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U.S. NAVAL AIR STATION
BRUNSWICK MAINE

# Final
# Site 9
# Monitoring Event 30 Report
# April 2007

Contract No. N62472-02-D-0810
Contract Task Order No. 007

## Naval Air Station
## Brunswick, Maine

Prepared by:

ECC

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BRAC Program Management Office - Northeast
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September 2008

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# SITE 9
# MONITORING EVENT 30 REPORT
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**Neptune Drive Disposal Site**
**Naval Air Station**
**Brunswick, Maine**

**Prepared for**

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# QUALITY REVIEW STATEMENT

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Description of Final Report/Deliverable:

Final Monitoring Event 30 Report – April 2007 for Site 9, Naval Air Station, Brunswick, Maine

ECC CTO Senior Project Manager: Alexander C. Easterday, P.G.

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.

State of Maine Geologist Reviewer:

STATE OF MAINE
GINA M. CALDERONE
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CERTIFIED GEOLOGIST

9/9/08

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# LIST OF ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| **°C** | degrees Celsius |
| **DRO** | Maine modified method for diesel range organics |
| **EPA** | U.S. Environmental Protection Agency |
| **LTMP** | Long-Term Monitoring Plan |
| **MCL** | maximum contaminant level |
| **MEDEP** | Maine Department of Environmental Protection |
| **MEG** | maximum exposure guideline |
| **µg/L** | micrograms per liter |
| **µmhos/cm** | micromhos per centimeter |
| **mg/L** | milligrams per liter |
| **mV** | millivolt |
| **NAS** | Naval Air Station |
| **NTU** | nephelometric turbidity units |
| **ORP** | oxidation reduction potential |
| **QAPP** | Quality Assurance Project Plan |
| **RSV** | Revised Screening Values |
| **SVOCs** | semivolatile organic compounds |
| **TAL** | Target Analyte List |
| **TCL** | Target Compound List |
| **VOCs** | volatile organic compounds |

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# 1.0 PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

Naval Facilities Engineering Command contracted with ECC to perform long-term monitoring at Site 9, Naval Air Station (NAS), Brunswick, Maine (Figure 1-1), under Contract No. N62472-02-D-0810, Contract Task Order No. 007.

The Navy is currently performing long-term monitoring at Site 9 (Figure 1-2) as part of the long-term remedial actions required by the *Final Record of Decision for Site 9* (EA Engineering, Science and Technology [EA 1999a]). The Site 9 Long-Term Monitoring Plan (LTMP) (ECC and EA 2005) well designations and sample parameters are summarized in Table 1-1. Due to the recent soil removal action at Site 9, four wells (MW-NASB-069, MW-NASB-079, MW-NASB-080, and MW-NASB-021) were decommissioned and are no longer monitored. It is important to note, however, that the Navy's removal action has resulted in removal of the source of contamination, and it is anticipated that groundwater quality will improve. Reinstallation of monitoring wells at site 09 during Fall 2008 should demonstrate the value of this removal action.

Groundwater samples were collected from eight monitoring wells (MW-NASB-070, MW-NASB-071, MW-NASB-072, MW-NASB-074, MW-NASB-075, MW-NASB-076, MW-NASB-022, and MW-NASB-227) during the April 2007 monitoring event. In addition, samples were collected at leachate seep site LT-901, leachate sediment site SED-010, and at surface water site SW-10. This report provides a summary of the monitoring and sampling completed during Monitoring Event 30 (April 2007).

## 1.1 Site Background

Neptune Drive Disposal Site (Site 9) is located in the central portion of NAS Brunswick. Site 9 has three areas of potential concern:

- Former incinerator location in what is now the northeast corner of Building 220 (demolished), and an inactive ash landfill/dump area in the current location of Buildings 218 and 219 (military barracks north of Neptune Drive, also demolished),
- A reported disposal area behind Building 201 (the dining facility south of Neptune Drive), and
- Two streams/impoundment ponds bordering the recreational area east of Building 201,which have iron oxide staining characteristic of leachate.

## 1.2 Measurement of Water Level Elevations

Static water levels were measured on April 3, 2007 at 13 monitoring wells and one pond elevation station located at Site 9 and at 12 monitoring wells located at the Navy Exchange Service Station (Figure 1-2). Stream gauge SG-2 was found knocked over and lying in the water by the field sampling team during Monitoring Event 30. Stream gauge SG-2 will be re-set and surveyed prior to the Fall 2007 sampling event. Water level gauging data are summarized in Tables 1-2 and 1-3, and the Site 9 Monitoring Well Gauging Summary forms can be found in Appendix A. Due to the removal action, four wells at Site 9 (MW-NASB-069, MW-NASB-079,

MW-NASB-080, and MW-NASB-021) have been decommissioned and are no longer monitored. MW-NASB-081 was believed to be destroyed as of January 2008 (based on excavation reports) but during a site visit MW-NASB-081 was found still intact. The April 2007 water level gauging data were used to interpret the groundwater surface contour elevation for Site 9 (Figure 1-3).

## 1.3 Groundwater Monitoring, Sampling, and Analysis

The groundwater sampling program was conducted on April 18, 2007 in accordance with the general methodologies established in the Final LTMP (ECC and EA 2005). The sample locations are shown on Figure 1-2. Dedicated Grundfos Redi-Flo2 stainless steel submersible pumping systems and Teflon® tubing were used for low-flow sample collection at Site 9 according to the U.S. Environmental Protection Agency (EPA) Region I low-flow sampling technique, in compliance with the Final LTMP (ECC and EA 2005) and the draft Final LTMP (ECC 2007). Water quality indicator parameters including pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential (ORP), and turbidity were monitored and recorded to ensure stabilization of water quality prior to sample collection (Table 1-4). The Low Flow/Low Stress Groundwater Sampling Logs, which were reviewed by the ECC Field Team Leader, are included in Appendix A.

Groundwater samples collected during Monitoring Event 30 at Site 9 were delivered by laboratory sample courier to Accutest Laboratory in Marlborough, Massachusetts. Accutest Laboratory is a Navy-certified laboratory. The groundwater samples collected from wells MW-NASB-022, MW-NASB-071, MW-NASB-072, MW-NASB-074, MW-NASB-075, MW-NASB-076, and MW-NASB-227 were analyzed for LTMP Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B. Diesel range organics by the Maine Modified Method (MEDEP-DRO by ME Method 4.1.25) were analyzed for in groundwater samples collected from wells MW-NASB-074, MW-NASB-075, and MW-NASB-076. Groundwater samples collected from wells MW-NASB-070 and MW-NASB-071 were analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270C. Additionally wells MW-NASB-070 and MW-NASB-071 groundwater samples were analyzed for LTMP metals by inductively coupled plasma using EPA Method 6010B, EPA Method 6020, and mercury by cold vapor atomic absorption using EPA Method 7470A.

