4.2.17 – Gasoline Range Organics Review Criteria: ONFF GWM Plan & Region I Tier II Guidance

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	**Aqueous**	**HCl**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG#** ONFF-4

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-207	SB6079-7
ONFF-QT-1	SB6114-1

Note: Samples are described below in the data worksheets by reference to the Lab Sample Number.

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIAS
COC, Sample Delivery Group Form.	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects preserved per method (amber bottles, temperature, HCl (aq), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC in the coolers. Sample preservation using ice adequate. Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody. No samples qualified.	X	-	
Holding Time	1) 14 days for analysis (extract 40 days) 2) J –detects, UJ or R –nondetects (function of time)	All samples prepared/analyzed within holding times. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made (no USACE) 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	-	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	All sample results are non-detect. No samples qualified.	X	-	
TICs (if reported)	1) *verify library search for samples and blanks 2) verify TICs were not misreported compounds (different fraction or miss in search) 3) All TICs – J estimated 4) * verify blanks do not contain TIC peaks 5) * check TIC assignment spectra to STD spectra 6) *review blank and Samples for common lab contaminants	None Reported	X	-	
Equip Blank	< 5x (<10x common) contaminants for aq samples – for soil indicate EB (X rules don't apply)	Equipment blank was not analyzed for GRO.	-	-	
Surrogates	Within historical laboratory limits 4-BFB – 60% to 140%. Qualification: >UCL J –detects, %R<10% J –detects, R –NDs, %R >10% but <LCL% J-detects, UJ NDs	All surrogate recoveries within MPC limits. No samples qualified.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIAS
Lab Blanks (method blanks)	1) < 5x (<10x common) contaminants – U 2) analytes <lab PQL (contract lab) no phthalates >5X QL (QAPP)	Method blanks had a GRO detection of 8.4 ug/L. Field sample results were non-detect. No samples qualified.	X	-	
Trip Blank	1) < 5x (<10x common) contaminants for aq samples- 2) TGT analytes <Lab QL (contact lab) -for soils indicate cross matrix TB (X rules apply to raw data) 3) MeCl & Acetone < 5 4) >RL report sample level U 5) <RL report PQL as U	Tripblank was non-detect for all compounds. TB is sample ONFF-QT-1.	X	-	
LCS Recovery	1) Within historical laboratory limits -60% to 140% 10% and <LCL% J detects, UJ –NDs >UCL% J detects <10% R NDs, J-detects	All LCS/LCSD recoveries within MPC limits. No samples qualified.	X	-	
MS/MSD Recovery	1) Within historical laboratory limits (QAPP) (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <70% J detects, UJ -NDs >130% J detects	MS/MSD was not analyzed. LCS/LCSD was analyzed instead. See LCS/LCSD for evaluation.	-	-	
MS/MSD RPD	1) MS/MSD RPD<20%	MS/MSD was not analyzed. LCS/LCSD was analyzed instead. See LCS/LCSD for evaluation.	X	-	
Cleanup Performance Check (if performed)	%R< 10% NDs-R detections J %R>10% <LCL (80%GPC) –detections J, NDs UJ %R>UCL (120%) – detections J Retention Time shift <5%, symmetrical peakshape. GPC check with interferants. Good surrogate recovery, GPC blank check – no carryover.(VOA/SV-IX-I6). Sulfur and High MW compounds removed. Symetrical peaks for all compounds,	NA	-	-	
LCS/LCSD RPD	RPD ≤30% aq, <50% (S) J –detects in MS sample UJ-non detects	LCS-LCSD analyzed - RPD within MPC limits. No samples qualified. Laboratory precision is acceptable	X	-	
Field Dup RPD	1) RPD ≤ 100% water; ≤ 100% soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) If one > PQL, other ND, J-detections, UJ non-detect Other conditions use judgement	No field duplicates collected for this SDG.	-	-	
Initial Cal (Linearity)	Correct calibration stds Calibration curve based upon linear regression. Cod>0.99 Or Average RF with the %RSD<20%	Instrument: GC04 Date: January 16, 2008. COD > 0.99. No samples qualified based on ICAL.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inve n-tory	QUAL	BIA S
2nd Source ICV	%R (between ICV and Ical) analytes 80%--120% (USACE) %D ≤ 25%, (+ or -) once per 5 pt cal Qualification: J detects, R or UJ NDs	Instrument: GC04 Date: January 16, 2008. %D within MPC limits. No samples qualified.	X		
CCV	Analyzed daily with samples. %D<20%	Instrument: GC04 Date: Oct 30, 2008. %D within MPC limits for GRO. No samples qualified.	X	-	
Compound Quantitation	1) Check sensitivity (MDL< 1/3 PQL or per QAPP)	RL requirements were met, no sample qualifications.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	Laboratory Error Evaluation: The laboratory accuracy and precision are acceptable and no apparent sample bias. Results are usable for making project decisions. Method blank – had a GRO detection of 8.4 ug/L. Field sample results were non-detect. No samples qualified.. LCS/LCSD analyzed – RPD within MPC limits. LCS/LCSD %R within MPC limits. ICAL; linear. ICV: confirms ICAL. CCV: within MPC limits. Sampling Error Evaluation: Tripblank was non-detect for VOCs. No apparent cross contamination No field duplicates collected/analyzed in this SDG.	X	-	

*Tier III criteria.

Completeness Check: Inventory Check Sheet_____X__ Sample Quantitation Calculations (TIER III ONLY):

ECC Region I Data Review Worksheet (rv 3) **Methane EPA Region 1 (3810)**
Project: NAS Brunswick ONFF ECC Job No. 5700 **Review Criteria: ONFF GWM Plan & USEPA Region I Tier II Guidance**

Data Validation Level	Matrix	Preservation	Temp Sample Receipt	Laboratory	SDG Number
Tier II	**Aqueous**	**HCl**	**4 coolers – Temp (^{o}C): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification and Laboratory Number of Samples Evaluated:

Field ID	Lab Sample Number
ONFF-QT-1	SB6114-1
MW-NASB-058	SB6114-2
MW-NASB-098	SB6114-3
MW-NASB-DUP1	SB6114-4 field duplicate for SB6114-3
MW-NASB-051	SB6114-5
MW-NASB-207	SB6114-6
MW-NASB-062	SB6114-7
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12

Note: Samples are described below in the data worksheets by reference to the Lab Sample Number.

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inventory	QUAL	BIAS
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects preserved per method (amber bottles, temperature, HCl (aq), MeOH/NAHSO4 (soils) (J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^{o}C. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X		
Holding Time	1) 14 Days to analysis, if preserved 2) J –detects, UJ or R –nondetects (function of time) 3) *transcription errors	All samples analyzed within holding time. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made. 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	Not applicable	X	-	
Lab Blanks (method blanks)	1) < 5x (<10x common) contaminants for aq samples- 2) <10X common contaminants – acetone, 2-butanone or Mecl. 1) TGT analytes <Lab QL 2) if linear range is exceeded, verify if a instrument blank was performed 3) *verify accurate transcription of times, Ids, are reported on forms 4) *verify from the raw data if the instrument blank was performed in the same vessel 5) *verify IS, RRT, and surrogate %R *check 10% of raw chromatograms for false +/-, check for transcription errors	Method blank non-detect for project COCs.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
Trip Blank	1) < 5x (<10x common) contaminants for aq samples- 2) TGT analytes <Lab QL (contact lab) -for soils indicate cross matrix TB (X rules apply to raw data) 4) MeCl & Acetone < 5 5) >RL report sample level U 6) <RL report PQL as U	SB6114-1 contained methane at 1.3 ug/L.	X	Results for methane in samples SB6114-10 & SB6114-2 were qualified U.	
Equip Blank	1) < 5x (<10x common) contaminants for aq samples- 2) TGT analytes <Lab QL (contact lab) -for soils indicate TB (X rules don't apply) 3) MeCl & Acetone < 5 *Check IS area (10% of them) * recalculate surrogate (%R – 10 % of them)	Not collected/analyzed with this SDG	-	-	
Results > Cal Range or <Cal Range	6) >Upper Cal Range J-detects - ensure instrument blank performed 7) <PQL but >MDL – J –detects (estimated) listed on data summary sheet.	Data reported between the MDL and the MRL qualified as estimated (J).	X	Results between the MDL and MRL were qualified J.	
LCS Recovery	1) Attachment A-2 of LTMP 2) All VOCs 60-140% 3) 10% and <LCL% J detects, UJ –Nods 4) >UCL% J detects <10% R NDs, J-detects 7) *Recalculate the concentrations for one compound in the LCS 8) * Recalculate the %R (within 10% of lab) Note: Tier guidance as a zero blind	All LCS recoveries are within MPC. No samples qualified.	X	-	
LCS/LCSD	1) LCS/LCSD RPD<20%	N/A	X	-	
MS/MSD Recovery	2) Attachment A-2 of LTMP 3) 60-140% for all VOCs (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <LCL% J detects, UJ -NDs >UCL% J detects 3) *Recalculate the concentrations for one compound in the MS/MSD * Recalculate the %R (within 10% of lab)	MS/MSD was analyzed on sample SB6114-3 (MW-NASB-098). MS/MSD recoveries were outside MPC limits.	-	Result for methane was qualified J in samples 3 & 4.	
MS/MSD RPD	RPD ≤20% (aq/S) (when MS >QL) J – detects in MS sample UJ-non detects * recalculate RPD	MS/MSD RPDs within MPC limits. No sample qualified.	-	-	
Field Dup RPD	1) RPD ≤ 30% aq. ≤ 50 soil for Results > PQL (FD pair only) J-detects (both > PQL) 2) Note: FD RPD not specified in QAPP. 30% will be used as the MPC, to be consistent with other NASB QAPPs. 3) If one >PQL, other ND, J-detections, UJ non-detect 4) Other conditions use judgement 5) Determine RPD for detects only. *Recalculate the concentrations for one compound and the PQL	Field sample SB6114-3 Field Duplicate SB6114-4 FD RPD was within MPC limits. Overall sampling and analysis precision is acceptable.	X	-	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
Sensitivity	1) MDL study – 7 replicates (40 CFR) 2) Surrogates %in control limits. 4) %R <10 ND- (R) , J- detects 5) 10%> but <LCL% , judgement 6) %R>UCL% J-detects 5) QC, IS, RRT meet criteria, 6) %RSD < 20% 7) MDL< MQL (3x less ideal) 8) Lab fortitied blank (see VOA/SV Part II –section X). 9) *Check and recalculate %RSDs and %R for three compounds (with 10% of lab) <u>Dilution factors for samples – impacts to sensitivity</u>	Samples 3 and 4 required 2X dilutions and sample 8 required 8X dilution.	X	-	
Initial Cal Multipoint (instrument evaluation)	1) correct calibration stds 2) within 12 hours of the tune check 3) CCCs %RSD: <30% (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC (J –detects, R or UJ NDs all samples associated with Ical) 4) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, chlorobenzene>0.3, 1122TCA>0.3 (J –detects, R NDs) 5) RRF>0.05 all compounds 6) RRT < 0.06 units (all stds within 30 sec) 7) %RSD<15% for all non-CCCs or COD>0.99 *8)* *<u>RRF exclusions: surrogates, acetone, MeCL, chloroethane/methane, CS, 1,/22/03 2-butanone, 1,2 dichloropropane, 2-hexanone (IV-8)./</u>* 9) *verify that instrument parameters met method and that Ical and analysis used the same parameters 10) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values. 11) *recalculate one tgt compound associated with each IS. Recalculated values within 10% 12) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 13) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	Instrument GC05 January 15, 2008. RF, SPCC, and CCC are within method limits. No samples qualified.	X	-	
Initial Cal (Linearity)	%RSD < 15% use average RF for calibration %RSD> 15% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995 Qualification for compounds with : %RSD>30% and RRF>0.05 – J detects, UJ – NDs, %RSD<30% and RRF<0.05; -J detects, R – ND, %RSD>30% and RRF<0.05: J detects, R - ND (see VOA/SVIII-4)	Instrument GC05 January 15, 2008. All compounds have linear calibration curves. No samples qualified.	X	-.	

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Rationale	Inven-tory	QUAL	BIAS
2nd Source ICV	QC check or criteria not specified in QAPP. %D<25% or %R (between ICV and Ical) analytes 80%--120% (+ or -) once per 5 pt cal used to evaluate data sets. Qualification: J detects, R or UJ NDs	Second source LCS used for ICV. LCS recoveries were within MPC.	X		
CCV	1) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, chlorobenzene>0.3, 1122TCA>0.3 2) RRF all compounds > 0.05 *3)* CCC: (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC) %D<20% (or all analytes if no CCCs reported). 4) Qualification-J detects, R or UJ NDs 5) *verify same instrument and parameters 6) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10%) 7) *Recalculate %D for one tgt cmpd associated with each IS (within 10%) 8) *IS RRT<0.06 units (30 sec) 9) * IS area -50 % to 100 % of last ICAL 10) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 11) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	Instrument GC05 October 31, 2008. All project COCs are within MPC. No samples qualified.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	Laboratory precision and accuracy acceptable. LCS within MPC limits. MS/MSD %R outside MPC limits. Sample results are usable for making project decisions, as qualified. ICAL; within MPC limits for all VOC's of concern. ICV: within MPC limits. CCV: within MPC limits. Sampling error – Trip blank SB6114-1 contained methane at 1.3 ug/L. Field sample SB6114-3 Field Duplicate SB6114-4 FD RPD was within MPC limits. Overall sampling and analysis precision is acceptable.	X	-	

* Tier III review items only.

Completeness Check: Inventory Check Sheet_____X__. Sample Quantitation Calculations (TIER III only):

Lab correspondence: None.

ECC Region I Data Review Worksheet **1,2-Dibromomethane E504.1**
Project: NAS Brunswick ONFF ECC Job No. 5700 **Review Criteria: ONFF GWM Plan & Region I Tier II Guidance**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier II	**Aqueous**	**-**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
ONFF-QT-1	SB6114-1
MW-NASB-058	SB6114-2
MW-NASB-098	SB6114-3
MW-NASB-DUP1	SB6114-4 field duplicate for SB6114-3
MW-NASB-051	SB6114-5
MW-NASB-207	SB6114-6
MW-NASB-062	SB6114-7
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12
ONFF-RINSATE BLANK	SB6114-14

Note: Samples are described below in the data worksheets by reference to the last three digits of the Lab Sample Number.

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inven-tory	QUAL	BIAS
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R - nondetects 3) Preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X	-	
Holding Time	1) 14 Days aqueous 2) J –detects, UJ or R –nondetects (function of time)	All samples analyzed within applicable holding times. No samples qualified.	X	-	
% Solids Check (SOLIDS)	30%<Solids: if no sample weight adjustment made (no USACE) 1) <10% R entire sample 2) 10%.> and <30%; J-detects, NDs -R	NA	-	-	
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	All results were non-detect.	X	-	

ECC Region I Data Review Worksheet (rv 3) **SVOCs 3510C/8270C**
Project: NAS Brunswick Site 9 ECC Job No. 5700 **Review Criteria: Site 09 QAPP & USEPA Region I Tier II Guidance**

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inven-tory	QUAL	BIAS
TICs (if reported)	1) *verify library search for samples and blanks 2) verify TICs were not misreported compounds (different fraction or miss in search) 3) All TICs – J estimated 4) * verify blanks do not contain TIC peaks 5) * check TIC assignment spectra to STD spectra 6) *review blank and Samples for	None Reported	X	-	
Equip Blank	< 5x (<10x common) contaminants for aq samples – for soil indicate EB (X rules don't apply)	SB6114-14 (ONFF-RINSATE BLANK) was non-detect. No samples qualified.	-	-	
Surrogates	Tetrachloro-M-Xylene 36-123% Qualification: >UCL J –detects, %R<10% J –detects, R –NDs, %R >10% but <36% J-detects, UJ NDs.	All surrogate %R's are within MPC. No samples qualified. Laboratory accuracy is acceptable.	X	-	
MS/MSD Recovery	1) Within QAPP limits. (if MS > 4X native levels) Qualification of MS sample: <10% J detects, R NDs >10% and <70% J detects, UJ -NDs >130% J detects	MS/MSD was analyzed on sample SB6114-3 (MW-NASB-098). MS/MSD recoveries were within MPC limits.	X	-	
MS/MSD RPD	1) RPD MCP per QAPP COCs not specified in the QAPP evaluated using laboratory control limits. 2) Criteria: J –detects in MS sample UJ-non detects	MS/MSD was analyzed on sample SB6114-3 (MW-NASB-098). MS/MSD RPDs were within MPC limits.	X	-	
LCS Recovery	1) Within QAPP limits 2) Compounds not listed in the QAPP but which are site COCs will be evaluated using laboratory historical limits. 3) 10% and <LCL% J detects, UJ –NDs >UCL% J detects <10% R NDs, J-detects	All LCS/LCSD %R's within limits. No sample results were qualified.	X	-	
Lab Blanks (method Blanks)	1) < 5x (<10x common) contaminants – U 2) analytes <lab PQL (contract lab) 3) no phthalates >5X QL (QAPP)	Method blank non-detect for project COCs.	X	-	

ECC Region I Data Review Worksheet (rv 3) **SVOCs 3510C/8270C**
Project: NAS Brunswick Site 9 ECC Job No. 5700 **Review Criteria: Site 09 QAPP & USEPA Region I Tier II Guidance**

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inven-tory	QUAL	BIAS
Field Dup RPD	1) RPD ≤ 30% water; Criteria not provided in QAPP. Bldg 95 criteria used for consistency. Results > PQL (FD pair only) J-detects (both > PQL) 2) If one > PQL, other ND, J-detections, UJ non-detect 3) Other conditions use judgement	Field sample SB6114-3 Field Duplicate SB6114-4 All FD and field sample results were non-detect. FD RPD not calculated. Similar results in both samples (non-detects). Overall sampling and analysis precision is acceptable.	X	-	
Initial Cal (Linearity)	Correct calibration stds %RSD < 15% use average RF for calibration %RSD> 15% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995 or alternatively mean %RSD <15% for all target analytes, with no analyte %RSD>30% or %RSD<30% each target analyte 1) met method and that Ical and analysis used the same parameters 2) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values. 3) *recalculate one tgt compound associated with each IS. Recalculated values within 10% 4) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 5) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	Instrument ID: GC01 11/06/08 %RSD<15% or COD>0.99. Linearity acceptable. CCCs and SPCC's within MPC. No samples qualified.	X	-	
2nd Source ICV	%D ≤ 25%, (+ or -) once per 5 pt cal Qualification: J detects, R or UJ NDs	Instrument ID: GC01 11/06/08 %D<25%, no sample qualified.	X	-	

ECC Region I Data Review Worksheet (rv 3) **SVOCs 3510C/8270C**
Project: NAS Brunswick Site 9 ECC Job No. 5700 **Review Criteria: Site 09 QAPP & USEPA Region I Tier II Guidance**

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED Narrative (samples listed on attached sheets)	Inven-tory	QUAL	BIAS
CCV	1) SPCCs Average minimum RRF >0.05 2) RRF all compounds > 0.05 3) CCC [%D<20%] 4) %D<20%. Non- CCCs Qualification-J detects, R or UJ Nods 5) %D<25% all compounds (Tier I). 6) RRF exclusions: surrogates, 7) *verify same instrument and parameters 8) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10%) 9) *Recalculate %D for one tgt cmpd associated with each IS (within 10%) 10) *IS RRT<0.06 units (30 sec) 11) * IS area -50 % to 100 % of last ICAL 12) *option-review preparation logs to ensure cal stds are traceable to NIST stds. 13) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package)	Instrument ID: GC01 11/06/08 All %D's within MPC limits. No samples qualified.	X	-	
Compound Quantitation	1) Check sensitivy with respect to QAPP MRLs and ARARs	Analytical sensitivity is acceptable. Select samples diluted.	X	-	
Overall Evaluation of Data	1) Appropriate method 2) Evaluate any analytical problems 3) Evaluate sampling errors – field contamination, sample hold times	Analytical Error Evaluation: The laboratory precision and accuracy are acceptable for all compounds. LCS/LCSD recoveries and RPDs within limits. MS/MSD recoveries and RPDs within limits. Surrogate recoveries with MPC limits. Method blanks were non-detect. ICAL; Within MPC limits. CCV: Within MPC limits. ICV: Within MPC limits. Sampling Error Evaluation: Field sample SB6114-3 Field Duplicate SB6114-4 All FD and field sample results were non-detect. FD RPD not calculated. Similar results in both samples (non-detects). Overall sampling and analysis precision is acceptable.	x	-	.

*Tier III criteria.

Completeness Check: Inventory Check Sheet_____X__ Sample Quantitation Calculations (TIER III ONLY):

LAB CORRESPONDENCE: None.

ECC Region I Data Review Worksheet **Ferrous SM3500 Fe D**
Project: Brunswick Site ONFF Job No. 5700 **TIER I**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier I	**Aqueous**	**-**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-058	SB6079-1
MW-NASB-098	SB6079-2
MW-NASB-DUP1	SB6079-3 field duplicate for SB6079-2
MW-NASB-051	SB6079-4
MW-NASB-207	SB6079-5
MW-NASB-062	SB6079-6
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects 3) preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X
Holding Time	1) J –detects, UJ or R –nondetects (function of time). Sample not qualified for a Tier I review.	All samples analyzed within holding time. No samples qualified.	X
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	none	X
Results	1) Results are provided by laboratory	provided	X
Calibration	1) calibration information provided, as per method SOP	provided	X
Accuracy Check	1) accuracy information provided, as per method SOP	Provided	X

Completeness Check: Inventory Check Sheet_____X__

ECC Region I Data Review Worksheet **Nitrate/Nitrite EPA 353.2**
Project: Brunswick Site ONFF Job No. 5700 **TIER I**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier I	**Aqueous**	**-**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-058	SB6079-1
MW-NASB-098	SB6079-2
MW-NASB-DUP1	SB6079-3 field duplicate for SB6079-2
MW-NASB-051	SB6079-4
MW-NASB-207	SB6079-5
MW-NASB-062	SB6079-6
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects 3) preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X
Holding Time	1) J –detects, UJ or R –nondetects (function of time). Sample not qualified for a Tier I review.	All samples analyzed within holding time. No samples qualified.	X
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	none	X
Results	1) Results are provided by laboratory	provided	X
Calibration	1) calibration information provided, as per method SOP	provided	X
Accuracy Check	1) accuracy information provided, as per method SOP	Provided	X

Completeness Check: Inventory Check Sheet_____X__

ECC Region I Data Review Worksheet **Nitrate/Sulfate EPA 375.4**
Project: Brunswick Site ONFF Job No. 5700 **TIER I**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier I	**Aqueous**	**-**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-058	SB6079-1
MW-NASB-098	SB6079-2
MW-NASB-DUP1	SB6079-3 field duplicate for SB6079-2
MW-NASB-051	SB6079-4
MW-NASB-207	SB6079-5
MW-NASB-062	SB6079-6
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects 3) preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X
Holding Time	1) J –detects, UJ or R –nondetects (function of time). Sample not qualified for a Tier I review.	All samples analyzed within holding time. No samples qualified. Incorrect hold times on EDDs	X
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	none	X
Results	1) Results are provided by laboratory	provided	X
Calibration	1) calibration information provided, as per method SOP	provided	X
Accuracy Check	1) accuracy information provided, as per method SOP	Provided	X

Completeness Check: Inventory Check Sheet_____X__

ECC Region I Data Review Worksheet **TOC EPA 415.1**
Project: Brunswick Site ONFF Job No. 5700 **TIER I**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier I	**Aqueous**	**H2SO4**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-058	SB6079-1
MW-NASB-098	SB6079-2
MW-NASB-DUP1	SB6079-3 field duplicate for SB6079-2
MW-NASB-051	SB6079-4
MW-NASB-207	SB6079-5
MW-NASB-062	SB6079-6
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects 3) preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X
Holding Time	1) J –detects, UJ or R –nondetects (function of time). Sample not qualified for a Tier I review.	All samples analyzed within holding time. No samples qualified.	X
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	none	X
Results	1) Results are provided by laboratory	provided	X
Calibration	1) calibration information provided, as per method SOP	provided	X
Accuracy Check	1) accuracy information provided, as per method SOP	Provided	X

Completeness Check: Inventory Check Sheet_____X__

ECC Region I Data Review Worksheet **Alkalinity EPA310.1**
Project: Brunswick Site ONFF Job No. 5700 **TIER I**

Data Validation Level	Matrix	Preservation	Temperature Sample Receipt	Laboratory	SDG Number
Tier I	**Aqueous**	**-**	**4 coolers – Temp (^oC): 4.2, 5.9, 5.2, & 3.9.**	**Katahdin Analytical Services, Inc. Scarborough, ME**	**Lab SDG# ONFF-4**

Field Identification of Samples Evaluated:

Field ID	Lab Sample Number
MW-NASB-058	SB6079-1
MW-NASB-098	SB6079-2
MW-NASB-DUP1	SB6079-3 field duplicate for SB6079-2
MW-NASB-051	SB6079-4
MW-NASB-207	SB6079-5
MW-NASB-062	SB6079-6
MW-NASB-208BR	SB6114-8
MW-NASB-210	SB6114-10
MW-NASB-702	SB6114-12

REVIEW ITEMS	ACCEPTANCE CRITERIA	SAMPLES AFFECTED/Narrative Evaluation	Inventory
COC	1)Unbroken custody (accept or if broken R) 2) Temp≤6° (Soil-J detects, R -nondetects 3) preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound)	Cooler temperatures < 6 ^oC. Sample preservation adequate. Sample custody transferred from Field Team Leader to lab sample courier. Unbroken Chain of Custody. No samples qualified.	X
Holding Time	1) J –detects, UJ or R –nondetects (function of time). Sample not qualified for a Tier I review.	All samples analyzed within holding time. No samples qualified.	X
Results > Cal Range or <Cal Range	1) >Upper Cal Range J-detects - ensure instrument blank performed 2) <PQL but >MDL – J –detects (estimated)	none	X
Results	1) Results are provided by laboratory	provided	X
Calibration	1) calibration information provided, as per method SOP	provided	X
Accuracy Check	1) accuracy information provided, as per method SOP	Provided	X

Completeness Check: Inventory Check Sheet_____X__

FIELD DUPLICATE WORKSHEET
SDG: ONFF-4

Field Sample Id	Analyte	Analytical Method	Result	Units	Qualifier	Field Duplicate Id	Result	Units	Qaulifier	FD RPD (%)
MW-NASB-098	ALKALINITY AS CACO3	EPA 310.1	21.	mg/L	J	MW-NASB-DUP1	14.	mg/L	J	**40**
MW-NASB-098	SULFATE	EPA 375.4	12.	mg/L		MW-NASB-DUP1	12.	mg/L		0
MW-NASB-098	TOTAL ORGANIC CARBON	EPA 415.1	2.4	mg/L		MW-NASB-DUP1	2.5	mg/L		4.1
MW-NASB-098	DIESEL RANGE ORGANICS	ME DEP 4.1.25	57	ug/L		MW-NASB-DUP1	56	ug/L		1.8
MW-NASB-098	FERROUS IRON	SM 3500FE D	3.1	mg/L		MW-NASB-DUP1	3.2	mg/L		3.2
MW-NASB-098	METHANE	EPA Region 1	1600	ug/L		MW-NASB-DUP1	1600	ug/L		0

NAS Brunswick ONFF – October 2008
DATA SUMMARY TABLE – SDG ONFF-4

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
MW-NASB-058	SB6079-1	EPA 310.1	10/23/08	1	ALKALINITY AS CACO3	65.	mg/L		5	.19
MW-NASB-058	SB6079-1	EPA 353.2	10/23/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-058	SB6079-1	EPA 375.4	10/23/08	1	SULFATE	14.	mg/L		1	.29
MW-NASB-058	SB6079-1	EPA 415.1	10/23/08	1	TOTAL ORGANIC CARBON	2.2	mg/L		1	.1023
MW-NASB-058	SB6079-1	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	47	ug/L	J	47	32
MW-NASB-058	SB6079-1	SM 3500FE D	10/23/08	1	FERROUS IRON	0.34	mg/L		.1	.026
MW-NASB-098	SB6079-2	EPA 310.1	10/23/08	1	ALKALINITY AS CACO3	21.	mg/L	J	5	.19
MW-NASB-098	SB6079-2	EPA 353.2	10/23/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-098	SB6079-2	EPA 375.4	10/23/08	1	SULFATE	12.	mg/L		1	.29
MW-NASB-098	SB6079-2	EPA 415.1	10/23/08	1	TOTAL ORGANIC CARBON	2.4	mg/L		1	.1023
MW-NASB-098	SB6079-2	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	57	ug/L	J	48	32
MW-NASB-098	SB6079-2	SM 3500FE D	10/23/08	1	FERROUS IRON	3.1	mg/L		.1	.026
MW-NASB-DUP1	SB6079-3	EPA 310.1	10/23/08	1	ALKALINITY AS CACO3	14.	mg/L	J	5	.19
MW-NASB-DUP1	SB6079-3	EPA 353.2	10/23/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-DUP1	SB6079-3	EPA 375.4	10/23/08	1	SULFATE	12.	mg/L		1	.29
MW-NASB-DUP1	SB6079-3	EPA 415.1	10/23/08	1	TOTAL ORGANIC CARBON	2.5	mg/L		1	.1023
MW-NASB-DUP1	SB6079-3	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	56	ug/L		52	34
MW-NASB-DUP1	SB6079-3	SM 3500FE D	10/23/08	1	FERROUS IRON	3.2	mg/L		.1	.026
MW-NASB-051	SB6079-4	EPA 310.1	10/23/08	1	ALKALINITY AS CACO3	23.	mg/L		5	.19
MW-NASB-051	SB6079-4	EPA 353.2	10/23/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-051	SB6079-4	EPA 375.4	10/23/08	1	SULFATE	4.3	mg/L		1	.29
MW-NASB-051	SB6079-4	EPA 415.1	10/23/08	1	TOTAL ORGANIC CARBON	1.4	mg/L		1	.1023
MW-NASB-051	SB6079-4	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	44	ug/L	J	47	32
MW-NASB-051	SB6079-4	SM 3500FE D	10/23/08	1	FERROUS IRON	0.44	mg/L		.1	.026
MW-NASB-207	SB6079-5	EPA 310.1	10/23/08	1	ALKALINITY AS CACO3	110	mg/L		5	.19
MW-NASB-207	SB6079-5	EPA 353.2	10/23/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-207	SB6079-5	EPA 375.4	10/23/08	1	SULFATE	3.3	mg/L		1	.29

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
MW-NASB-207	SB6079-5	EPA 415.1	10/23/08	1	TOTAL ORGANIC CARBON	2.8	mg/L		1	.1023
MW-NASB-207	SB6079-5	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	45	ug/L	J	47	32
MW-NASB-207	SB6079-5	SM 3500FE D	10/23/08	1	FERROUS IRON	0.10	mg/L	U	.1	.026
MW-NASB-062	SB6079-6	EPA 310.1	10/23/08	1	ALKALINITY AS CACO3	11.	mg/L		5	.19
MW-NASB-062	SB6079-6	EPA 353.2	10/23/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-062	SB6079-6	EPA 375.4	10/23/08	1	SULFATE	5.8	mg/L		1	.29
MW-NASB-062	SB6079-6	EPA 415.1	10/23/08	1	TOTAL ORGANIC CARBON	2.9	mg/L		1	.1023
MW-NASB-062	SB6079-6	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	35	ug/L	J	48	32
MW-NASB-062	SB6079-6	SM 3500FE D	10/23/08	1	FERROUS IRON	0.61	mg/L		.1	.026
MW-NASB-062	SB6079-8	ME DEP 4.1.25	10/23/08	1	DIESEL RANGE ORGANICS	48	ug/L	U	48	32
ONFF-QT1	SB6114-1	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0064
ONFF-QT1	SB6114-1	EPA Region 1	10/23/08	1	METHANE	1.3	ug/L	J	10	1.1
ONFF-QT1	SB6114-1	MEDEP 4.2.17	10/23/08	1	GASOLINE RANGE ORGANICS	10	ug/L	U	10	6.6
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4
ONFF-QT1	SB6114-1	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-210	SB6114-10	EPA 310.1	10/24/08	1	ALKALINITY AS CACO3	25.	mg/L		5	.19
MW-NASB-210	SB6114-10	EPA 353.2	10/24/08	1	NITRATE AS N	0.95	mg/L		.05	.0152
MW-NASB-210	SB6114-10	EPA 375.4	10/24/08	1	SULFATE	15.	mg/L		1	.29
MW-NASB-210	SB6114-10	EPA 415.1	10/24/08	1	TOTAL ORGANIC CARBON	8.9	mg/L		1	.1023
MW-NASB-210	SB6114-10	EPA 504.1	10/24/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0065
MW-NASB-210	SB6114-10	EPA Region 1	10/24/08	1	METHANE	4.3	ug/L	U	10	1.1
MW-NASB-210	SB6114-10	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	67	ug/L		47	32
MW-NASB-210	SB6114-10	SM 3500FE D	10/24/08	1	FERROUS IRON	0.25	mg/L		.1	.026
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	BENZENE	1	ug/L	U	1	.3