## 1.4 Surface Water and Leachate Station Seep Sampling and Analysis

Surface water sampling and leachate station seep sampling were completed on April 4, 2007 in accordance with the LTMP (ECC and EA 2005). The sample locations are shown on Figure 1-2. Water quality indicator parameters including pH, specific conductance, temperature, dissolved oxygen, oxidation-reduction potential (ORP), and turbidity were monitored during surface water and leachate seep sampling, and these readings are summarized in Table 1-5. The Field Record of Surface Water and Sediment Sampling forms, which were reviewed by the ECC Field Team Leader, are included in Appendix A.

Surface water and leachate station seep samples were analyzed by Accutest Laboratory in Marlborough, Massachusetts for LTMP VOCs using EPA Method 8260B and LTMP metals by

inductively coupled plasma using EPA Method 6010B, EPA Method 6020, and mercury by cold vapor atomic absorption using EPA Method 7470A.

## 1.5 Stream Sediment Sampling and Analysis

The stream sediment sampling program was completed on April 4, 2007 in accordance with the LTMP (ECC and EA 2005). The sample location is shown on Figure 1-2. The stream sediment sample was collected with a modified version of the EasyDraw® sampler, preserved with sodium bisulfate and methanol, and then extracted for VOC analysis using EPA Method 5035. This collection, preservation, and extraction methodology was agreed upon at the August 2, 2000 Technical Meeting (EA 2000). The Field Record of Surface Water and Sediment Sampling form, which was reviewed by the ECC Field Team Leader, is included in Appendix A.

The stream sediment sample (SED-010) was analyzed by Accutest Laboratory in Marlborough, Massachusetts for LTMP VOCs using EPA Method 8260B and LTMP metals by inductively coupled plasma using EPA Method 6010B, EPA Method 6020, and mercury by cold vapor atomic absorption using EPA Method 7470A.

## 1.6 Visual Inspection

Site inspection activities at Site 9 were completed by the field team leader in accordance with the final LTMP (ECC/EA 2005). There was no evidence of stressed vegetation. The sheen observed in the fall of 2006 was not observed nor was any iron oxide staining. All site monitoring wells were observed to be capped, labeled, locked, and in good condition.

## 1.7 Quality Assurance and Quality Control

Appendix B contains the Analytical Data Quality Review reports for Monitoring Event 30 at Site 9, and Appendix C contains the Form I data sheets for all analyses performed. A rigorous quality assurance/quality control program is required to meet the data quality objectives of the sampling program, as outlined in the LTMP and Quality Assurance Project Plan (QAPP) (ECC and EA 2006). The data obtained during Monitoring Event 30 were determined to be of sufficient quality to be used to evaluate the long-term effectiveness of the remedial action (i.e., natural attenuation with monitoring). Field duplicate samples were collected and analyzed from these sample locations, MW-NASB-070, MW-NASB-074, MW-NASB-227, LT-901, SW-10, and SED-10. Analytes were reviewed for method and QAPP compliance, and the data were determined to be usable as qualified. There were no apparent matrix biases for all analyzed constituents of concern. No data were rejected for this sampling event.

# 2.0 OBSERVATIONS AND TRENDS

This section presents temporal trends and observations of contaminants of concern at Site 9.

## 2.1 Groundwater Levels

Results of the groundwater level and pond elevation gauging programs conducted in April 2007 indicate that groundwater flow is generally to the southeast at Site 9, toward the unnamed stream and the two impoundment ponds located south of Neptune Drive (Figure 1-3). The interpreted flow pattern upgradient of Site 9 is to the south-southwest; turning south and then southeast within Site 9. This groundwater flow pattern is consistent with previous gauging results.

The hydraulic gradient for the April 2007 monitoring event between Neptune Drive and the impoundments is approximately 0.004.

## 2.2 Field Water Quality Parameters

Water quality indicator parameters including pH, conductivity, temperature, dissolved oxygen, ORP, and turbidity were measured during well purging, surface water sampling, and leachate water sampling on April 4 and April 18, 2007. Field-measured water quality indicators are presented in Tables 1-4 and 1-5.

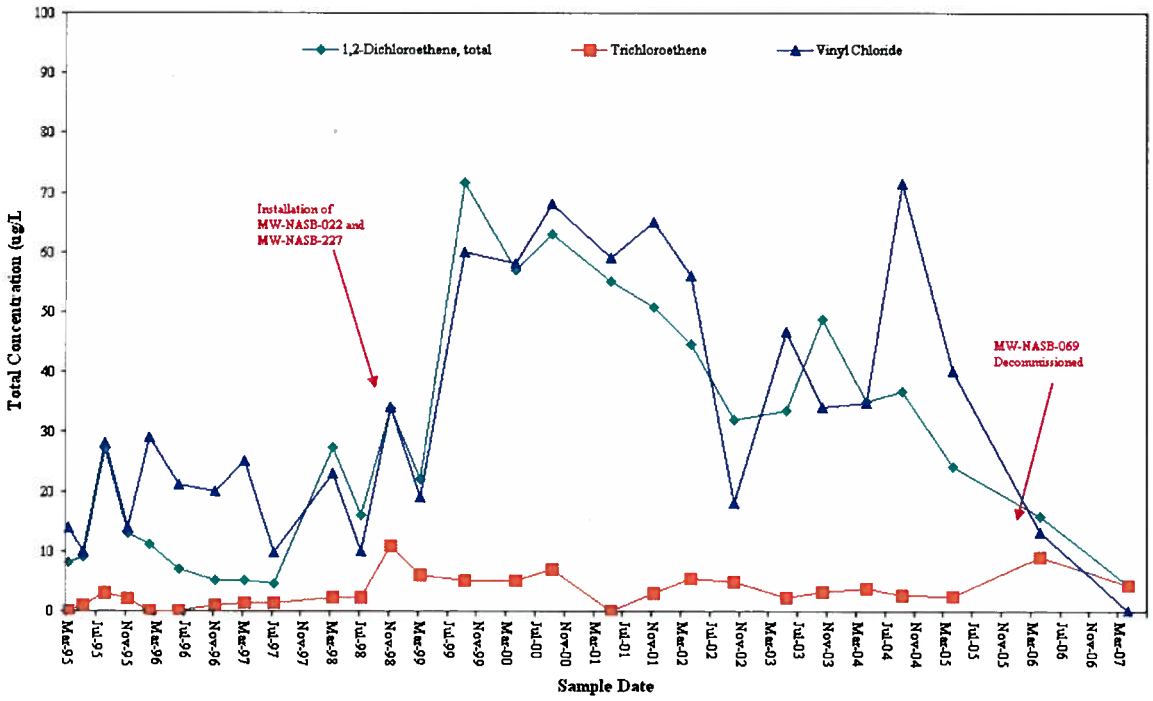
## 2.3 Analytical Results

The following sections present the results of the April 2007 groundwater, surface water, leachate seep and leachate sediment analytical results.