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-210	SB6114-10	SW846 8260B	10/24/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-210	SB6114-11	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	47	ug/L	U	47	34
MW-NASB-702	SB6114-12	EPA 310.1	10/24/08	1	ALKALINITY AS CACO3	31.	mg/L		5	.19
MW-NASB-702	SB6114-12	EPA 353.2	10/24/08	1	NITRATE AS N	0.19	mg/L		.05	.0152
MW-NASB-702	SB6114-12	EPA 375.4	10/24/08	1	SULFATE	4.7	mg/L		1	.29
MW-NASB-702	SB6114-12	EPA 415.1	10/24/08	1	TOTAL ORGANIC CARBON	19.	mg/L		1	.1023
MW-NASB-702	SB6114-12	EPA 504.1	10/24/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0064
MW-NASB-702	SB6114-12	EPA Region 1	10/24/08	1	METHANE	300	ug/L		10	1.1
MW-NASB-702	SB6114-12	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	1800	ug/L		48	32
MW-NASB-702	SB6114-12	MEDEP 4.2.17	10/24/08	1	GASOLINE RANGE ORGANICS	10	ug/L	U	10	6.6
MW-NASB-702	SB6114-12	SM 3500FE D	10/24/08	1	FERROUS IRON	0.16	mg/L		.1	.026
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-702	SB6114-12	SW846 8260B	10/24/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-702	SB6114-13	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	62	ug/L	J	48	35
ONFF-RINSATE BLANK	SB6114-14	EPA 504.1	10/24/08	1	1,2-DIBROMOETHANE	0.048	ug/L		.048	.0066
ONFF-RINSATE BLANK	SB6114-14	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	48	ug/L	U	48	32

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	BENZENE	1	ug/L	U	1	.3
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	O-XYLENE	1	ug/L	U	1	.3
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	TOLUENE	1	ug/L	U	1	.4
ONFF-RINSATE BLANK	SB6114-14	SW846 8260B	10/24/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-058	SB6114-2	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0065
MW-NASB-058	SB6114-2	EPA Region 1	10/23/08	1	METHANE	1.6	ug/L	U	10	1.1
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-058	SB6114-2	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-098	SB6114-3	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0065
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	UJ	1	.5
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
MW-NASB-098	SB6114-3	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-098	SB6114-3DL	EPA Region 1	10/23/08	2	METHANE	1600	ug/L	J	20	2.1
MW-NASB-DUP1	SB6114-4	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0065
MW-NASB-DUP1	SB6114-4DL	EPA Region 1	10/23/08	2	METHANE	1600	ug/L	J	20	2.1
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-DUP1	SB6114-4RA	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-051	SB6114-5	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.048	ug/L	U	.048	.0066
MW-NASB-051	SB6114-5	EPA Region 1	10/23/08	1	METHANE	21	ug/L		10	1.1
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-051	SB6114-5	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-207	SB6114-6	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0064
MW-NASB-207	SB6114-6	EPA Region 1	10/23/08	1	METHANE	45	ug/L		10	1.1

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-207	SB6114-6	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-062	SB6114-7	EPA 504.1	10/23/08	1	1,2-DIBROMOETHANE	0.047	ug/L	U	.047	.0065
MW-NASB-062	SB6114-7	EPA Region 1	10/23/08	1	METHANE	10	ug/L		10	1.1
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	O-XYLENE	1	ug/L	U	1	.3
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-062	SB6114-7	SW846 8260B	10/23/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-208BR	SB6114-8	EPA 310.1	10/24/08	1	ALKALINITY AS CACO3	170	mg/L		5	.19
MW-NASB-208BR	SB6114-8	EPA 353.2	10/24/08	1	NITRATE AS N	0.050	mg/L	U	.05	.0152
MW-NASB-208BR	SB6114-8	EPA 375.4	10/24/08	1	SULFATE	3.4	mg/L		1	.29
MW-NASB-208BR	SB6114-8	EPA 415.1	10/24/08	1	TOTAL ORGANIC CARBON	2.7	mg/L		1	.1023
MW-NASB-208BR	SB6114-8	EPA 504.1	10/24/08	1	1,2-DIBROMOETHANE	0.048	ug/L	U	.048	.0066
MW-NASB-208BR	SB6114-8	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	100	ug/L		48	32
MW-NASB-208BR	SB6114-8	SM 3500FE D	10/24/08	5	FERROUS IRON	18.	mg/L		.5	.13
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	BENZENE	1	ug/L	U	1	.3
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	ETHYLBENZENE	1	ug/L	U	1	.3
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	M-,P-XYLENE	2	ug/L	U	2	.7
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	METHYL TERT-BUTYL ETHER	1	ug/L	U	1	.5
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	O-XYLENE	1	ug/L	U	1	.3

Sample Name	Lab Id	Analytical Method	Sample Date	Dilution Factor	Analyte	Result	Unit	Qualifier	RL	MDL
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	TOLUENE	1	ug/L	U	1	.4
MW-NASB-208BR	SB6114-8	SW846 8260B	10/24/08	1	XYLENES (TOTAL)	3	ug/L	U	3	.3
MW-NASB-208BR	SB6114-8DL	EPA Region 1	10/24/08	5	METHANE	5700	ug/L		50	5.4
MW-NASB-208BR	SB6114-9	ME DEP 4.1.25	10/24/08	1	DIESEL RANGE ORGANICS	48	ug/L	U	48	35

FORM I's

APRIL 2008

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 01:30
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-2
Client ID: MW-NASB-051
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50837
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 02:02
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-3
Client ID: MW-NASB-058
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50837
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 13:54
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-4
Client ID: MW-NASB-098
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50851
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 02:34
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-5
Client ID: MW-NASB-DUP1
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50837
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 03:06
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-6
Client ID: MW-NASB-702
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50837
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 03:38
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-7
Client ID: MW-NASB-062
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50837
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 14:26
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-8
Client ID: MW-NASB-207
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50851
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		113%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 14:58
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-9
Client ID: MW-NASB-208BR
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50851
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 15:30
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-10
Client ID: MW-NASB-210
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50851
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		111%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 10:42
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-11
Client ID: ONFF-RINSATE BLANK
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50851
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 29-APR-2008 00:58
Report Date: 04/30/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-1
Client ID: ONFF-QT1
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: SW846 8260B
Lab Prep Batch: WG50837
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.4
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.4
	m+p-Xylenes	U	2	1.0	2	2	1.0
95-47-6	o-Xylene	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.6
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/16/08
Received Date: 04/16/08
Extraction Date: 04/18/08
Analysis Date: 21-APR-2008 23:14
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1916-1
Client ID: MW-NASB-051
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	32	1.0	50	50	32
	O-Terphenyl		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/16/08
Received Date: 04/16/08
Extraction Date: 04/18/08
Analysis Date: 21-APR-2008 23:52
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1916-2
Client ID: MW-NASB-058
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	50	1.0	50	50	32
	O-Terphenyl		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 07:36
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-7
Client ID: MW-NASB-062
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	50	1.0	50	50	32
	O-Terphenyl		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/16/08
Received Date: 04/16/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 00:30
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1916-3
Client ID: MW-NASB-098
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	42	1.0	50	50	32
	O-Terphenyl		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 08:13
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-8
Client ID: MW-NASB-207
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	36	1.0	50	50	32
	O-Terphenyl		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 08:51
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-9
Client ID: MW-NASB-208BR
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		95	1.0	50	50	32
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 09:28
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-10
Client ID: MW-NASB-210
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		60	1.0	50	50	32
	O-Terphenyl		81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/16/08
Received Date: 04/16/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 01:46
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1916-5
Client ID: MW-NASB-702
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	50	1.0	50	50	32
	O-Terphenyl		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/16/08
Received Date: 04/16/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 01:08
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1916-4
Client ID: MW-NASB-DUP1
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	46	1.0	50	50	32
	O-Terphenyl		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: ONFF-3
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date: 04/18/08
Analysis Date: 22-APR-2008 10:06
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-11
Client ID: ONFF-RINSATE BLANK
SDG: ONFF-3
Extracted by: KF
Extraction Method: SW846 3510
Analyst: KGT
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG50417
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	50	1.0	50	50	32
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 23-APR-2008 17:38
Report Date: 04/24/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-6
Client ID: MW-NASB-702
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030B
Analyst: EKC
Analysis Method: MEDEP 4.2.17
Lab Prep Batch: WG50560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Gasoline Range Organics	U	10	1.0	10	10	6.6
460-00-4	4-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 23-APR-2008 16:21
Report Date: 04/24/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-1
Client ID: ONFF-QT1
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030B
Analyst: EKC
Analysis Method: MEDEP 4.2.17
Lab Prep Batch: WG50560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Gasoline Range Organics	U	10	1.0	10	10	6.6
460-00-4	4-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 23-APR-2008 13:08
Report Date: 04/24/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-11
Client ID: ONFF-RINSATE BLANK
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 5030B
Analyst: EKC
Analysis Method: MEDEP 4.2.17
Lab Prep Batch: WG50560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Gasoline Range Organics	U	10	1.0	10	10	6.6
460-00-4	4-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 12:52
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-2
Client ID: MW-NASB-051
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	2.2	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 13:10
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-3
Client ID: MW-NASB-058
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	U	10	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 14:18
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-7
Client ID: MW-NASB-062
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		11	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 13:27
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-4
Client ID: MW-NASB-098
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		890	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 14:35
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-8
Client ID: MW-NASB-207
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	5.0	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 15:59
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-9DL
Client ID: MW-NASB-208BR
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		4600	5.0	10	50	6.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 15:41
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-10
Client ID: MW-NASB-210
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	1.4	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 14:01
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-6
Client ID: MW-NASB-702
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	3.3	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 12:35
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-1
Client ID: ONFF-QT1
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	1.6	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/17/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 12:18
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-11
Client ID: ONFF-RINSATE BLANK
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	U	10	1.0	10	10	1.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 04/16/08
Received Date: 04/17/08
Extraction Date:
Analysis Date: 24-APR-2008 13:44
Report Date: 04/25/2008
Matrix: WATER
% Solids: NA

Lab ID: SB1947-5
Client ID: MW-NASB-DUP1
SDG: ONFF-3
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG50656
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		1100	1.0	10	10	1.3

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1916-1
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-051	AQ	16-APR-08	16-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	14. mg/L	5	EPA 310.1	WG50821	26-APR-08 10:38:00	N/A	N/A	CP	
Ferrous Iron	0.25 mg/L	.1	STDM 3500D	WG50446	16-APR-08 18:26:00	N/A	N/A	KK	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG50382	17-APR-08 13:51:46	N/A	N/A	CP	
Sulfate-Turbidimetric	4.9 mg/L	1	EPA 375.4	WG50759	25-APR-08 16:19:12	N/A	N/A	KR	
Total Organic Carbon	1.4 mg/L	1	EPA 415.1	WG50985	01-MAY-08 11:50:46	N/A	N/A	KK	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1916-2
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-058	AQ	16-APR-08	16-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	39. mg/L	5.	EPA 310.1	WG50821	26-APR-08 10:42:00	N/A	N/A	CP	
Ferrous Iron	0.35 mg/L	.1	STDM 3500D	WG50446	16-APR-08 16:36:00	N/A	N/A	KK	
Nitrate As N	0.24 mg/L	.05	EPA 353.2	WG50382	17-APR-08 13:52:51	N/A	N/A	CP	
Sulfate-Turbidimetric	14. mg/L	1	EPA 375.4	WG50759	25-APR-08 16:19:12	N/A	N/A	KR	
Total Organic Carbon	2.2 mg/L	1	EPA 415.1	WG50985	01-MAY-08 12:04:13	N/A	N/A	KK	

600 Technology Way
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1947-7
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-062	AQ	17-APR-08	17-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	14. mg/L	5	EPA 310.1	WG50865	29-APR-08 10:40:00	N/A	N/A	CP	
Ferrous Iron	0.87 mg/L	.1	STDM 3500D	WG50463	17-APR-08 16:27:00	N/A	N/A	AMB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG50447	18-APR-08 15:20:31	N/A	N/A	CP	
Sulfate-Turbidimetric	6.5 mg/L	1	EPA 375.4	WG50498	19-APR-08 15:36:00	N/A	N/A	KR	
Total Organic Carbon	5.8 mg/L	1	EPA 415.1	WG50985	01-MAY-08 14:20:55	N/A	N/A	KK	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1916-3
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-098	AQ	16-APR-08	16-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	25. mg/L	5	EPA 310.1	WG50821	26-APR-08 10:46:00	N/A	N/A	CP	
Ferrous Iron	1.6 mg/L	.1	STDM 3500D	WG50446	16-APR-08 16:31:00	N/A	N/A	KK	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG50382	17-APR-08 13:53:58	N/A	N/A	CP	
Sulfate-Turbidimetric	9.8 mg/L	1	EPA 375.4	WG50584	22-APR-08 09:36:00	N/A	N/A	KR	
Total Organic Carbon	2.5 mg/L	1	EPA 415.1	WG50985	01-MAY-08 12:37:43	N/A	N/A	KK	

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Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1916-4
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-DUP1	AQ	16-APR-08	16-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	25. mg/L	5	EPA 310.1	WG50821	26-APR-08 10:58:00	N/A	N/A	CP	
Ferrous Iron	1.6 mg/L	.1	STDM 3500D	WG50446	16-APR-08 16:34:00	N/A	N/A	KK	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG50382	17-APR-08 13:57:15	N/A	N/A	CP	
Sulfate-Turbidimetric	9.9 mg/L	1	EPA 375.4	WG50584	22-APR-08 09:36:00	N/A	N/A	KR	
Total Organic Carbon	2.4 mg/L	1	EPA 415.1	WG50985	01-MAY-08 13:18:56	N/A	N/A	KK	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1947-8
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-207	AQ	17-APR-08	17-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	120 mg/L	5	EPA 310.1	WG50865	29-APR-08 10:44:00	N/A	N/A	CP	
Ferrous Iron	U0.10 mg/L	.1	STDM 3500D	WG50463	17-APR-08 16:28:00	N/A	N/A	AMB	
Nitrate As N	0.19 mg/L	.05	EPA 353.2	WG50447	18-APR-08 15:21:37	N/A	N/A	CP	
Sulfate-Turbidimetric	3.2 mg/L	1	EPA 375.4	WG50498	19-APR-08 15:36:00	N/A	N/A	KR	
Total Organic Carbon	3.7 mg/L	1	EPA 415.1	WG50985	01-MAY-08 14:34:35	N/A	N/A	KK	

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ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1947-9
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-208BR	AQ	17-APR-08	17-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	170 mg/L	5	EPA 310.1	WG50865	29-APR-08 10:56:00	N/A	N/A	CP	
Ferrous Iron	15.1 mg/L	.2	STDM 3500D	WG50463	17-APR-08 16:25:00	N/A	N/A	AMB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG50447	18-APR-08 15:22:43	N/A	N/A	CP	
Sulfate-Turbidimetric	5.2 mg/L	1	EPA 375.4	WG50498	19-APR-08 15:36:00	N/A	N/A	KR	
Total Organic Carbon	2.9 mg/L	1	EPA 415.1	WG50985	01-MAY-08 14:48:05	N/A	N/A	KK	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1947-10
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-210	AQ	17-APR-08	17-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	37. mg/L	5	EPA 310.1	WG50865	29-APR-08 11:00:00	N/A	N/A	CP	
Ferrous Iron	0.12 mg/L	.1	STDM 3500D	WG50463	17-APR-08 16:22:00	N/A	N/A	AMB	
Nitrate As N	1.3 mg/L	.05	EPA 353.2	WG50447	18-APR-08 15:23:49	N/A	N/A	CP	
Sulfate-Turbidimetric	18. mg/L	1	EPA 375.4	WG50498	19-APR-08 15:36:00	N/A	N/A	KR	
Total Organic Carbon	7.6 mg/L	1	EPA 415.1	WG50985	01-MAY-08 15:01:46	N/A	N/A	KK	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB1916-5
Report Date: 02-MAY-08
Client PO:
Project: NASB ONFF
SDG: ONFF-3