### 2.3.1 Groundwater Results

Spikes in VOC and vinyl chloride concentrations, followed by decreasing concentrations, have been observed in groundwater samples from site wells throughout the Long-Term Monitoring Program. The figure below is a plot of the sum of 1,2-dichloroethene (1,2-DCE) concentrations for all wells, and the sum of the vinyl chloride concentrations for all wells for each sampling event. Analyte concentrations less than the sample detection limit (2 µg/L) were summed as zero concentrations in these graphs. Overall, data results show the site-wide total concentration of 1,2-DCE has a decreasing trend over the last 6 years from a maximum in 2002. The site-wide total concentration of vinyl chloride has generally a decreasing trend between 2001 and the April 2007, except for a spike in September 2004.

**1,2-DCE (Total), Vinyl Chloride, and Trichlorethene Concentration Totals for Selected Wells* at Site 9**




The cis 1,2-DCE and vinyl chloride at the site are likely a product of the anaerobic dechlorination of TCE, as the field water quality data shows low DO and ORP.

The only active well that had a vinyl chloride detection (last sampled during Monitoring Event 28) was MW-NASB-069, which has since been decommissioned. The current active wells have non-detect results for vinyl chloride (MDL is 0.24 ug/L. The RL is 1 ug/L.)

Based on groundwater data collected during historical monitoring events (Figure 2-1), the vinyl chloride plume at Site 9 is limited to the central portion of the site, although data from a past direct-push sampling investigation yielded a vinyl chloride (7.1 µg/L) detection between MW-NASB-071 and MW-NASB-076 (EA 2003b). Detections of vinyl chloride in direct-push samples S9-B8 in 2003 and TCE in S9-B9 in 2004 possibly represent two likely exit pathways that are not currently monitored.

Because the hydraulic gradient in the lower portion of Site 9 is moderate to steep (0.004), contaminant plume widths are expected to be relatively narrow if source areas other than the ash landfill are small (considered likely). Given this expectation, groundwater monitoring in the current interpreted discharge area (S9-B8/MW-NASB-076 locality) appears to be inadequate. The basis for this conclusion is that the 10-foot screen in MW-NASB-076 intercepts the water table, leaving over 10 feet of sand above the clay unsampled (see Figure 5 of the October 2003 direct-push report, EA 2003b). Vinyl chloride was detected at 7.1 µg/L in S9-B8 at the following two depth intervals: (1) at an elevation comparable to the bottom of the

MW-NASB-076 screen and, (2) 8 feet deeper. However, the May and October 2003 long-term monitoring results showed no VOC detections in MW-NASB-076, which apparently was within the plume in the past.

Therefore, it appears that the VOC and vinyl chloride plumes are migrating to the south; and that the extent of the vinyl chloride plume is not fully delineated downgradient of Site 9 in the vicinity of MW-NASB-076. Action items from the December 2004 Technical meeting include the installation of a new groundwater monitoring well in the southwest corner of the institutional control boundary in proximity to S9-B10. The new well will be screened at a deeper depth to assess groundwater conditions above the clay formation. The schedule for installing the new is August 2007.

Tables 2-1 through 2-4 provide analytical data from the April 2007 sampling event. The temporal trends in groundwater chemicals of concern at Site 9 between 1995 and the current monitoring event (30) are presented in Appendix C. Field duplicate results are indicated by brackets "[ ]".

**Monitoring Well MW-NASB-022** – This well was last sampled during Monitoring Event 26, April 2005 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Total VOC detection for this monitoring event was 4.5 µg/L (versus non-detect, April 2005). VOC detections for this monitoring event included trichlorofluoromethane (4.5 µg/L).

**Monitoring Well MW-NASB-070** – This well was last sampled during Monitoring Event 26, April 2005 for metals and SVOCs. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Metal detections include barium (14.6 J [14.7 J] µg/L), beryllium (0.28 J [4 UJ] µg/L), calcium (20,000 [19,600] µg/L), chromium (0.64 J [1 J] µg/L), cobalt (2.4 J [2.3 J] µg/L), copper (1 J [1.3 J] µg/L), iron (18.8 J [12.9 J] µg/L), magnesium (1,870 J [1,850 J] µg/L), manganese (48.8 J [75 J] µg/L), mercury (0.02 UJ [0.026 J] µg/L), nickel (1.3 J [1.3 J] µg/L), potassium (618 J [622 J] µg/L), sodium (12,800 [13,000] µg/L), vanadium (0.64 J [30 UJ] µg/L), and zinc (5.3 J [5.8 J] µg/L). No SVOCs were detected during this monitoring event.

**Monitoring Well MW-NASB-071** – This well was last sampled during Monitoring Event 29, September 2006 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. For Monitoring Event 30, in addition to VOCs, metals and SVOCs were analyzed. Sodium increased to 25,700 µg/L (State MEG, 20,000 µg/L). **Sodium exceeded the regulatory limit for Monitoring Event 30**. Total VOC detection for this monitoring event was non-detect (versus non-detect, September 2006). Metal detections include aluminum (52.2 J µg/L), arsenic (8.3 µg/L), barium (4.1 J µg/L), beryllium (0.32 J µg/L), calcium (8,490 µg/L), cobalt (0.88 J µg/L), copper (1.1 J µg/L), iron (9,740 µg/L), lead (0.28 J µg/L), magnesium (3,860 J µg/L), manganese (128 µg/L), mercury (0.022 J µg/L), nickel (2.2 J µg/L), potassium (2,450 J µg/L), selenium (1.2 J µg/L), vanadium (0.75 J µg/L), and zinc (8.0 J µg/L). No SVOCs were detected during this monitoring event.

**Monitoring Well MW-NASB-072** – This well was last sampled during Monitoring Event 29, September 2006 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Total VOC detection for this monitoring event was 4.7 µg/L (versus non-detect, September 2006). VOC detections for this monitoring event included trichlorofluoromethane (4.7 µg/L).

**Monitoring Well MW-NASB-074** – This well was last sampled during Monitoring Event 29, September 2006 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Total VOC detection for this monitoring event was 4.7 µg/L (versus 7.9 µg/L, September 2006). VOC detections for this monitoring event included cis-1,2-dichloroethene (1.7 µg/L), 1,2-dichloroethene, total (1.7 µg/L), and trichloroethene (1.3 µg/L). DRO detections were 0.0634 J (0.0668 J) mg/L versus 0.0809 J mg/L in September 2006.

**Monitoring Well MW-NASB-075** – This well was last sampled during Monitoring Event 29, September 2006 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Total VOC detection for this monitoring event was 68.2 µg/L (versus 95.8 µg/L, September 2006). VOC detections for this monitoring event included trichlorofluoromethane (68.2 µg/L). DRO detections were non-detect versus 0.175 J mg/L in September 2006.

**Monitoring Well MW-NASB-076** – This well was last sampled during Monitoring Event 26, April 2005 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Total VOC detection for this monitoring event was non-detect (versus non-detect, April 2005). DRO detections were 0.0681 mg/L versus 0.0759 J mg/L in September 2006.

**Monitoring Well MW-NASB-227** – This well was last sampled during Monitoring Event 26, April 2005 for VOCs. During the previous sampling event there were no detections above the Federal MCL and State MEG. **There are no detections above the Federal MCL or State MEG for Monitoring Event 30.** Total VOC detection for this monitoring event was 8.9 µg/L (versus 2.7 µg/L, April 2005). VOC detections for this monitoring event included cis-1,2-dichloroethene (2.7 J µg/L), 1,2-dichloroethene, total (2.7 J µg/L), methyl tert butyl ether (0.43 J µg/L), and trichloroethene (3.1 µg/L).

### 2.3.2 Leachate Seep Sampling Program Results

Leachate seep sample, LT-901, was non-detect for total VOCs (Table 2-2). The results in brackets ( [ ] ) indicate the duplicate sample. During the sampling event there were 12 detections above the Revised Screening Values (RSV) for Surface Water, Seep Water, and Sediment (EA 2006). For Monitoring Event 30, aluminum was detected at 45,300 J [31,700 J] µg/L (87 µg/L),

barium at 938 J [643 J] µg/L (3.9 µg/L), beryllium at 2.8 J [1.5 J] µg/L (0.66 µg/L), chromium at 89.9 J [77.4] µg/L (11 µg/L), cobalt at 37.3 J [27.7 J] µg/L (23 µg/L), copper at 155 J [107] µg/L (2.36 µg/L), iron at 733,000 J [523,000 J] µg/L (1,000 µg/L), lead at 77.6 J [69.8] µg/L (0.41 µg/L), manganese at 12,600 J [14,100] µg/L (120 µg/L), nickel at 66.7 [52.7] µg/L (13.4 µg/L), silver at 1.2 J [1.7 J] µg/L (0.23 µg/L), and vanadium at 136 J [101] µg/L (20 µg/L). **Aluminum, barium, beryllium, chromium, cobalt, copper, iron, lead, manganese, nickel, silver, and vanadium exceeded the screening values for Monitoring Event 30**. Metal detections include arsenic (4.3 J [2.3 J] µg/L), calcium (73,300 J [51,500 J] µg/L), magnesium (15,700 J [12,400] µg/L), potassium (10,200 J [7,350 J] µg/L), sodium (32,500 [30,500] µg/L), and zinc (898 J [777] µg/L).

### 2.3.3 Sediment Sampling Program Results

The April 2007 data indicated that sediment sample, SED-10, was non-detect for total VOCs (Table 2-3) except for a detection of acetone at a concentration of 0.0479 (0.0275) mg/kg and carbon disulfide at a concentration of 0.0054 mg/kg (0.003 J mg/kg) which was above the RSV screening value of 0.0016 µg/L respectively, which has been defined in the document, Risk Based Ecological Screening Values for Surface Water, Seep Water, and Sediment at the Naval Air Station Brunswick (EA 2006). Metals were below these RSV screening values except for barium (0.7 µg/L) at a concentration of 8.7 [8.1 J] mg/kg and beryllium (0.55 mg/kg) at a concentration of 0.56 J mg/kg [0.14 J] mg/kg. **Carbon disulfide, barium, and beryllium exceeded the screening values for Monitoring Event 30.**

### 2.3.4 Surface Water Sampling Program Results

The September 2006 data indicated that surface water sample, SW-10, was non-detect for total VOCs (Table 2-4). Metals were below screening values except for aluminum (87 µg/L) at a concentration of 247 [264] µg/L, barium (3.9 µg/L) at 23.4 J [22.9] µg/L, copper (2.36 µg/L) at 4.4 J [3.9 J] µg/L, lead (0.41 µg/L) at 1.1 [0.9] µg/L, and manganese (120 µg/L) at 371 [355] µg/L. **Aluminum, barium, copper, lead, and manganese exceeded the RSV screening values for Monitoring Event 30.**

# 3.0 LONG-TERM MONITORING OBJECTIVES AND RECOMMENDATIONS

The following lists the objectives specified in the Site 9 LTMP, and provides conclusions as to whether the long-term monitoring event was successful in achieving these objectives or whether changes to the monitoring program are recommended.

## 3.1 Long-Term Monitoring Objectives

The following lists the uses for the data collected during the Long-Term Monitoring Program as specified in the Site 9 LTMP, and provides conclusions on the degree of success in achieving these objectives. It should be noted that, due to the number of wells decommissioned as part of the ash landfill removal action, the effectiveness of long term monitoring cannot be fully evaluated until the monitoring network can be re-established. The monitoring wells at Site 9 are planned to be replaced in Fall 2008.

- ***LTMP Objective*** *– Assess variations in groundwater flow patterns.*

  Groundwater and surface water are considered to be the migration pathways for site contaminants. At MW-NASB-069, which has since been decommissioned due to the removal action, the concentration of vinyl chloride in the shallow diffusion sample has remained stable and returned to average levels after increasing during Monitoring Event 25 in the deep diffusion sample. Vinyl chloride concentrations were non-detect in all monitoring well samples, in the surface water sample, and in the leachate sample for Monitoring Event 30. Once the replacement wells are installed at Site 9 the variations in groundwater flow can be re-assessed.

- ***LTMP Objective*** *– Assess whether contamination is migrating offsite.*

  The selected remedy for Site 9 includes utilizing natural attenuation with monitoring to reduce volatile organic contaminants present in groundwater, implementing institutional controls such as land use restrictions to prevent human contact with groundwater and landfill contents, and long-term monitoring of groundwater to verify that the landfill contents are not impacting groundwater, to monitor the progress of natural attenuation, and to monitor for contaminant plume migration. These remedial measures appear to be successful in protecting human health and the environment, and site use restrictions are currently preventing human contact with site groundwater and surface water. No stressed vegetation, iron oxide staining, or pond sheen was observed at Site 9 during this monitoring event.