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-702	AQ	16-APR-08	16-APR-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	39. mg/L	5	EPA 310.1	WG50821	26-APR-08 11:02:00	N/A	N/A	CP	
Ferrous Iron	0.28 mg/L	.1	STDM 3500D	WG50446	16-APR-08 16:35:00	N/A	N/A	KK	
Nitrate As N	0.51 mg/L	.05	EPA 353.2	WG50382	17-APR-08 13:58:21	N/A	N/A	CP	
Sulfate-Turbidimetric	U1.0 mg/L	1	EPA 375.4	WG50584	22-APR-08 09:36:00	N/A	N/A	KR	
Total Organic Carbon	8.6 mg/L	1	EPA 415.1	WG50985	01-MAY-08 13:46:51	N/A	N/A	KK	

FORM I's

SEPTEMBER 2008

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 29-OCT-2008 16:42
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-5
Client ID: MW-NASB-051
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57427
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		82%				
17060-07-0	1,2-Dichloroethane-D4		80%				
2037-26-5	Toluene-D8		80%				
460-00-4	P-Bromofluorobenzene		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 29-OCT-2008 15:40
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-2
Client ID: MW-NASB-058
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57427
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		79%				
17060-07-0	1,2-Dichloroethane-D4		79%				
2037-26-5	Toluene-D8		83%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 19:14
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-7
Client ID: MW-NASB-062
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		122%				
2037-26-5	Toluene-D8		109%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 18:10
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-3
Client ID: MW-NASB-098
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		112%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		107%				
460-00-4	P-Bromofluorobenzene		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 18:42
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-6
Client ID: MW-NASB-207
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		111%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		103%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 19:46
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-8
Client ID: MW-NASB-208BR
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		123%				
2037-26-5	Toluene-D8		110%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 20:19
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-10
Client ID: MW-NASB-210
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		124%				
2037-26-5	Toluene-D8		109%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 20:51
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-12
Client ID: MW-NASB-702
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		121%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		103%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 17:38
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-4RA
Client ID: MW-NASB-DUP1
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57488
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		110%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		107%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 29-OCT-2008 15:09
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-1
Client ID: ONFF-QT1
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57427
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		78%				
17060-07-0	1,2-Dichloroethane-D4		78%				
2037-26-5	Toluene-D8		87%				
460-00-4	P-Bromofluorobenzene		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 29-OCT-2008 14:38
Report Date: 11/04/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-14
Client ID: ONFF-RINSATE BLANK
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030
Analyst: TTC
Analysis Method: SW846 8260B
Lab Prep Batch: WG57427
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		79%				
17060-07-0	1,2-Dichloroethane-D4		79%				
2037-26-5	Toluene-D8		83%				
460-00-4	P-Bromofluorobenzene		102%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 04-NOV-2008 22:30
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-4
Client ID: MW-NASB-051
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57176
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	44	1.0	50	47	32
	O-Terphenyl		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 04-NOV-2008 20:34
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-1
Client ID: MW-NASB-058
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57176
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	47	1.0	50	47	32
	O-Terphenyl		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 04-NOV-2008 23:47
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-6
Client ID: MW-NASB-062
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57176
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	35	1.0	50	48	32
	O-Terphenyl		78%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 05-NOV-2008 02:21
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-8
Client ID: MW-NASB-062
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57432
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	48	1.0	50	48	32
	O-Terphenyl		64%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 04-NOV-2008 21:13
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-2
Client ID: MW-NASB-098
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57176
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		57	1.0	50	48	32
	O-Terphenyl		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 04-NOV-2008 23:08
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-5
Client ID: MW-NASB-207
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57176
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	J	45	1.0	50	47	32
	O-Terphenyl		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 10/27/08
Analysis Date: 04-NOV-2008 18:00
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-8
Client ID: MW-NASB-208BR
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57283
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		100	1.0	50	48	32
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 10/27/08
Analysis Date: 05-NOV-2008 01:43
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-9
Client ID: MW-NASB-208BR
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57431
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	48	1.0	50	48	35
	O-Terphenyl		67%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 10/27/08
Analysis Date: 04-NOV-2008 18:38
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-10
Client ID: MW-NASB-210
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57283
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		67	1.0	50	47	32
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 10/27/08
Analysis Date: 05-NOV-2008 02:21
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-11
Client ID: MW-NASB-210
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57431
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics	U	47	1.0	50	47	34
	O-Terphenyl		72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 10/27/08
Analysis Date: 04-NOV-2008 19:17
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-12
Client ID: MW-NASB-702
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57283
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		1800	1.0	50	48	32
	O-Terphenyl		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/23/08
Extraction Date: 10/24/08
Analysis Date: 04-NOV-2008 21:51
Report Date: 11/06/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6079-3
Client ID: MW-NASB-DUP1
SDG: ONFF-4
Extracted by: KF
Extraction Method: SW846 3510
Analyst: JLP
Analysis Method: MEDEP 4.1.25
Lab Prep Batch: WG57176
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Diesel Range Organics		56	1.0	50	52	34
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 18:40
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-12
Client ID: MW-NASB-702
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030B
Analyst: EKC
Analysis Method: MEDEP 4.2.17
Lab Prep Batch: WG57460
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Gasoline Range Organics	U	10	1.0	10	10	6.6
460-00-4	4-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 30-OCT-2008 18:00
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-1
Client ID: ONFF-QT1
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 5030B
Analyst: EKC
Analysis Method: MEDEP 4.2.17
Lab Prep Batch: WG57460
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Gasoline Range Organics	U	10	1.0	10	10	6.6
460-00-4	4-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 12:25
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-5
Client ID: MW-NASB-051
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		21	1.0	10	10	1.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 11:24
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-2
Client ID: MW-NASB-058
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	1.6	1.0	10	10	1.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 13:00
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-7
Client ID: MW-NASB-062
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		10	1.0	10	10	1.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 14:19
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-3DL
Client ID: MW-NASB-098
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		1600	2.0	10	20	2.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 14:36
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-4DL
Client ID: MW-NASB-DUP1
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		1600	2.0	10	20	2.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 12:43
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-6
Client ID: MW-NASB-207
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		45	1.0	10	10	1.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 10:50
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-8DL
Client ID: MW-NASB-208BR
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		5700	5.0	10	50	5.4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 13:17
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-10
Client ID: MW-NASB-210
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	4.3	1.0	10	10	1.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 13:34
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-12
Client ID: MW-NASB-702
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane		300	1.0	10	10	1.1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date:
Analysis Date: 31-OCT-2008 11:07
Report Date: 10/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-1
Client ID: ONFF-QT1
SDG: ONFF-4
Extracted by:
Extraction Method: SW846 3810
Analyst: EKC
Analysis Method: EPA Region 1
Lab Prep Batch: WG57495
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-82-8	Methane	J	1.3	1.0	10	10	1.1

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6079-4
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-051	AQ	23-OCT-08	23-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	23. mg/L	5	EPA 310.1	WG57583	01-NOV-08 11:50:00	N/A	N/A	CP	
Ferrous Iron	0.44 mg/L	.1	STDM 3500D	WG57476	23-OCT-08 17:36:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57210	24-OCT-08 15:09:37	N/A	N/A	CP	
Sulfate-Turbidimetric	4.3 mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	1.4 mg/L	1	EPA 415.1	WG57501	30-OCT-08 20:37:42	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6079-1
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-058	AQ	23-OCT-08	23-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	65. mg/L	5	EPA 310.1	WG57583	01-NOV-08 11:30:00	N/A	N/A	CP	
Ferrous Iron	0.34 mg/L	.1	STDM 3500D	WG57476	23-OCT-08 17:35:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57210	24-OCT-08 15:03:02	N/A	N/A	CP	
Sulfate-Turbidimetric	14. mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	2.2 mg/L	1	EPA 415.1	WG57501	30-OCT-08 19:46:53	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6079-6
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-062	AQ	23-OCT-08	23-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	11. mg/L	5	EPA 310.1	WG57583	01-NOV-08 11:58:00	N/A	N/A	CP	
Ferrous Iron	0.61 mg/L	.1	STDM 3500D	WG57476	23-OCT-08 17:34:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57210	24-OCT-08 15:11:49	N/A	N/A	CP	
Sulfate-Turbidimetric	5.8 mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	2.9 mg/L	1	EPA 415.1	WG57502	30-OCT-08 22:21:58	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6079-2
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-098	AQ	23-OCT-08	23-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	21. mg/L	5	EPA 310.1	WG57583	01-NOV-08 11:34:00	N/A	N/A	CP	
Ferrous Iron	3.1 mg/L	.1	STDM 3500D	WG57476	23-OCT-08 17:31:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57210	24-OCT-08 15:07:26	N/A	N/A	CP	
Sulfate-Turbidimetric	12. mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	2.4 mg/L	1	EPA 415.1	WG57502	30-OCT-08 21:42:59	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6079-5
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-207	AQ	23-OCT-08	23-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	110 mg/L	5	EPA 310.1	WG57583	01-NOV-08 11:54:00	N/A	N/A	CP	
Ferrous Iron	U0.10 mg/L	.1	STDM 3500D	WG57476	23-OCT-08 17:37:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57210	24-OCT-08 15:10:43	N/A	N/A	CP	
Sulfate-Turbidimetric	3.3 mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	2.8 mg/L	1	EPA 415.1	WG57501	30-OCT-08 20:49:51	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6114-8
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-208BR	AQ	24-OCT-08	24-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	170 mg/L	5	EPA 310.1	WG57645	04-NOV-08 10:08:00	N/A	N/A	CP	
Ferrous Iron	18. mg/L	.5	STDM 3500D	WG57477	24-OCT-08 16:27:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57212	24-OCT-08 16:24:27	N/A	N/A	CP	
Sulfate-Turbidimetric	3.4 mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	2.7 mg/L	1	EPA 415.1	WG57502	30-OCT-08 22:34:18	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6114-10
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-210	AQ	24-OCT-08	24-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	25. mg/L	5	EPA 310.1	WG57645	04-NOV-08 10:12:00	N/A	N/A	CP	
Ferrous Iron	0.25 mg/L	.1	STDM 3500D	WG57477	24-OCT-08 16:20:00	N/A	N/A	GFB	
Nitrate As N	0.95 mg/L	.05	EPA 353.2	WG57212	24-OCT-08 16:26:38	N/A	N/A	CP	
Sulfate-Turbidimetric	15. mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	8.9 mg/L	1	EPA 415.1	WG57502	30-OCT-08 22:47:01	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6114-12
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-702	AQ	24-OCT-08	24-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	31. mg/L	5	EPA 310.1	WG57645	04-NOV-08 10:16:00	N/A	N/A	CP	
Ferrous Iron	0.16 mg/L	.1	STDM 3500D	WG57477	24-OCT-08 16:22:00	N/A	N/A	GFB	
Nitrate As N	0.19 mg/L	.05	EPA 353.2	WG57212	24-OCT-08 16:25:32	N/A	N/A	CP	
Sulfate-Turbidimetric	4.7 mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	19. mg/L	1	EPA 415.1	WG57502	30-OCT-08 23:00:31	N/A	N/A	AMB	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Jackson Kiker
ECC
33 Boston Post Road West
Marlborough,MA 01752

Lab Sample ID: SB6079-3
Report Date: 06-NOV-08
Client PO:
Project: NASB ONFF
SDG: ONFF-4

Sample Description	Matrix	Date Sampled	Date Received
MW-NASB-DUP1	AQ	23-OCT-08	23-OCT-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Alkalinity	14. mg/L	5	EPA 310.1	WG57583	01-NOV-08 11:46:00	N/A	N/A	CP	
Ferrous Iron	3.2 mg/L	.1	STDM 3500D	WG57476	23-OCT-08 17:38:00	N/A	N/A	GFB	
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG57210	24-OCT-08 15:08:31	N/A	N/A	CP	
Sulfate-Turbidimetric	12. mg/L	1	EPA 375.4	WG57680	04-NOV-08 15:50:24	N/A	N/A	KGT	
Total Organic Carbon	2.5 mg/L	1	EPA 415.1	WG57501	30-OCT-08 19:59:04	N/A	N/A	AMB	

KATAHDIN ANALYTICAL SERVICES

Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 18:39
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-5
Client ID: MW-NASB-051
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.048	1.0	0.050	0.048	0.0066
877-09-8	Tetrachloro-M-Xylene		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 17:14
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-2
Client ID: MW-NASB-058
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0065
877-09-8	Tetrachloro-M-Xylene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 20:33
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-7
Client ID: MW-NASB-062
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0065
877-09-8	Tetrachloro-M-Xylene		76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 17:42
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-3
Client ID: MW-NASB-098
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0065
877-09-8	Tetrachloro-M-Xylene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 20:04
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-6
Client ID: MW-NASB-207
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0064
877-09-8	Tetrachloro-M-Xylene		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 21:01
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-8
Client ID: MW-NASB-208BR
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.048	1.0	0.050	0.048	0.0066
877-09-8	Tetrachloro-M-Xylene		101%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 21:30
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-10
Client ID: MW-NASB-210
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0065
877-09-8	Tetrachloro-M-Xylene		72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 21:58
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-12
Client ID: MW-NASB-702
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0064
877-09-8	Tetrachloro-M-Xylene		62%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/24/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 22:26
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-14
Client ID: ONFF-RINSATE BLANK
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.048	1.0	0.050	0.048	0.0066
877-09-8	Tetrachloro-M-Xylene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 18:10
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-4
Client ID: MW-NASB-DUP1
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0065
877-09-8	Tetrachloro-M-Xylene		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: ECC
Project: NASB ONFF
PO No:
Sample Date: 10/23/08
Received Date: 10/24/08
Extraction Date: 11/06/08
Analysis Date: 06-NOV-2008 16:46
Report Date: 11/07/2008
Matrix: WATER
% Solids: NA

Lab ID: SB6114-1
Client ID: ONFF-QT1
SDG: ONFF-4
Extracted by: JLP
Extraction Method: EPA 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG57703
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.047	1.0	0.050	0.047	0.0064
877-09-8	Tetrachloro-M-Xylene		107%				