- ***LTMP Objective*** *– Assess whether groundwater downgradient of the ash landfill is impacted by inorganics from the site.*

  Long-term monitoring groundwater data from three wells located downgradient (MW-NASB-069 and MW-NASB-079 [all since decommissioned]) of the landfill indicated no significant impacts from the inactive landfill. Concentrations of inorganics

and semivolatile organic compounds are below applicable State MEG and Federal MCL guidance. The time critical removal action has removed approximately 500 tons of hazardous material from Site 9 to date. Once the replacement wells are installed at Site 9 the downgradient groundwater impacts may be further assessed.

- ***LTMP Objective*** *– Assess variations in the concentrations of volatile organic compounds (VOCs) in groundwater, leachate surface water, and sediment to determine the effectiveness of natural attenuation.*

  Groundwater data from the long-term monitoring network indicate natural attenuation with monitoring appears to be successful in reducing vinyl chloride, which is the primary contaminant of concern at the site. Overall concentration of this compound has been decreasing in recent sampling events and has shown significant decreases since the maximum concentration was noted in 2002.

  Impacts to the environment due to Site 9 appear to be minimal. The relatively low concentrations of VOCs and other groundwater analytes are not likely to have a significant impact to environmental conditions within the site or downgradient of Site 9. No sheen, iron oxide staining, nor stressed vegetation was observed in the impoundment ponds. Once the replacement wells are installed at Site 9 the variations in groundwater impacts and effectiveness of natural attenuation can be re-assessed.

- ***LTMP Objective*** *– Monitor structural integrity of the groundwater monitoring wells*

  All monitoring wells are structurally sound.

## 3.2 Conclusions and Recommendations

Based on an analysis of the data collected at Site 9 as part of the Long-Term Monitoring Program, the following conclusions and recommendations are made:

- **Conclusion** – In general VOC and vinyl chloride concentrations have remained stable or have shown a general decreasing trend during the last two years of sampling. However, it appears that the extent of the vinyl chloride plume is not fully delineated downgradient of Site 9 in the vicinity of the former well MW-NASB-076. The results of the Site 9 investigations may generate data that indicate other revisions to the long-term monitoring are needed. One investigation on the south side of Neptune Drive was conducted in June 2008. A second investigation to be conducted in the northern portion of Site 9 (north of the current limits of the removal action excavation)I is planned for Fall 2008.

  **Recommendations** – Continue long-term monitoring and sampling in accordance with the revised version of the LTMP (ECC 2007) to assess the effectiveness of natural attenuation with long-term monitoring (the selected remedy for the site). In addition, the Navy will develop a work plan to replace well MW-NASB-076 with a deeper screen at a location close to soil boring S9-B8 location and install a new monitoring well in the Fall 2007 near soil boring S9-B10 location.

- **Conclusion** –Removal of the ash landfill (north of Neptune Drive) contents eliminated a potential source of VOCs and metals thus improving the groundwater quality.

  **Recommendation** – Continue monitoring surface water, seeps, and sediments looking for improvements resulting from the ash landfill/dump material removal action. The Navy is planning a second investigation in the northern portion of Site 9 (north of the current limits of the removal action excavation).

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# TABLES

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# Table 1-1
# Sampling Summary
# April 2007 (Monitoring Event 30)
# Site 9 – Naval Air Station, Brunswick, Maine

| Well Designation | Previous Well Designation | Monitoring Frequency [a] | Laboratory Analyses | | | | Field Sampling | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | VOC | DRO[b] | SVOCs | Metals | Field Parameters[c] | Gauged | Low-Flow Sample | ADS |
| **Monitoring Wells** | | | | | | | | | | |
| **MW-NASB-069** | MW-901 | Decommissioned | | | | | | | | |
| **MW-NASB-070** | MW-902 | Bi-Annual | X | | X | X | X | X | X | X |
| **MW-NASB-071** | MW-903 | Bi-Annual | X | | X | X | X | X | X | X |
| **MW-NASB-072** | MW-904 | Bi-Annual | X | | | | X | X | | X |
| **MW-NASB-074** | MW-906 | Bi-Annual | X | X | | | X | X | X | X |
| **MW-NASB-075** | MW-907 | Bi-Annual | X | X | | | X | X | X | X |
| **MW-NASB-076** | MW-908 | Bi-Annual | X | X | | | X | X | X | X |
| **MW-NASB-079** | MW-914 | Decommissioned | | | | | | | | |
| **MW-NASB-080** | MW-915 | Decommissioned | | | | | | | | |
| **MW-NASB-081** | | | | | | | | X | | |
| **MW-NASB-021** | --- | Decommissioned | | | | | | | | |
| **MW-NASB-022** | --- | Bi-Annual | X | | | | X | X | | X |
| **MW-NASB-227** | --- | Bi-Annual | X | | | | X | X | | X |
| **Leachate Station** | | | | | | | | | | |
| **LT-901 (SEEP)** | --- | Bi-Annual | X | | | X | X | | | |
| **Surface Water** | | | | | | | | | | |
| **SW-010** | --- | Bi-Annual | X | | | X | X | | | |
| **Sediment** | | | | | | | | | | |
| **SED-010** | --- | Bi-Annual | X | | | X | X | | | |
| **Pond Elevation Stations** | | | | | | | | | | |
| **SG-1C** | --- | Bi-Annual | | | | | | X | | |
| **SG-2** | --- | Bi-Annual | | | | | | X | | |

NOTES:

(a) Requirements per the Long Term Monitoring Plan (ECC and EA 2005) and Draft Final Long Term Monitoring Plan (ECC 2007).
(b) DRO sampling as defined by Draft Final LTMP (ECC 2007).
(c) Determination of field parameters in accordance with EPA/600/4-79/020 using the following methods:
pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 120.1), and turbidity (Method 180.1);
optional field parameters, including dissolved oxygen (Method 360.1) and ORP were also recorded.
Includes water level measurement.