APPENDIX D

Groundwater Monitoring Plan Well Selection Summary Table

PROJECT/SITE	SAMPLE_POINT_ID	LAB_SAMPLE_ID	DEP_SAMPLE_ID	ANALYSIS_LAB	SAMPLE_DAT	SAMPLE_TIME	SAMPLE_TYPE	SAMPLE_T	PARAMETER_NAME	CONCENTRAT	LAB_QUALIFIERS	REPORTING _LIMIT	PARAMETER_UNITS	TEST	ANALYSIS_TIME	PREP_DATE	PREP_TIME	PREP_METHOD	DILUTION_I	WEIGHT_BASIS	Result_Type_Code	IDL	MDL	VALIDATION_C	VA	LA	CAS_NO	RA	SA	SA	SA	SA	SA	SAMPLE_COLLECTION_METHOD	SA	TR	SA	SA	SAMPLE_COMMENTS	QM	QM	VALIDATI	VA	VALIDATION_COMMENT_TYPE
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	ALKALINITY AS CACO3	14.		5	mg/L	EPA 310.1		04/26/08		N/A	1		TRG		0.19				11-43-8							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	NITRATE AS N	0.050	U	.05	mg/L	EPA 353.2		04/17/08		N/A	1		TRG		0.015	U			14797-55-8							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	SULFATE	4.9		1	mg/L	EPA 375.4		04/25/08		N/A	1		TRG		0.29				14808-79-8							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	TOTAL ORGANIC CARBON	1.4		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1				7440-44-0							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	DIESEL RANGE ORGANICS	32	J	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-051			J		
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	O-TERPHENYL	96			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1916-1		KA	04/16/08		GW	N	FERROUS IRON	0.25		.1	mg/L	SM 3500FE D		04/16/08		N/A	1		TRG		0.026											low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	ALKALINITY AS CACO3	39.		5	mg/L	EPA 310.1		04/26/08		N/A	1		TRG		0.19				11-43-8							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	NITRATE AS N	0.24		.05	mg/L	EPA 353.2		04/17/08		N/A	1		TRG		0.015				14797-55-8							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	SULFATE	14.		1	mg/L	EPA 375.4		04/25/08		N/A	1		TRG		0.29				14808-79-8							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	TOTAL ORGANIC CARBON	2.2		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1				7440-44-0							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	DIESEL RANGE ORGANICS	50	U	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	U										low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	O-TERPHENYL	91			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1916-2		KA	04/16/08		GW	N	FERROUS IRON	0.35		.1	mg/L	SM 3500FE D		04/16/08		N/A	1		TRG		0.026											low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	ALKALINITY AS CACO3	25.		5	mg/L	EPA 310.1		04/26/08		N/A	1		TRG		0.19				11-43-8							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	NITRATE AS N	0.050	U	.05	mg/L	EPA 353.2		04/17/08		N/A	1		TRG		0.015	U			14797-55-8							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	SULFATE	9.8		1	mg/L	EPA 375.4		04/22/08		N/A	1		TRG		0.29				14808-79-8							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	TOTAL ORGANIC CARBON	2.5		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1				7440-44-0							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	DIESEL RANGE ORGANICS	42	J	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-098			J		
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	O-TERPHENYL	91			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1916-3		KA	04/16/08		GW	N	FERROUS IRON	1.6		.1	mg/L	SM 3500FE D		04/16/08		N/A	1		TRG		0.026											low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	ALKALINITY AS CACO3	25.		5	mg/L	EPA 310.1		04/26/08		N/A	1		TRG		0.19				11-43-8							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	NITRATE AS N	0.050	U	.05	mg/L	EPA 353.2		04/17/08		N/A	1		TRG		0.015	U			14797-55-8							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	SULFATE	9.9		1	mg/L	EPA 375.4		04/22/08		N/A	1		TRG		0.29				14808-79-8							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	TOTAL ORGANIC CARBON	2.4		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1				7440-44-0							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	DIESEL RANGE ORGANICS	46	J	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-DUP1			J		
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	O-TERPHENYL	97			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1916-4		KA	04/16/08		GW	D	FERROUS IRON	1.6		.1	mg/L	SM 3500FE D		04/16/08		N/A	1		TRG		0.026											low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	ALKALINITY AS CACO3	39.		5	mg/L	EPA 310.1		04/26/08		N/A	1		TRG		0.19				11-43-8							low-flow					MW-NASB-702					
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	NITRATE AS N	0.51		.05	mg/L	EPA 353.2		04/17/08		N/A	1		TRG		0.015				14797-55-8							low-flow					MW-NASB-702					
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	SULFATE	1.0	U	1	mg/L	EPA 375.4		04/22/08		N/A	1		TRG		0.29	U			14808-79-8							low-flow					MW-NASB-702			U		
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	TOTAL ORGANIC CARBON	8.6		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1				7440-44-0							low-flow					MW-NASB-702					
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	DIESEL RANGE ORGANICS	50	U	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	U										low-flow					MW-NASB-702			U		
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	O-TERPHENYL	86			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-702					
NASB ONFF	MW-NASB-702	SB1916-5		KA	04/16/08		GW	N	FERROUS IRON	0.28		.1	mg/L	SM 3500FE D		04/16/08		N/A	1		TRG		0.026											low-flow					MW-NASB-702					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	ALKALINITY AS CACO3	37.		5	mg/L	EPA 310.1		04/29/08		N/A	1		TRG		0.19				11-43-8							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	NITRATE AS N	1.3		.05	mg/L	EPA 353.2		04/18/08		N/A	1		TRG		0.015				14797-55-8							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	SULFATE	18.		1	mg/L	EPA 375.4		04/19/08		N/A	1		TRG		0.29				14808-79-8							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	TOTAL ORGANIC CARBON	7.6		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1				7440-44-0							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	METHANE	1.4	J	10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3	U			74-82-8							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	DIESEL RANGE ORGANICS	60		50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32											low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	O-TERPHENYL	81			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	FERROUS IRON	0.12		.1	mg/L	SM 3500FE D		04/17/08		N/A	1		TRG		0.026	J										low-flow					MW-NASB-210			J		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	1,2-DICHLOROETHANE-D4	111			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	4-BROMOFLUOROBENZENE	94			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			71-43-2							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	DIBROMOFLUOROMETHANE	103			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			100-41-4							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U			136777-61-2							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U			1634-04-4							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			95-47-6							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.3	U			108-88-3							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	TOLUENE-D8	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-210					
NASB ONFF	MW-NASB-210	SB1947-10		KA	04/17/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			1330-20-7							low-flow					MW-NASB-210			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	METHANE	2.2	J	10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3	U			74-82-8							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	1,2-DICHLOROETHANE-D4	105			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	4-BROMOFLUOROBENZENE	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			71-43-2							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	DIBROMOFLUOROMETHANE	101			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			100-41-4							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U			136777-61-2							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U			1634-04-4							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			95-47-6							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			108-88-3							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	TOLUENE-D8	95			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-051					
NASB ONFF	MW-NASB-051	SB1947-2		KA	04/16/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			1330-20-7							low-flow					MW-NASB-051			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	METHANE	10	U	10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3	U			74-82-8							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	1,2-DICHLOROETHANE-D4	105			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	4-BROMOFLUOROBENZENE	94			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			71-43-2							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	DIBROMOFLUOROMETHANE	101			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			100-41-4							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U			136777-61-2							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U			1634-04-4							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			95-47-6							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.3	U			108-88-3							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	TOLUENE-D8	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-058					
NASB ONFF	MW-NASB-058	SB1947-3		KA	04/16/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			1330-20-7							low-flow					MW-NASB-058			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	METHANE	890		10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3				74-82-8							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	1,2-DICHLOROETHANE-D4	110			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	4-BROMOFLUOROBENZENE	94			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			71-43-2							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	DIBROMOFLUOROMETHANE	104			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			100-41-4							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U			136777-61-2							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U			1634-04-4							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			95-47-6							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.3	U			108-88-3							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	TOLUENE-D8	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-098					
NASB ONFF	MW-NASB-098	SB1947-4		KA	04/16/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			1330-20-7							low-flow					MW-NASB-098			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	METHANE	1100		10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3				74-82-8							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	1,2-DICHLOROETHANE-D4	106			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	4-BROMOFLUOROBENZENE	93			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			71-43-2							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	DIBROMOFLUOROMETHANE	100			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			100-41-4							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U			136777-61-2							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U			1634-04-4							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			95-47-6							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			108-88-3							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	TOLUENE-D8	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-DUP1					
NASB ONFF	MW-NASB-098	SB1947-5		KA	04/16/08		GW	D	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U			1330-20-7							low-flow					MW-NASB-DUP1			U		
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	METHANE	3.3	J	10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3	U			74-82-8							low-flow					MW-NASB-702			U		

NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	4-BROMOFLUOROBENZENE	94			%	MEDEP 4.2.17		04/23/08		SW846 5030B	1		SUR				460-00-4	low-flow		MW-NASB-702		
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	GASOLINE RANGE ORGANIC	10	U	10	ug/L	MEDEP 4.2.17		04/23/08		SW846 5030B	1		TRG		U			low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	1,2-DICHLOROETHANE-D4	107			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				17060-07-0	low-flow		MW-NASB-702		
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	4-BROMOFLUOROBENZENE	95			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				460-00-4	low-flow		MW-NASB-702		
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	71-43-2	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	DIBROMOFLUOROMETHANE	102			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				1868-53-7	low-flow		MW-NASB-702		
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	100-41-4	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U	136777-61-2	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U	1634-04-4	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	95-47-6	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.3	U	108-88-3	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	TOLUENE-D8	95			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				2037-26-5	low-flow		MW-NASB-702		
NASB ONFF	MW-NASB-702	SB1947-6		KA	04/16/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	1330-20-7	low-flow		MW-NASB-702		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	ALKALINITY AS CACO3	14.		5	mg/L	EPA 310.1		04/29/08		N/A	1		TRG		0.19		11-43-8	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	NITRATE AS N	0.050	U	.05	mg/L	EPA 353.2		04/18/08		N/A	1		TRG		0.015	U	14797-55-8	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	SULFATE	6.5		1	mg/L	EPA 375.4		04/19/08		N/A	1		TRG		0.29		14808-79-8	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	TOTAL ORGANIC CARBON	5.8		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1		7440-44-0	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	METHANE	11		10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3		74-82-8	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	DIESEL RANGE ORGANICS	50	U	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	U		low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	O-TERPHENYL	93			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR				84-15-1	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	FERROUS IRON	0.87		.1	mg/L	SM 3500FE D		04/17/08		N/A	1		TRG		0.026	J		low-flow		MW-NASB-062		J
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	1,2-DICHLOROETHANE-D4	105			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				17060-07-0	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	4-BROMOFLUOROBENZENE	95			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				460-00-4	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	71-43-2	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	DIBROMOFLUOROMETHANE	103			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				1868-53-7	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	100-41-4	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U	136777-61-2	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U	1634-04-4	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	95-47-6	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	108-88-3	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	TOLUENE-D8	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				2037-26-5	low-flow		MW-NASB-062		
NASB ONFF	MW-NASB-062	SB1947-7		KA	04/17/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	1330-20-7	low-flow		MW-NASB-062		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	ALKALINITY AS CACO3	120		5	mg/L	EPA 310.1		04/29/08		N/A	1		TRG		0.19		11-43-8	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	NITRATE AS N	0.19		.05	mg/L	EPA 353.2		04/18/08		N/A	1		TRG		0.015		14797-55-8	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	SULFATE	3.2		1	mg/L	EPA 375.4		04/19/08		N/A	1		TRG		0.29		14808-79-8	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	TOTAL ORGANIC CARBON	3.7		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1		7440-44-0	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	METHANE	5.0	J	10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG		1.3	U	74-82-8	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	DIESEL RANGE ORGANICS	36	J	50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32	J		low-flow		MW-NASB-207		J
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	O-TERPHENYL	89			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR				84-15-1	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	FERROUS IRON	0.10	U	.1	mg/L	SM 3500FE D		04/17/08		N/A	1		TRG		0.026	UJ		low-flow		MW-NASB-207		UJ
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	1,2-DICHLOROETHANE-D4	113			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				17060-07-0	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	4-BROMOFLUOROBENZENE	96			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				460-00-4	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	71-43-2	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	DIBROMOFLUOROMETHANE	106			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				1868-53-7	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	100-41-4	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U	136777-61-2	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U	1634-04-4	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	95-47-6	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.3	U	108-88-3	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	TOLUENE-D8	98			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				2037-26-5	low-flow		MW-NASB-207		
NASB ONFF	MW-NASB-207	SB1947-8		KA	04/17/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	1330-20-7	low-flow		MW-NASB-207		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	ALKALINITY AS CACO3	170		5	mg/L	EPA 310.1		04/29/08		N/A	1		TRG		0.19		11-43-8	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	NITRATE AS N	0.050	U	.05	mg/L	EPA 353.2		04/18/08		N/A	1		TRG		0.015	U	14797-55-8	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	SULFATE	5.2		1	mg/L	EPA 375.4		04/19/08		N/A	1		TRG		0.29		14808-79-8	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	TOTAL ORGANIC CARBON	2.9		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG		0.1		7440-44-0	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	DIESEL RANGE ORGANICS	95		50	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG		32			low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	O-TERPHENYL	85			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR				84-15-1	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	FERROUS IRON	15.1		.2	mg/L	SM 3500FE D		04/17/08		N/A	2		TRG		0.026	J		low-flow		MW-NASB-208BR		J
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	1,2-DICHLOROETHANE-D4	108			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				17060-07-0	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	4-BROMOFLUOROBENZENE	93			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				460-00-4	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	BENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	71-43-2	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	DIBROMOFLUOROMETHANE	103			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				1868-53-7	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	ETHYLBENZENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	100-41-4	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	M-,P-XYLENE	2	U	2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		1	U	136777-61-2	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	METHYL TERT-BUTYL ETHE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.6	U	1634-04-4	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	O-XYLENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	95-47-6	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	TOLUENE	1	U	1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.3	U	108-88-3	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	TOLUENE-D8	97			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				2037-26-5	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-208BR	SB1947-9		KA	04/17/08		GW	N	XYLENES (TOTAL)	3	U	3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG		0.4	U	1330-20-7	low-flow		MW-NASB-208BR		U
NASB ONFF	MW-NASB-208BR	SB1947-9DL		KA	04/17/08		GW	N	METHANE	4600		50	ug/L	EPA Region 1		04/24/08		SW846 3810	5		TRG		6.5		74-82-8	low-flow		MW-NASB-208BR		
NASB ONFF	MW-NASB-098	WG50382-6		KA	04/16/08		GW	MS	NITRATE AS N	0.49		.05	mg/L	EPA 353.2		04/17/08		N/A	1		TRG				14797-55-8	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50417-3		KA	04/16/08		GW	MS	DIESEL RANGE ORGANICS	481		54	ug/L	ME DEP 4.1.25		04/18/08		SW846 3510	1		TRG					low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50417-3		KA	04/16/08		GW	MS	O-TERPHENYL	95			%	ME DEP 4.1.25		04/18/08		SW846 3510	1		SUR				84-15-1	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50446-3		KA	04/16/08		GW	MS	FERROUS IRON	7.2		.1	mg/L	SM 3500FE D		04/16/08		N/A	1		TRG					low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-210	WG50463-4		KA	04/17/08		GW	MS	FERROUS IRON	4.4		.1	mg/L	SM 3500FE D		04/17/08		N/A	1		TRG					low-flow		MW-NASB-210		
NASB ONFF	MW-NASB-098	WG50584-4		KA	04/16/08		GW	MS	SULFATE	20.		1	mg/L	EPA 375.4		04/22/08		N/A	1		TRG				14808-79-8	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50556-3		KA	04/16/08		GW	MS	METHANE	769		10	ug/L	EPA Region 1		04/24/08		SW846 3810	1		TRG				74-82-8	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50821-5		KA	04/16/08		GW	MS	ALKALINITY AS CACO3	140		5	mg/L	EPA 310.1		04/29/08		N/A	1		TRG				11-43-8	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	1,2-DICHLOROETHANE-D4	98			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				17060-07-0	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	4-BROMOFLUOROBENZENE	97			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				460-00-4	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	BENZENE	58		1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				71-43-2	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	DIBROMOFLUOROMETHANE	97			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				1868-53-7	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	ETHYLBENZENE	56		1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				100-41-4	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	M-,P-XYLENE	113		2	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				136777-61-2	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	METHYL TERT-BUTYL ETHE	105		1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				1634-04-4	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	O-XYLENE	57		1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				95-47-6	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	TOLUENE	59		1	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				108-88-3	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	TOLUENE-D8	95			%	SW846 8260B		04/29/08		SW846 5030	1		SUR				2037-26-5	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50851-3		KA	04/16/08		GW	MS	XYLENES (TOTAL)	170		3	ug/L	SW846 8260B		04/29/08		SW846 5030	1		TRG				1330-20-7	low-flow		MW-NASB-098		
NASB ONFF	MW-NASB-098	WG50985-3		KA	04/16/08		GW	MS	TOTAL ORGANIC CARBON	96.		1	mg/L	EPA 415.1		05/01/08		N/A	1		TRG				7440-44-0	low-flow		MW-NASB-098		