ADS = aqueous diffusion sample (All VOCs collected using ADS)
LT = leachate
LTMP = Long Term Monitoring Program
NASB = Naval Air Station Brunswick
NR = procedure not required
MW = monitoring well
SED = sediment
SG = stream gauge
SVOC = semivolatile organic compound
SW = surface water
VOC = volatile organic compound
X = Well selected for sample and analysis for this parameter

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**Table 1-2**
**Monitoring Well Gauging Summary**
**April 2007**
**(Monitoring Event 30)**
**Site 9, Naval Air Station, Brunswick, Maine**

| Well Designation | Measurement Date | Top of Well Riser Elevation (feet AMSL) | Depth to Well Bottom (feet below Top of PVC Riser) | Depth to Water (feet below Top of PVC Riser) | Water Table Elevation (feet AMSL) |
|---|---|---|---|---|---|
| MW-NASB-069 | Destroyed | | | | |
| MW-NASB-070 | 4/3/2007 | 58.26 | 27.32 | 8.04 | 50.22 |
| MW-NASB-071 | 4/3/2007 | 46.25 | 21.54 | 1.67 | 44.58 |
| MW-NASB-072 | 4/3/2007 | 49.81 | 14.63 | 8.67 | 41.14 |
| MW-NASB-073 | 4/3/2007 | 51.71 | 32.12 | 8.12 | 43.59 |
| MW-NASB-074 | 4/3/2007 | 51.68 | 27.12 | 9.10 | 42.58 |
| MW-NASB-075 | 4/3/2007 | 54.91 | 21.22 | 12.9 | 42.01 |
| MW-NASB-076 | 4/3/2007 | 52.79 | 19.94 | 11.37 | 41.42 |
| MW-NASB-077 | 4/3/2007 | 58.89 | 37.29 | 15.49 | 43.40 |
| MW-NASB-078 | 4/3/2007 | 53.74 | 14.93 | 8.20 | 45.54 |
| MW-NASB-079 | Destroyed | | | | |
| MW-NASB-080 | Destroyed | | | | |
| MW-NASB-081 | 4/3/2007 | 58.22 | 18.85 | 12.50 | 45.72 |
| MW-NASB-021 | Destroyed | | | | |
| MW-NASB-022 | 4/3/2007 | 59.52 | 17.97 | 7.55 | 51.97 |
| MW-NASB-204 | 4/3/2007 | 62.09 | 17.93 | 8.80 | 53.29 |
| MW-NASB-227 | 4/3/2007 | 58.39 | 40.60 | 9.35 | 49.04 |
| **Pond Elevation Stations** | | | | | |
| SG-1C | 4/3/2007 | NA | NA | 2.84 | NA |
| SG-2 * | 4/3/2007 | NA | NA | 2.84 | NA |

**NOTES:**

AMSL = above mean sea level
MW = monitoring well
NA = not applicable
PVC = polyvinyl chloride
SG = stream gauge
* Staff gauge SG-1C was measured on April 3, 2007. Staff gauge SG-2 was damaged and could not be gauged. Staff gauge SG-2 was replaced on April 25, 2007, and the water levels at SG-1C and SG-2 were measured on that same date. SG-2 was not surveyed, so the water elevation above MSL could not be calculated.

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**Table 1-3**
**Monitoring Well Gauging Summary for the Navy Exchange Service Staion**
**April 2007**
**(Monitoring Event 30)**
**Site 9, Naval Air Station, Brunswick, Maine**

| Well Designation | Date Measured | Top of Well Riser Elevation (feet AMSL) | Depth to Well Bottom (feet below Top of PVC Riser) | Depth to Water (feet below Top of PVC Riser) | Water Table Elevation (feet AMSL) |
|---|---|---|---|---|---|
| MW-NASB-8 | 4/3/2007 | 59.22 | 13.15 | 1.61 | 57.61 |
| MW-NASB-9 | 4/3/2007 | 59.00 | 11.50 | 3.25 | 55.75 |
| MW-NASB-10 | 4/3/2007 | 62.03 | 12.48 | 6.23 | 55.80 |
| MW-NASB-23 | 4/3/2007 | 67.29 | 21.90 | 6.99 | 60.30 |
| MW-NASB-24 | 4/3/2007 | 65.31 | 13.15 | 5.03 | 60.28 |
| MW-NASB-25 | 4/3/2007 | 64.34 | 14.70 | 6.25 | 58.09 |
| MW-NASB-26 | 4/3/2007 | 66.61 | 12.55 | 6.83 | 59.78 |
| MW-NASB-225 | 4/3/2007 | 64.61 | 3.35 | 6.24 | 58.37 |
| MW-NASB-226 | 4/3/2007 | 62.22 | 12.68 | 4.55 | 57.67 |
| MW-NASB-250 | 4/3/2007 | 60.21 | 10.00 | 2.67 | 57.54 |
| MW-NASB-251 | 4/3/2007 | 62.39 | 8.55 | 4.07 | 58.32 |
| MW-NASB-252 | 4/3/2007 | 60.54 | 11.75 | 1.41 | 59.13 |

NOTES: AMSL = above mean sea level
MW = monitoring well
PVC = polyvinyl chloride
Monitoring wells listed on this table are not part of Site 9.

Water elevations were collected at the Navy Exchange Service Station wells to provide data upgradient of Site 9.

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# Table 1-4
# Summary of Water Quality Indicator Parameters - Groundwater
# April 2007
# (Monitoring Event 30)
# Site 9 - Naval Air Station, Brunswick, Maine

| Well Designation | Previous Well Designation | Sample Date | pH | Temperature (°C) | Conductivity (µmhos/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|
| MW-NASB-069 | Decommissioned | | | | | | | |
| MW-NASB-070 | MW-903 | 4/18/2007 | 6.85 | 10.26 | 188 | 0.06 | 3.1 | 175.1 |
| MW-NASB-071 | MW-903 | 4/18/2007 | 6.34 | 11.86 | 211 | **0.07** | 4.5 | -22.8 |
| MW-NASB-072* | MW-904 | 4/18/2007 | 6.66 | 4.75 | 78 | 8.65 | --- | 177.0 |
| MW-NASB-074 | MW-906 | 4/18/2007 | 6.49 | 12.38 | 345 | 0.31 | 14 | 6.3 |
| MW-NASB-075 | MW-907 | 4/18/2007 | 5.79 | 10.40 | 95 | 8.78 | 0.69 | 102.7 |
| MW-NASB-076 | MW-908 | 4/18/2007 | 5.97 | 6.62 | 661 | 14.8 | < 1 | 188.7 |
| MW-NASB-080 | Decommissioned | | | | | | | |
| MW-NASB-021 | Decommissioned | | | | | | | |
| MW-NASB-022* | MW-908 | 4/18/2007 | 4.86 | 5.07 | 757 | **16.81** | --- | 312.7 |
| MW-NASB-227* | MW-908 | 4/18/2007 | 6.48 | 12.47 | 314 | 0.22 | --- | 6.5 |

NOTES:
°C = Degrees Celsius
µmhos/cm = micromhos per centimeter
mg/L = milligrams per liter
mV = millivolt
MW = monitoring well
NASB = Naval Air Station Brunswick
NTU = nephelometric turbidity unit
NC = not collected
ORP = Oxidation Reduction Potential
* MW-NASB-022, MW-NASB-072 and MW-NASB-227 were sampled by ADS only, not low-flow

**MW-NASB-022 - Field note indicated anomalous DO reading**
**MW-NASB-071 - Used ADS bag DO reading due to instrument driftt**

Water quality data were collected using a YSI 600XLM and a Lamotte 2020 turbidity meter.