PROJECT/SITE	SAMPLE_POINT_ID	SAMPLE_DATE	SAMPLE	SAMPLE_TYPE	SAMPLE_TYPE_QUAL	PARAMETER_NAME	CONCENTRATION	LAB_QUALIFIERS	PREP	PREP_METHOD	DILUTION	WEIGH	Result_Type_Code	IDL	MDL	VALIDATION_QUALIFI	VA	LA	CAS_NO	RADI	SA	SAM	SA	SA	SA	SAMPLE_COLLECTION_METHOD	SAM	TREA	SA	SAM	SAMPLE_COMMENTS	QM	QM	VALIDATION_LEV	VALI	VALIDATION_COMMENT_TYPE
NASB ONFF	MW-NASB-058	10/23/08		GW	N	ALKALINITY AS CACO3	65.			N/A	1		TRG		.19				11-43-8							low-flow					MW-NASB-058			T1		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	NITRATE AS N	0.050	U		N/A	1		TRG		.0152	U			14797-55-8							low-flow					MW-NASB-058			T1		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	SULFATE	14.			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-058			T1		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	TOTAL ORGANIC CARBON	2.2			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-058			T1		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	DIESEL RANGE ORGANICS	47	J		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-058			T2		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	O-TERPHENYL	87			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-058			T2		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	FERROUS IRON	0.34			N/A	1		TRG		.026											low-flow					MW-NASB-058			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	ALKALINITY AS CACO3	21.			N/A	1		TRG		.19	J			11-43-8							low-flow					MW-NASB-098			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	NITRATE AS N	0.050	U		N/A	1		TRG		.0152	U			14797-55-8							low-flow					MW-NASB-098			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	SULFATE	12.			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-098			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	TOTAL ORGANIC CARBON	2.4			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-098			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	DIESEL RANGE ORGANICS	57			SW846 3510	1		TRG		32	J										low-flow					MW-NASB-098			T2		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	O-TERPHENYL	92			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-098			T2		
NASB ONFF	MW-NASB-098	10/23/08		GW	N	FERROUS IRON	3.1			N/A	1		TRG		.026											low-flow					MW-NASB-098			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	ALKALINITY AS CACO3	14.			N/A	1		TRG		.19	J			11-43-8							low-flow					MW-NASB-DUP1			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	NITRATE AS N	0.050	U		N/A	1		TRG		.0152	U			14797-55-8							low-flow					MW-NASB-DUP1			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	SULFATE	12.			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-DUP1			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	TOTAL ORGANIC CARBON	2.5			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-DUP1			T1		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	DIESEL RANGE ORGANICS	56			SW846 3510	1		TRG		34											low-flow					MW-NASB-DUP1			T2		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	O-TERPHENYL	84			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-DUP1			T2		
NASB ONFF	MW-NASB-098	10/23/08		GW	D	FERROUS IRON	3.2			N/A	1		TRG		.026											low-flow					MW-NASB-DUP1			T1		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	ALKALINITY AS CACO3	23.			N/A	1		TRG		.19				11-43-8							low-flow					MW-NASB-051			T1		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	NITRATE AS N	0.050	U		N/A	1		TRG		.0152	U			14797-55-8							low-flow					MW-NASB-051			T1		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	SULFATE	4.3			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-051			T1		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	TOTAL ORGANIC CARBON	1.4			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-051			T1		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	DIESEL RANGE ORGANICS	44	J		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-051			T2		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	O-TERPHENYL	89			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-051			T2		
NASB ONFF	MW-NASB-051	10/23/08		GW	N	FERROUS IRON	0.44			N/A	1		TRG		.026											low-flow					MW-NASB-051			T1		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	ALKALINITY AS CACO3	110			N/A	1		TRG		.19				11-43-8							low-flow					MW-NASB-207			T1		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	NITRATE AS N	0.050	U		N/A	1		TRG		.0152	U			14797-55-8							low-flow					MW-NASB-207			T1		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	SULFATE	3.3			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-207			T1		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	TOTAL ORGANIC CARBON	2.8			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-207			T1		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	DIESEL RANGE ORGANICS	45	J		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-207			T2		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	O-TERPHENYL	75			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-207			T2		
NASB ONFF	MW-NASB-207	10/23/08		GW	N	FERROUS IRON	0.10	U		N/A	1		TRG		.026	U										low-flow					MW-NASB-207			T1		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	ALKALINITY AS CACO3	11.			N/A	1		TRG		.19				11-43-8							low-flow					MW-NASB-062			T1		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	NITRATE AS N	0.050	U		N/A	1		TRG		.0152	U			14797-55-8							low-flow					MW-NASB-062			T1		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	SULFATE	5.8			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-062			T1		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	TOTAL ORGANIC CARBON	2.9			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-062			T1		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	DIESEL RANGE ORGANICS	35	J		SW846 3510	1		TRG		32	J										low-flow					MW-NASB-062			T2		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	O-TERPHENYL	78			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-062			T2		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	FERROUS IRON	0.61			N/A	1		TRG		.026											low-flow					MW-NASB-062			T1		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	DIESEL RANGE ORGANICS	48	U		SW846 3510 and AK102	1		TRG		32	U										low-flow					MW-NASB-062 sample extracted passed through silica gel column (Alaska Method			T2		
NASB ONFF	MW-NASB-062	10/23/08		GW	N	O-TERPHENYL	64			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-062			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	ALKALINITY AS CACO3	25.			N/A	1		TRG		.19				11-43-8							low-flow					MW-NASB-210			T1		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	NITRATE AS N	0.95			N/A	1		TRG		.0152				14797-55-8							low-flow					MW-NASB-210			T1		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	SULFATE	15.			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-210			T1		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	TOTAL ORGANIC CARBON	8.9			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-210			T1		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	1,2-DIBROMOETHANE	0.047	U		EPA 504.1	1		TRG		.0065	U			106-93-4							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	2,4,5,6-TETRACHLORO-META	72			EPA 504.1	1		SUR						877-09-8							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	METHANE	4.3	J		SW846 3810	1		TRG		1.1	U			74-82-8							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	DIESEL RANGE ORGANICS	67			SW846 3510	1		TRG		32											low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	O-TERPHENYL	83			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	FERROUS IRON	0.25			N/A	1		TRG		.026											low-flow					MW-NASB-210			T1		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	1,2-DICHLOROETHANE-D4	124			SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	4-BROMOFLUOROBENZENE	105			SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	BENZENE	1	U		SW846 5030	1		TRG		.3	U			71-43-2							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	DIBROMOFLUOROMETHANE	114			SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	ETHYLBENZENE	1	U		SW846 5030	1		TRG		.3	U			100-41-4							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	M-,P-XYLENE	2	U		SW846 5030	1		TRG		.7	U			136777-61-2							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	METHYL TERT-BUTYL ETHER	1	U		SW846 5030	1		TRG		.5	U			1634-04-4							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	O-XYLENE	1	U		SW846 5030	1		TRG		.3	U			95-47-6							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	TOLUENE	1	U		SW846 5030	1		TRG		.4	U			108-88-3							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	TOLUENE-D8	109			SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	XYLENES (TOTAL)	3	U		SW846 5030	1		TRG		.3	U			1330-20-7							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	DIESEL RANGE ORGANICS	47	U		SW846 3510 and AK102	1		TRG		34	U										low-flow					MW-NASB-210 sample extracted passed through silica gel column (Alaska Method			T2		
NASB ONFF	MW-NASB-210	10/24/08		GW	N	O-TERPHENYL	72			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-210			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	ALKALINITY AS CACO3	31.			N/A	1		TRG		.19				11-43-8							low-flow					MW-NASB-702			T1		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	NITRATE AS N	0.19			N/A	1		TRG		.0152				14797-55-8							low-flow					MW-NASB-702			T1		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	SULFATE	4.7			N/A	1		TRG		.29				14808-79-8							low-flow					MW-NASB-702			T1		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	TOTAL ORGANIC CARBON	19.			N/A	1		TRG		.1023				7440-44-0							low-flow					MW-NASB-702			T1		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	1,2-DIBROMOETHANE	0.047	U		EPA 504.1	1		TRG		.0064	U			106-93-4							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	2,4,5,6-TETRACHLORO-META	62			EPA 504.1	1		SUR						877-09-8							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	METHANE	300			SW846 3810	1		TRG		1.1				74-82-8							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	DIESEL RANGE ORGANICS	1800			SW846 3510	1		TRG		32											low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	O-TERPHENYL	74			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	4-BROMOFLUOROBENZENE	98			SW846 5030B	1		SUR						460-00-4							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	GASOLINE RANGE ORGANIC	10	U		SW846 5030B	1		TRG		6.6	U										low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	FERROUS IRON	0.16			N/A	1		TRG		.026											low-flow					MW-NASB-702			T1		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	1,2-DICHLOROETHANE-D4	121			SW846 5030	1		SUR						17060-07-0							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	4-BROMOFLUOROBENZENE	103			SW846 5030	1		SUR						460-00-4							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	BENZENE	1	U		SW846 5030	1		TRG		.3	U			71-43-2							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	DIBROMOFLUOROMETHANE	114			SW846 5030	1		SUR						1868-53-7							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	ETHYLBENZENE	1	U		SW846 5030	1		TRG		.3	U			100-41-4							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	M-,P-XYLENE	2	U		SW846 5030	1		TRG		.7	U			136777-61-2							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	METHYL TERT-BUTYL ETHER	1	U		SW846 5030	1		TRG		.5	U			1634-04-4							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	O-XYLENE	1	U		SW846 5030	1		TRG		.3	U			95-47-6							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	TOLUENE	1	U		SW846 5030	1		TRG		.4	U			108-88-3							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	TOLUENE-D8	108			SW846 5030	1		SUR						2037-26-5							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	XYLENES (TOTAL)	3	U		SW846 5030	1		TRG		.3	U			1330-20-7							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	DIESEL RANGE ORGANICS	62			SW846 3510 and AK102	1		TRG		35	J										low-flow					MW-NASB-702 sample extracted passed through silica gel column (Alaska Method			T2		
NASB ONFF	MW-NASB-702	10/24/08		GW	N	O-TERPHENYL	79			SW846 3510	1		SUR						84-15-1							low-flow					MW-NASB-702			T2		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	1,2-DIBROMOETHANE	0.047	U		EPA 504.1	1		TRG		.0065	U			106-93-4							low-flow					MW-NASB-058			T2		
NASB ONFF	MW-NASB-058	10/23/08		GW	N	2,4,5,6-TETRACHLORO-META	95			EPA 504.1	1		SUR						877-09-8							low-flow					MW-NASB-058			T2		

NASB ONFF	MW-NASB-058	10/23/08	GW	N	METHANE	1.6	J	SW846 3810	1	TRG	1.1	U	74-82-8	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	1,2-DICHLOROETHANE-D4	79		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	4-BROMOFLUOROBENZENE	97		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	DIBROMOFLUOROMETHANE	79		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	U	1634-04-4	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	TOLUENE-D8	83		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-058	10/23/08	GW	N	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-058	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	1,2-DIBROMOETHANE	0.047	U	EPA 504.1	1	TRG	.0065	U	106-93-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	2,4,5,6-TETRACHLORO-META	96		EPA 504.1	1	SUR			877-09-8	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	1,2-DICHLOROETHANE-D4	116		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	4-BROMOFLUOROBENZENE	104		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	DIBROMOFLUOROMETHANE	112		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	UJ	1634-04-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	TOLUENE-D8	107		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	N	METHANE	1600		SW846 3810	2	TRG	2.1	J	74-82-8	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	1,2-DIBROMOETHANE	0.047	U	EPA 504.1	1	TRG	.0065	U	106-93-4	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	2,4,5,6-TETRACHLORO-META	100		EPA 504.1	1	SUR			877-09-8	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	METHANE	1600		SW846 3810	2	TRG	2.1	J	74-82-8	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	1,2-DICHLOROETHANE-D4	116		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	4-BROMOFLUOROBENZENE	105		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	DIBROMOFLUOROMETHANE	110		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	U	1634-04-4	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	TOLUENE-D8	107		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	D	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-DUP1	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	1,2-DIBROMOETHANE	0.048	U	EPA 504.1	1	TRG	.0066	U	106-93-4	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	2,4,5,6-TETRACHLORO-META	100		EPA 504.1	1	SUR			877-09-8	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	METHANE	21		SW846 3810	1	TRG	1.1		74-82-8	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	1,2-DICHLOROETHANE-D4	80		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	4-BROMOFLUOROBENZENE	100		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	DIBROMOFLUOROMETHANE	82		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	U	1634-04-4	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	TOLUENE-D8	80		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-051	10/23/08	GW	N	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-051	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	1,2-DIBROMOETHANE	0.047	U	EPA 504.1	1	TRG	.0064	U	106-93-4	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	2,4,5,6-TETRACHLORO-META	80		EPA 504.1	1	SUR			877-09-8	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	METHANE	45		SW846 3810	1	TRG	1.1		74-82-8	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	1,2-DICHLOROETHANE-D4	118		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	4-BROMOFLUOROBENZENE	103		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	DIBROMOFLUOROMETHANE	111		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	U	1634-04-4	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	TOLUENE-D8	108		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-207	10/23/08	GW	N	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-207	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	1,2-DIBROMOETHANE	0.047	U	EPA 504.1	1	TRG	.0065	U	106-93-4	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	2,4,5,6-TETRACHLORO-META	76		EPA 504.1	1	SUR			877-09-8	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	METHANE	10		SW846 3810	1	TRG	1.1		74-82-8	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	1,2-DICHLOROETHANE-D4	122		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	4-BROMOFLUOROBENZENE	105		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	DIBROMOFLUOROMETHANE	114		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	U	1634-04-4	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	TOLUENE-D8	109		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-062	10/23/08	GW	N	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-062	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	ALKALINITY AS CACO3	170		N/A	1	TRG	.19		11-43-8	low-flow	MW-NASB-208BR	T1
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	NITRATE AS N	0.050	U	N/A	1	TRG	.0152	U	14797-55-8	low-flow	MW-NASB-208BR	T1
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	SULFATE	3.4		N/A	1	TRG	.29		14808-79-8	low-flow	MW-NASB-208BR	T1
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	TOTAL ORGANIC CARBON	2.7		N/A	1	TRG	.1023		7440-44-0	low-flow	MW-NASB-208BR	T1
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	1,2-DIBROMOETHANE	0.048	U	EPA 504.1	1	TRG	.0066	U	106-93-4	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	2,4,5,6-TETRACHLORO-META	101		EPA 504.1	1	SUR			877-09-8	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	DIESEL RANGE ORGANICS	100		SW846 3510	1	TRG	32			low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	O-TERPHENYL	84		SW846 3510	1	SUR			84-15-1	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	FERROUS IRON	18.		N/A	5	TRG	.13			low-flow	MW-NASB-208BR	T1
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	1,2-DICHLOROETHANE-D4	123		SW846 5030	1	SUR			17060-07-0	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	4-BROMOFLUOROBENZENE	105		SW846 5030	1	SUR			460-00-4	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	BENZENE	1	U	SW846 5030	1	TRG	.3	U	71-43-2	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	DIBROMOFLUOROMETHANE	114		SW846 5030	1	SUR			1868-53-7	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	ETHYLBENZENE	1	U	SW846 5030	1	TRG	.3	U	100-41-4	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	M-,P-XYLENE	2	U	SW846 5030	1	TRG	.7	U	136777-61-2	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	METHYL TERT-BUTYL ETHER	1	U	SW846 5030	1	TRG	.5	U	1634-04-4	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	O-XYLENE	1	U	SW846 5030	1	TRG	.3	U	95-47-6	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	TOLUENE	1	U	SW846 5030	1	TRG	.4	U	108-88-3	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	TOLUENE-D8	110		SW846 5030	1	SUR			2037-26-5	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	XYLENES (TOTAL)	3	U	SW846 5030	1	TRG	.3	U	1330-20-7	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	METHANE	5700		SW846 3810	5	TRG	5.4		74-82-8	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	DIESEL RANGE ORGANICS	48	U	SW846 3510 and AK102	1	TRG	35	U		low-flow	MW-NASB-208BR sample extracted passed through silica gel column (Alaska Method	T2
NASB ONFF	MW-NASB-208BR	10/24/08	GW	N	O-TERPHENYL	67		SW846 3510	1	SUR			84-15-1	low-flow	MW-NASB-208BR	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	DIESEL RANGE ORGANICS	368	*	SW846 3510	1	TRG	32			low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	O-TERPHENYL	86		SW846 3510	1	SUR			84-15-1	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	FERROUS IRON	14.		N/A	2	TRG	.052			low-flow	MW-NASB-098	T1
NASB ONFF	MW-NASB-208BR	10/24/08	GW	MS	FERROUS IRON	74		N/A	10	TRG	.26			low-flow	MW-NASB-208BR	T1

NASB ONFF	MW-NASB-098	10/23/08	GW	MS	1,2-DICHLOROETHANE-D4	120		SW846 5030	1	SUR		17060-07-0	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	4-BROMOFLUOROBENZENE	104		SW846 5030	1	SUR		460-00-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	BENZENE	54		SW846 5030	1	TRG	.28	71-43-2	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	DIBROMOFLUOROMETHANE	110		SW846 5030	1	SUR		1868-53-7	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	ETHYLBENZENE	47		SW846 5030	1	TRG	.3	100-41-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	M-,P-XYLENE	97		SW846 5030	1	TRG	.69	136777-61-2	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	METHYL TERT-BUTYL ETHEF	75	*	SW846 5030	1	TRG	.5	1634-04-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	O-XYLENE	48		SW846 5030	1	TRG	.26	95-47-6	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	TOLUENE	50		SW846 5030	1	TRG	.35	108-88-3	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	TOLUENE-D8	110		SW846 5030	1	SUR		2037-26-5	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	XYLENES (TOTAL)	144		SW846 5030	1	TRG	.26	1330-20-7	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	METHANE	1740		SW846 3810	1	TRG	1.1	74-82-8	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	TOTAL ORGANIC CARBON	99.		N/A	1	TRG	.1023	7440-44-0	low-flow	MW-NASB-098	T1
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	ALKALINITY AS CACO3	140		N/A	1	TRG	.19	11-43-8	low-flow	MW-NASB-098	T1
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	SULFATE	21.		N/A	1	TRG	.29	14808-79-8	low-flow	MW-NASB-098	T1
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	1,2-DIBROMOETHANE	0.24		EPA 504.1	1	TRG	.0065	106-93-4	low-flow	MW-NASB-098	T2
NASB ONFF	MW-NASB-098	10/23/08	GW	MS	2,4,5,6-TETRACHLORO-META	94		EPA 504.1	1	SUR		877-09-8	low-flow	MW-NASB-098	T2

APPENDIX D

Groundwater Monitoring Plan Well Selection Summary Table

TABLE 2 GROUND-WATER MONITORING PLAN WELL SELECTION SUMMARY
OLD NAVY FUEL FARM, NAVAL AIR STATION, BRUNSWICK, MAINE

Well No.	Well Diameter/ Material	Date Installed	Geologic Unit	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Depth of Well (ft bgs)	Included in Ground-Water Monitoring Program	Justification for Inclusion/Exclusion from Monitoring Well Network
MW-NASB-43	2-in./PVC	FEB 1990	Overburden	70.8	Unknown	9.00	No	Source area, but generally a dry well
MW-NASB-44	2-in./PVC	OCT 1991	Overburden	73.2	71.30	14.00	Yes	Source area well
MW-NASB-45	2-in./PVC	NOV 1991	Bedrock	71.9	74.61	57.00	No	Bedrock well, no contamination observed in bedrock
MW-NASB-46	2-in./PVC	NOV 1991	Overburden	69.8	71.30	15.00	Yes	Shallow, downgradient well location
MW-NASB-49	2-in./PVC	OCT 1991	Overburden	65.0	68.29	12.23	Yes	Shallow, downgradient well location
MW-NASB-51	2-in./PVC	OCT 1991	Overburden	71.2	73.41	13.00	Yes	Shallow, cross-gradient well location
MW-NASB-54	2-in./PVC	OCT 1991	Overburden	74.0	76.23	16.51	Yes	Shallow, source area well location
MW-NASB-55	2-in./PVC	OCT 1991	Overburden	97.7	100.35	43.50	No	Deep well, no observed contamination
MW-NASB-56R	2-in./PVC	DEC 1996	Overburden	72.3	75.28	11.50	No	Well destroyed
MW-NASB-58	2-in./PVC	NOV 1991	Overburden	68.0	68.00	16.30	Yes	Downgradient well location
MW-NASB-61R	2-in./PVC	DEC 1996	Overburden	72.2	75.52	9.50	Yes	Shallow source area well
MW-NASB-62	2-in./PVC	NOV 1991	Overburden	78.7	80.73	15.0	Yes	Shallow upgradient well location
MW-NASB-63	2-in./PVC	NOV 1991	Bedrock	79.0	82.13	50.50	No	Bedrock well, no observed contamination

NOTE: msl = Mean sea level.
bgs = Below ground surface.
PVC = Polyvinyl chloride.

Well No.	Well Diameter/ Material	Date Installed	Geologic Unit	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)	Total Depth of Well (ft bgs)	Included in Ground-Water Monitoring Program	Justification for Inclusion/Exclusion from Monitoring Well Network
MW-NASB-96	2-in./PVC	JUL 1988	Overburden	71.7	Unknown	9.50	No	Shallow cross-gradient monitoring well location
MW-NASB-98	2-in./PVC	MAR 2000	Overburden	73.4	76.53	13.00	Yes	Shallow downgradient monitoring well location
MW-NASB-205	2-in./PVC	Unknown[a]	Overburden	69.6	Unknown	49.60	No	Deep cross-gradient well location, no observed contamination
MW-NASB-206	2-in./PVC	Unknown[a]	Overburden	67.1	59.01	11.30	Yes	Shallow downgradient monitoring well location
MW-NASB-207	2-in./PVC	Unknown[a]	Overburden	64.4	66.22	17.65	Yes	Shallow downgradient monitoring well location
MW-NASB-208	2-in./PVC	Unknown[a]	Overburden	72.7	74.55	20.00	Yes	Downgradient monitoring well location
MW-NASB-209R	2-in./PVC	SEP 2000	Overburden	73.2	72.94	10.00	Yes	Shallow downgradient monitoring well location
MW-NASB-210	2-in./PVC	SEP 2000	Overburden	75.7	77.55	16.20	Yes	Shallow downgradient monitoring well location
MW-NASB-211	2-in./PVC	Unknown[a]	Overburden	73.9	Unknown	9.87	No	Well damaged
MW-NASB-213	2-in./PVC	Unknown[a]	Overburden	74.8	77.30	11.57	Yes	Shallow source area well
MW-NASB-244	2-in./PVC	SEP 2000	Overburden	70.9	70.73	10.00	Yes	Shallow downgradient monitoring well location
MW-NASB-245	2-in./PVC	SEP 2000	Overburden	67.7	67.51	10.00	Yes	Shallow downgradient monitoring well location

(a) No logs exist for these wells.

APPENDIX E

Responses to Regulator Comments and Follow-Up Comments

APPENDIX E

Responses to Regulator Comments and Follow-Up Comments

Responses to Comments Provided by the State of Maine Environmental Protection Agency on the Draft Old Navy Fuel Farm (ONFF) 2008 Monitoring Events Naval Air Station, Brunswick, Maine

Reviewer: Claudia Sait, MEDEP Project Manager
Date: July 10, 2009
Respondent: Navy
Date: August 13, 2009

Comment #	Location	Comment	Response
1	General	In 2007 and 2008 the field duplicate has been completed on MW-NASB-098. This well is side-gradient to the fuel farm and was installed originally for Site 17. In the future please sample the field duplicate at MW-NASB-702, MW-NASB-51, or MW-NASB-58, wells that are directly in the flowpath of the site and are more likely to indicate whether there is variability in the groundwater chemistry that is related to the fuel farm.	**Concur.** The October 2008 silica gel treatment (SGT)-diesel range organic (DRO) samples have shown that the only detection of DRO not impacted by polar interferences is at MW-NASB-702. Therefore, this location will be used for collection of the field duplicate sample. Please note that the purpose of a field duplicate per the EPA Region I data validation guidance is to assess the overall sampling and analytical precision for a given sampling event and/or laboratory analysis batch. Variability with time of groundwater parameters is typically measured over several sample events separated by season or months. Variability within a single sampling event for groundwater samples from a freely flowing monitoring well is typically attributed to sampling and/or laboratory precision errors, and the reproducibility of groundwater data collected during a sampling event from the same location is determined by the field duplicate. Field duplicate locations are typically chosen by the field sampling team based upon adequate recharge and past sample detections. Past sample detections are used in order to yield groundwater results with detections that allows for a mathematical calculation of the relative percent difference between the field sample and field duplicate sample, as measure of overall sampling and analytical precision. Sample results with high concentrations can result in instrument maintenance, so these locations are avoided. For ONFF, low-level detection locations were chosen to determine the impacts of sampling and analytical error on the reported levels. MW-NASB-098 is downgradient of the western portion of the ONFF and Site 17, and Site 17 is not a TPH site. As determined

Comment #	Location	Comment	Response
			in the remedial investigation, Site 17 is a pesticide contaminated site.
2	General	The values for the DRO extract with silica gel cleanup all indicate relatively low or non-detect levels of diesel range organics (DRO) in the groundwater downgradient of the former fuel farm. The dramatic reduction in concentration at MW-NASB-702 (from 1800 to 62 ug/L) of DRO is more than the typical 10% reduction observed in samples with the silica gel cleanup, and therefore is somewhat suspect.	**Concur.** Comparing site-specific ONFF SGT/DRO results to a general rule of thumb (i.e. 10% reduction in DRO reported from the SGT modified DRO-MEDEP method) should lead to asking what accounts for this difference. MEDEP DRO Method 4.1.25 does not have a step for removing polar compounds from the water sample. Because of this, the DRO method is more similar to a total organic measurement than a total petroleum hydrocarbon measurement. Polar compounds can be reported by MEDEP 4.1.25 that may lead to a false positive for DRO fuel compounds. Please see Table 1 below for a comparison of the non-SGT DRO to SGT/DRO results. The removal of polar compounds from all SGT/DRO samples has shown significant difference in results, which are more representative of ONFF DRO water levels. Also please see the chromatograms, below, obtained from the analysis of October 2008 ONFF groundwater from MW-NASB-062, MW-NASB-210, MW-NASB-702, and MW-NASB-208BR using DRO (first chromatogram in the pair) and then using SGT/DRO (second chromatogram in the presented pair). As seen in the chromatograms and Table, below, there are differences in the water soluble DRO reported by the SGT/DRO method and the non-SGT DRO results. Most likely the polar compounds that have been removed by SGT are from biogenic TOC and from oxygenated fuel biodegradation products. As seen in the non-SGT DRO chromatograms, there is a “hump” centered about 15-18 minutes (X-scale of chromatogram), which most likely is an unresolved complex mixture of water soluble oxygenated compounds. Upon silica gel treatment, this “hump” is removed, yielding only non-polar hydrocarbons to be determined by the analytical method. The level of polar compounds in MW-NASB-702 is much higher compared to the other monitoring wells, but MW-NASB-702 is in the region of the ONFF downgradient from the source. Biodegradation of fuel compounds is actively occurring at the ONFF, so there is a potential source of oxygenated compounds at the Site. Further MW-NASB-702 has the highest level of TOC (19 part per million) compared to other monitoring wells.

Comment #	Location	Comment	Response
3	General	The key to a long term monitoring program is an adequate monitoring network. Without the two wells MW-701 and MW-703, many of the conclusions reached by the Navy can not be fully supported, therefore it is necessary that these two wells be replaced and sampling resumed. As discussed with the Navy MW-701 should be replaced in its original location and same screen depth based on its history of detections; based on 4 rounds with no detections at its original location, MW-703 should be shifted approximately 140 feet southwest of MW-701 along the boundary of the former Fuel Farm.	**Concur.** The Navy will be preparing a letter proposal to address MEDEP's concerns.
4	General	Please add MW-NASB-065 from Site 17 to the gauging program to improve interpretation of groundwater flow along the western boundary of the Old Fuel Farm (OFF).	**Concur.** MW-NASB-065 will be gauged during the next sampling round to determine if addition of this location to the Ground-Water Monitoring Plan (EA 2000) will improve interpretation of the groundwater contours along the western boundary of the ONFF. In the next annual report, a recommendation concerning further gauging of MW-NASB-065 will be provided.
5	Page 4-1, Section 4.1.2, Bullet 3 and Table 3-3 and 3-4	*"It should be noted that the reported concentration of TPH-DRO demonstrated no spatial correlation to known petroleum release areas…"* a.) MEDEP again disagrees, and this text needs to be revised. The highest detection (with or without silica gel cleanup) for DRO is at the well at the site boundary, MW-NASB-702, closest to source areas. The recent data also contradict the statements in this bullet.	**a) Concur.** This statement will be clarified, as it addressed the fact that low-level DRO detections are widespread (upgradient and cross-gradient monitoring wells). However, once silica gel treatment was used, these DRO detections are now non-detect except for the ONFF boundary monitoring well, NASB-MW-702. This strongly suggests that current and past low-level detections may have been false positive or high biased due to the DRO method used for analysis. The following text will be deleted from Bullet 3 of Section 4.1.2, *"It should be noted that the reported concentrations of TPH-DRO demonstrated no spatial correlation to known petroleum release areas (i.e., upgradient, cross-gradient, and deep groundwater areas were apparently impacted to the same or greater extent than areas immediately downgradient of the ONFF)"*. The following text will be added, "*Monitoring well groundwater samples obtained from locations upgradient to the ONFF (MW-NASB-62), cross-gradient to the ONFF (MW-NASB-210), downgradient of the ONFF (MW-NASB-208BR), and at the boundary of the ONFF (MW-NASB-702) were subjected to silica gel treatment to remove polar compounds from the DRO sample. Only the DRO detection from MW-NASB-702 did not*

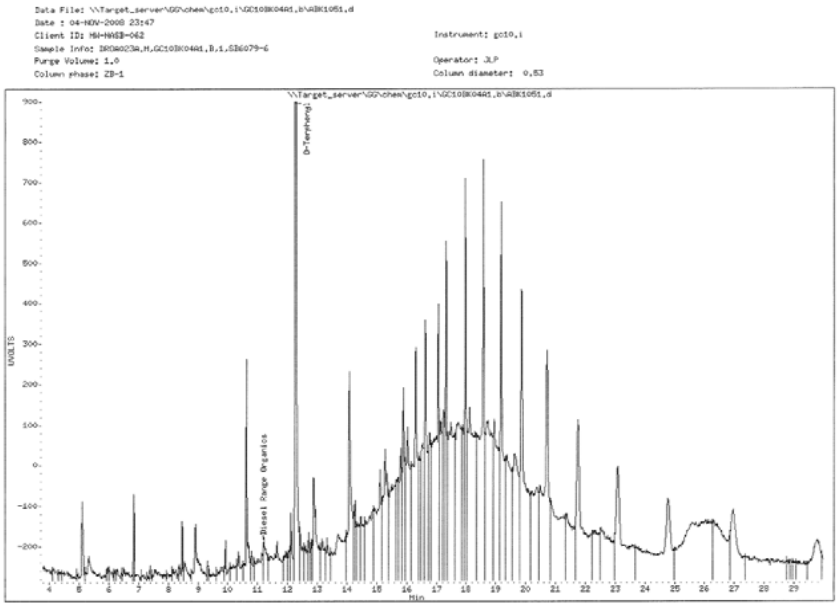
Comment #	Location	Comment	Response
		b.) Also there is a lack of data for the source areas and two monitoring wells at the boundary have been out of commission for two years now, making it much more likely that any detections will resemble those at peripheral wells. There is insufficient data to indicate shallow vs deep groundwater impacts, with the wells currently sampled. None of the wells currently monitored are described in Table 2 as deep wells, while the majority are water table wells. Until the damaged wells are replaced and sufficient data are collected the second to last sentence needs to be deleted. c.) The conclusions regarding TPH-GRO are over-reaching also, as MW-NASB-701 had GRO detections prior to being destroyed and it has not yet been replaced.	*result in a non-detect value once subjected to silica gel treatment"*. **b) Concur.** The following text will be deleted from Bullet 3 of Section 4.1.2, "*It should be noted that the reported concentrations of TPH-DRO demonstrated no spatial correlation to known petroleum release areas (i.e., upgradient, cross-gradient, and deep groundwater areas were apparently impacted to the same or greater extent than areas immediately downgradient of the ONFF)"*. **c) Concur.** The following text will be deleted from Bullet 3 of Section 4.1.2, "*This conclusion is further supported by the minimal presence of TPH-GRO or petroleum-related VOCs"*.
6	Page 41, Section 4.1.2, Bullet 3, para 2	The Total Organic Carbon (TOC) values are elevated but there is no clear correlation between TOC and detections of DRO. (MEDEP plotted DRO and TOC and found that although some high TOC matched DRO detections, but in other cases TOC was high with no DRO or DRO increased when TOC declined.) Also since the Navy did not analyze for phenolics used in JP-5 using Semi Volatile Organic Compounds (SVOC) method it is unclear whether the phenolics are being stripped off by the silica gel clean up.	**Concur.** TOC is reported in units of part per million while DRO is reported in units of part per billion. A direct linear correlation of DRO (ppb) which has units 1000X less than TOC (ppm) may not be that unusual, as amount of polar compounds in the TOC is not known. Further it should be noted that the largest change in DRO results after silica gel treatment occurred for MW-NASB-702, which had the largest TOC value. Before, it was unclear as to what MEDEP was requesting in past discussions about silica gel treatment. The Navy now understands the MEDEP concern about potential anti-oxidant JP-5 fuel additives at the ONFF. However, the Ground-Water Monitoring Plan (EA 2000) does not required sampling for phenolic compounds. Unfortunately phenols are polar compounds, and these most likely would be removed by silica gel treatment. Sampling for phenolic compounds commonly used for JP-5 fuels, 2,6-di-tert-butly-4-methylphenol, 6-tert-butyl-2,4-di-methylphenol, butylated ethyl phenols, butylated methyl and dimethyl phenols, should be discussed at a future technical meeting. Currently, SW-846 methods do not commonly report all of these phenolic compounds. SW-846 Method 9065/9066 does report phenols as a Total (i.e. no differentiating phenolic compounds) but with higher reporting limits.