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**Table 1-5**
**Summary of Water Quality Indicator Parameters - Surface Water and Leachate Seep Samples**
**April 2007 (Monitoring Event 30)**
**Site 9 - Naval Air Station, Brunswick, Maine**

| Sample Designation | Sample Date | pH | Temperature (°C) | Conductivity (µmhos/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) |
|---|---|---|---|---|---|---|---|
| **Surface Water** | | | | | | | |
| SW-010 | 4/4/2007 | 6.51 | 5.49 | 252 | 7.74 | 9.5 | 79.6 |
| **Leachate Seep** | | | | | | | |
| LT-901 | 4/4/2007 | 6.04 | 2.37 | 251 | 0.37 | 380 | 126.1 |

NOTE: °C = degrees Celsius
LT = leachate sample
µmhos/cm = micromhos per centimeter
mg/L = milligrams per liter
mV = millivolt
NTU = nephelometric turbidity unit
ORP = Oxidation Reduction Potential
SW = surface water

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# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | **Station ID:** | MW-NASB-022 | MW-NASB-070 | MW-NASB-070 | MW-NASB-071 | MW-NASB-071 |
|---|---|---|---|---|---|---|---|---|
| | | | **Field Sample ID*:** | MW22 | M70 | MW-XD1 | MW71 | MW71 |
| | | | **Lab Sample ID:** | M64253-2 | M64253-3 | M64253-4 | M64253-5 | M64253-6 |
| | | | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | | | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab |
| | | | **Field QC:** | Original data | Original data | Field duplicates | Original data | Original data |
| | | | **Sampling Method:** | Passive Diffusion | Low-Flow | Low-Flow | Passive Diffusion | Low-Flow |
| | **Units** | **Federal MCL** | **Maine MEG** | | | | | |
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | 200 | 200 | 1 U | - | - | 1 U | - |
| 1,1,2,2-Tetrachloroethane | ug/l | NA | 1.8 | 1 U | - | - | 1 U | - |
| 1,1,2-Trichloroethane | ug/l | 5 | 6 | 1 U | - | - | 1 U | - |
| 1,1-Dichloroethane | ug/l | NA | 70 | 1 U | - | - | 1 U | - |
| 1,1-Dichloroethene | ug/l | 7 | 1 | 1 U | - | - | 1 U | - |
| 1,2-Dichlorobenzene | ug/l | NA | NA | 1 U | - | - | 1 U | - |
| 1,2-Dichloroethane | ug/l | 5 | 4 | 1 U | - | - | 1 U | - |
| 1,2-Dichloroethene, total | ug/l | 70 | 70 | 1 U | - | - | 1 U | - |
| 1,2-Dichloropropane | ug/l | 5 | 5 | 2 U | - | - | 2 U | - |
| 1,3-Dichlorobenzene | ug/l | NA | NA | 1 U | - | - | 1 U | - |
| 1,4-Dichlorobenzene | ug/l | NA | NA | 1 U | - | - | 1 U | - |
| 2-Butanone | ug/l | NA | NA | 5 U | - | - | 5 U | - |
| 2-Hexanone | ug/l | NA | NA | 5 U | - | - | 5 U | - |
| 4-Methyl-2-pentanone | ug/l | NA | NA | 5 U | - | - | 5 U | - |
| Acetone | ug/l | NA | 6300 | 7 | - | - | 5 U | - |
| Benzene | ug/l | 5 | 6 | 0.5 U | - | - | 0.5 U | - |
| Bromodichloromethane | ug/l | NA | 6 | 1 U | - | - | 1 U | - |
| Bromoform | ug/l | NA | 44 | 1 U | - | - | 1 U | - |
| Bromomethane | ug/l | NA | 10 | 2 UJ | - | - | 2 UJ | - |
| Carbon disulfide | ug/l | NA | 600 | 5 UJ | - | - | 5 UJ | - |
| Carbon tetrachloride | ug/l | 5 | 3 | 1 U | - | - | 1 U | - |
| Chlorobenzene | ug/l | 100 | 47 | 1 U | - | - | 1 U | - |
| Chloroethane | ug/l | NA | NA | 2 UJ | - | - | 2 UJ | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | **Station ID:** | MW-NASB-022 | MW-NASB-070 | MW-NASB-070 | MW-NASB-071 | MW-NASB-071 |
|---|---|---|---|---|---|---|---|---|
| | | | **Field Sample ID*:** | MW22 | M70 | MW-XD1 | MW71 | MW71 |
| | | | **Lab Sample ID:** | M64253-2 | M64253-3 | M64253-4 | M64253-5 | M64253-6 |
| | | | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | | | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab |
| | | | **Field QC:** | Original data | Original data | Field duplicates | Original data | Original data |
| | | | **Sampling Method:** | Passive Diffusion | Low-Flow | Low-Flow | Passive Diffusion | Low-Flow |
| | **Units** | **Federal MCL** | **Maine MEG** | | | | | |
| **VOCs** | | | | | | | | |
| Chloroform | ug/l | 80 | 70 | 1 U | - | - | 1 U | - |
| Chloromethane | ug/l | NA | 3 | 2 UJ | - | - | 2 UJ | - |
| cis-1,2-Dichloroethene | ug/l | NA | NA | 1 UJ | - | - | 1 UJ | - |
| cis-1,3-Dichloropropene | ug/l | NA | 4 | 0.5 UJ | - | - | 0.5 UJ | - |
| Dibromochloromethane | ug/l | NA | 4 | 1 U | - | - | 1 U | - |
| Ethylbenzene | ug/l | 700 | 70 | 1 U | - | - | 1 U | - |
| Methyl tert butyl ether | ug/l | NA | NA | 1 U | - | - | 1 U | - |
| Methylene chloride | ug/l | 5 | 47 | 2 UJ | - | - | 2 UJ | - |
| Styrene | ug/l | 100 | 140 | 5 U | - | - | 5 U | - |
| Tetrachloroethene | ug/l | 5 | 7 | 1 U | - | - | 1 U | - |
| Toluene | ug/l | 1000 | 1400 | 1 U | - | - | 1 U | - |
| trans-1,2-Dichloroethene | ug/l | NA | NA | 1 UJ | - | - | 1 UJ | - |
| trans-1,3-Dichloropropene | ug/l | NA | 4 | 0.5 UJ | - | - | 0.5 UJ | - |
| Trichloroethene | ug/l | 5 | 32 | 1 U | - | - | 1 U | - |
| Trichlorofluoromethane | ug/l | NA | NA | 4.5 | - | - | 1 U | - |
| Vinyl Chloride | ug/l | 2 | 0.2 | 1 U | - | - | 1 U | - |
| Xylenes, Total | ug/l | 10000 | 1400 | 1 U | - | - | 1 U | - |
| Total VOC | ug/l | NA | NA | 4.5 | - | - | U | - |
| **SVOCs** | | | | | | | | |
| 1,2,4-Trichlorobenzene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 1,2-Dichlorobenzene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 1,3-Dichlorobenzene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 1,4-Dichlorobenzene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | **Station ID:** | MW-NASB-022 | MW-NASB-070 | MW-NASB-070 | MW-NASB-071 | MW-NASB-071 |
|---|---|---|---|---|---|---|---|---|
| | | | **Field Sample ID*:** | MW22 | M70 | MW-XD1 | MW71 | MW71 |
| | | | **Lab Sample ID:** | M64253-2 | M64253-3 | M64253-4 | M64253-5 | M64253-6 |
| | | | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | | | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab |
| | | | **Field QC:** | Original data | Original data | Field duplicates | Original data | Original data |
| | | | **Sampling Method:** | Passive Diffusion | Low-Flow | Low-Flow | Passive Diffusion | Low-Flow |
| | **Units** | **Federal MCL** | **Maine MEG** | | | | | |
| **SVOCs** | | | | | | | | |
| 2,4,5-Trichlorophenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2,4,6-Trichlorophenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2,4-Dichlorophenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2,4-Dimethylphenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2,4-Dinitrophenol | ug/l | NA | NA | - | 20 U | 20 U | - | 20 U |