Comment #	Location	Comment	Response
7	Page 4-1, Section 4.1.2, last Bullet	"*In October 2008, at the request of MEDEP, the groundwater samples from all eight monitoring wells were analyzed for EDB.*" Please add "and all were non-detect" or something similar, please revise.	**Concur.** This sentence will be revised, as follows, "*In October 2008, at the request of MEDEP, the groundwater samples from all eight monitoring wells were analyzed for EDB and all locations were non-detect*".
8	Page 4-2 and 4-3, Section 4.2	a.) Bullet 2 – MEDEP will be transitioning to an approach similar to the Massachusetts DEP Extractable Petroleum Hydrocarbons (EPH) methods once criteria are finalized, possibly by the end of 2009. Based on the other products stored at the OFF and based on the Gasoline Range Organics (GRO) detections MEDEP also recommends analysis of Volatile Petroleum Hydrocarbons (VPH), and MEDEP has previously commented on the need for Method 8270 Semi-Volatile Organics data to evaluate whether there are residual phenolics or degradation products present in groundwater at the site. b.) Bullet 3 – Prior to reduction of the frequency for Monitored Natural Attenuation (MNA) sample collection Navy should provide a summary letter report on the results of the analyses, including temporal or spatial trends (of any) and whether data from wells adjacent the site vary from data in side or upgradient wells. MEDEP at that time will consider a reduction in frequency for the MNA parameters. c.) Bullet 4 - MEDEP and Navy discussed possible locations to replace the wells destroyed at the site boundary in 2008 but unfortunately the wells have not been installed. A lack of data from the immediate site boundary and from the source areas limits the ability to draw conclusions regarding the extent of TPH attenuation/degradation in groundwater at the site, and this data gap must to be filled. d.) Bullet 6: To improve efficiency maybe the two wells can be replaced when MW-701 and MW-703 are decommissioned.	**a) Concur.** Changes to the Ground-Water Monitoring Plan (EA 2000) should be discussed at a future technical meeting. For phenol analysis, SW-846 Method 9065/9066 does report phenols as a Total Phenol, but it does not distinguish between phenolic compounds. **b) Concur.** As per Section 2.2 of the Ground-Water Monitoring Plan (EA 2000), natural attenuation will be evaluated in a separate report if deemed to be necessary. MNA parameters or frequency will not be reduced from the current parameters and frequency without the concurrence of MEDEP. **c) Concur.** The Navy will be preparing a letter proposal for the location of possible replacement monitoring wells. **d) Noted.** The Navy will be preparing a letter proposal for the location of replacement monitoring wells, which will provide a schedule of replacement, if deemed necessary.
END OF COMMENTS			

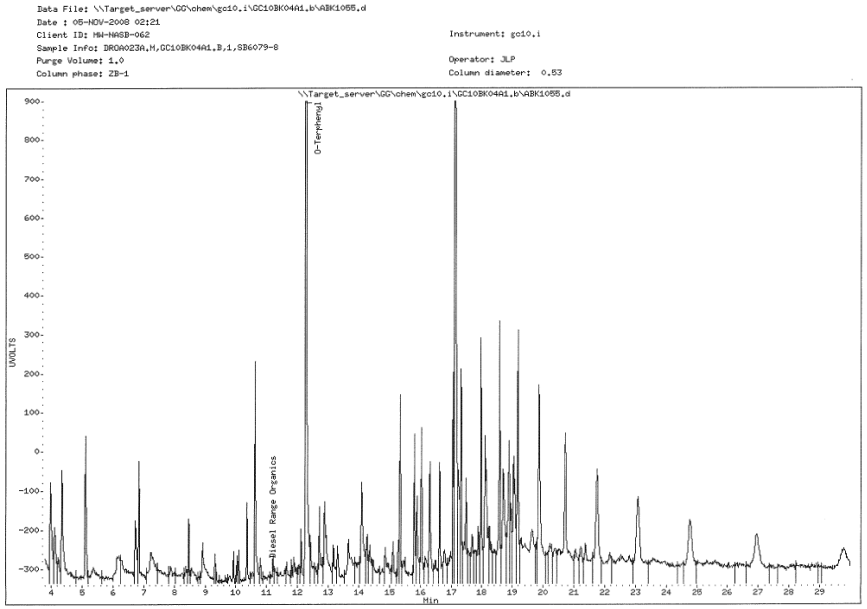
Table 1. Comparison of DRO and SGT/DRO Results

WELL NO.	LAB SAMPLEID	ANALYTICAL METHOD	Result	UNITS	Qualifier	MRL	Surrogate (%)	TOC Level (mg/L)
MW-NASB-062	SB6079-6	ME 4.1.25	35	µg/L	J	48	78	2.9
MW-NASB-062 (SGT)	SB6079-8	ME 4.1.25	U (<48)	µg/L	U	48	64	NA
MW-NASB-208BR	SB6114-8	ME 4.1.25	100	µg/L	--	48	84	2.7
MW-NASB-208BR (SGT)	SB6114-9	ME 4.1.25	U (<48)	µg/L	U	48	67	NA
MW-NASB-210	SB6114-10	ME 4.1.25	67	µg/L	--	47	83	8.9
MW-NASB-210 (SGT)	SB6114-11	ME 4.1.25	U (<47)	µg/L	U	47	72	NA
MW-NASB-702	SB6114-12	ME 4.1.25	1,800	µg/L	--	48	74	19
MW-NASB-702 (SGT)	SB6114-13	ME 4.1.25	62	µg/L	--	48	79	NA

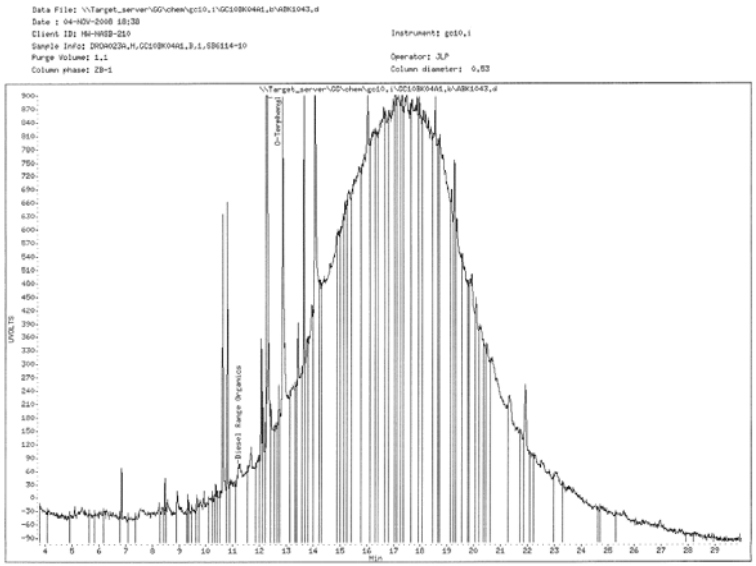
MW-NASB-062 (DRO Result without Silica Gel Treatment)



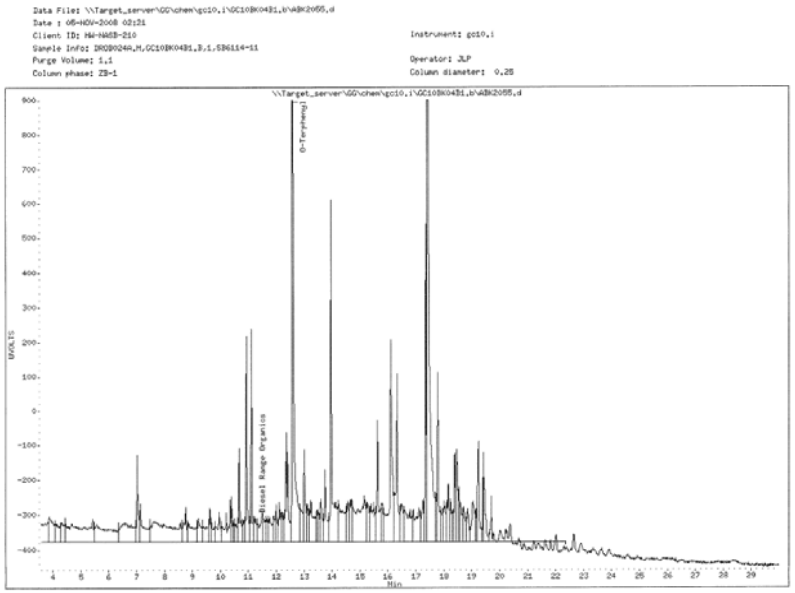
MW-NASB-062 (DRO Result with Silica Gel Treatment)



MW-NASB-210 (DRO Result without Silica Gel Treatment)

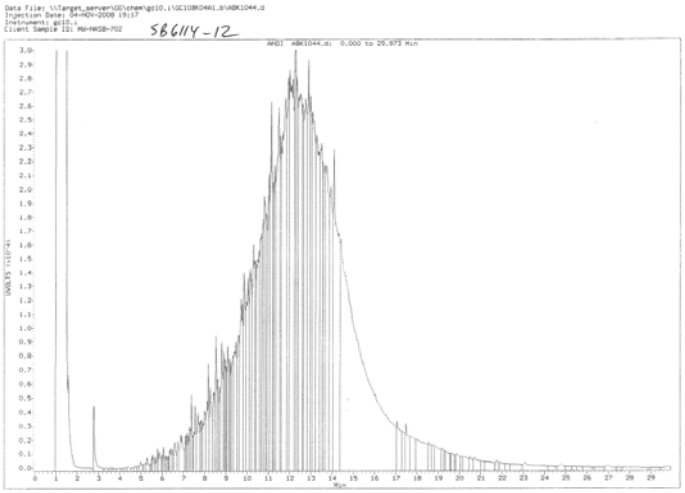


MW-NASB-210 (DRO Result with Silica Gel Treatment)

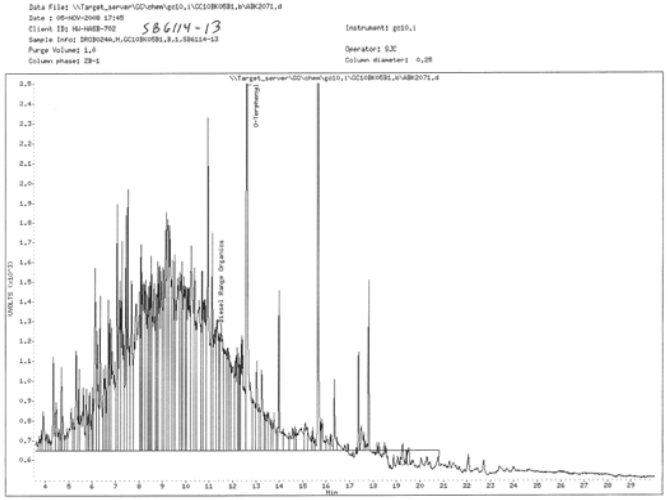


MW-NASB-702 DRO Result without Silica Gel Treatment)

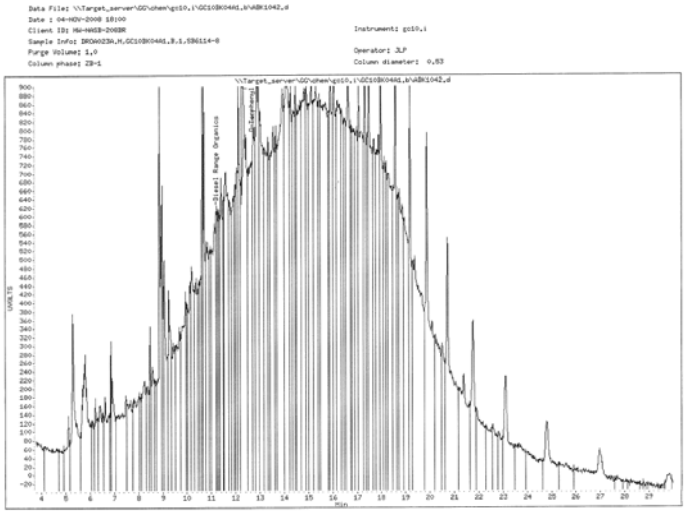
Note: larger units on scale



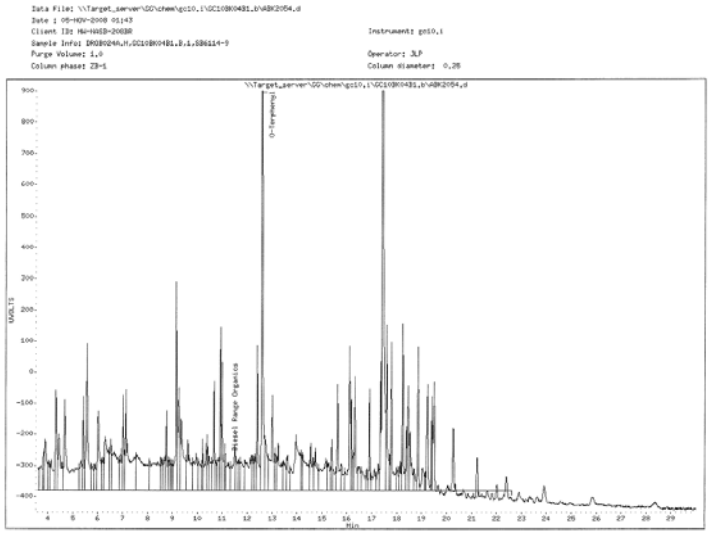
MW-NASB-702 (DRO Result with Silica Gel Treatment)



MW-NASB-208BR DRO Result without Silica Gel Treatment)



MW-NASB-208BR (DRO Result with Silica Gel Treatment)



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI
GOVERNOR

DAVID P. LITTELL
COMMISSIONER

September 2, 2009

Mr. Todd Bober
Department of Navy
Base Realignment and Closure
Program Management Office-Northeast
4911 South Broad Street
Philadelphia, PA 19112-1303

Re: Old Fuel Farm (OFF) 2008 Monitoring Events
Response to Comments (RTCs)
Naval Air Station, Brunswick, Maine

Dear Mr. Bober:

The Maine Department of Environmental Protection (MEDEP) has reviewed the Navy's responses dated August 13, 2009 to MEDEP's comments (July 10, 2009) for the Old Fuel Farm prepared by ECC. Based on its review and MEDEP's understanding that the Old Fuel Farm is scheduled for additional soil investigation to remove any remaining soil contamination so that the transfer of the property can be expedited once the Base is closed, MEDEP the following comments and issues:

RTC 2: MEDEP recommends that the Navy suspend its groundwater monitoring of this site until MEDEP has transitioned to its new analytical methodology using Volatile Petroleum Hydrocarbons (VPH) and Extractable Petroleum Hydrocarbons (EPH), commonly known as the Massachusetts's method. At that time, the Navy and MEDEP may revise the groundwater monitoring program, as necessary.

RTC 6: MEDEP agrees that future analyses for phenols (non target) will need to be discussed prior to resuming groundwater sampling ensure that the total risk of the site is evaluated.

MEDEP has no further comments provided that the proposed revisions and additions are incorporated into the final report along with regulator comments, responses and this letter.

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Respectfully,

Claudia Sait
Project Manager-Federal Facilities
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