| 2,4-Dinitrotoluene | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2,6-Dinitrotoluene | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2-Chloronaphthalene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 2-Chlorophenol | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 2-Methylnaphthalene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 2-Methylphenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2-Nitroaniline | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 2-Nitrophenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 3,3'-Dichlorobenzidine | ug/l | NA | NA | - | 5 UJ | 5 UJ | - | 5 UJ |
| 3-Methylphenol/4-Methylphenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 3-Nitroaniline | ug/l | NA | NA | - | 10 UJ | 10 UJ | - | 10 UJ |
| 4,6-Dinitro-o-cresol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 4-Bromophenyl phenyl ether | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 4-Chloro-3-methylphenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 4-Chloroaniline | ug/l | NA | NA | - | 10 UJ | 10 UJ | - | 10 UJ |
| 4-Chlorophenyl phenyl ether | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| 4-Nitroaniline | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| 4-Nitrophenol | ug/l | NA | NA | - | 20 U | 20 U | - | 20 U |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | **Station ID:** | MW-NASB-022 | MW-NASB-070 | MW-NASB-070 | MW-NASB-071 | MW-NASB-071 |
|---|---|---|---|---|---|---|---|---|
| | | | **Field Sample ID*:** | MW22 | M70 | MW-XD1 | MW71 | MW71 |
| | | | **Lab Sample ID:** | M64253-2 | M64253-3 | M64253-4 | M64253-5 | M64253-6 |
| | | | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | | | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab |
| | | | **Field QC:** | Original data | Original data | Field duplicates | Original data | Original data |
| | | | **Sampling Method:** | Passive Diffusion | Low-Flow | Low-Flow | Passive Diffusion | Low-Flow |
| | **Units** | **Federal MCL** | **Maine MEG** | | | | | |
| **SVOCs** | | | | | | | | |
| Acenaphthene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Acenaphthylene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Anthracene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Benzo(a)anthracene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Benzo(a)pyrene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Benzo(b)fluoranthene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Benzo(g,h,i)perylene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Benzo(k)fluoranthene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| bis(2-Chloroethoxy) methane | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| bis(2-Chloroethyl) ether | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| bis(2-Chloroisopropyl) ether | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| bis(2-Ethylhexyl) phthalate | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Butyl benzyl phthalate | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Carbazole | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Chrysene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Di-N-Butyl phthalate | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Di-N-Octyl phthalate | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Dibenzo(a,h)anthracene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Dibenzofuran | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Diethyl phthalate | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Dimethyl phthalate | ug/l | NA | NA | - | 5 UJ | 5 UJ | - | 5 UJ |
| Fluoranthene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Fluorene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | **Station ID:** | MW-NASB-022 | MW-NASB-070 | MW-NASB-070 | MW-NASB-071 | MW-NASB-071 |
|---|---|---|---|---|---|---|---|---|
| | | | **Field Sample ID*:** | MW22 | M70 | MW-XD1 | MW71 | MW71 |
| | | | **Lab Sample ID:** | M64253-2 | M64253-3 | M64253-4 | M64253-5 | M64253-6 |
| | | | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | | | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab |
| | | | **Field QC:** | Original data | Original data | Field duplicates | Original data | Original data |
| | | | **Sampling Method:** | Passive Diffusion | Low-Flow | Low-Flow | Passive Diffusion | Low-Flow |
| | **Units** | **Federal MCL** | **Maine MEG** | | | | | |
| **SVOCs** | | | | | | | | |
| Hexachlorobenzene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Hexachlorobutadiene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Hexachlorocyclopentadiene | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| Hexachloroethane | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Indeno(1,2,3-cd)pyrene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Isophorone | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| N-Nitroso-di-N-propylamine | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| N-Nitrosodiphenylamine | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Naphthalene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Nitrobenzene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Pentachlorophenol | ug/l | NA | NA | - | 10 U | 10 U | - | 10 U |
| Phenanthrene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Phenol | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| Pyrene | ug/l | NA | NA | - | 5 U | 5 U | - | 5 U |
| **Metals** | | | | | | | | |
| Aluminum | ug/l | NA | 1430 | - | 200 U | 200 U | - | 52.2 J |
| Antimony | ug/l | 6 | 3 | - | 4 U | 4 U | - | 4 U |
| Arsenic | ug/l | 10 | 10 | - | 2 U | 2 U | - | 8.3 |
| Barium | ug/l | 2000 | 2000 | - | 14.6 J | 14.7 J | - | 4.1 J |
| Beryllium | ug/l | 4 | NA | - | 0.28 J | 4 UJ | - | 0.32 J |
| Cadmium | ug/l | 5 | 3.5 | - | 4 U | 4 U | - | 4 U |
| Calcium | ug/l | NA | NA | - | 20000 | 19600 | - | 8490 |
| Chromium | ug/l | 100 | 40 | - | 0.64 J | 1 J | - | 10 U |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | **Station ID:** | MW-NASB-022 | MW-NASB-070 | MW-NASB-070 | MW-NASB-071 | MW-NASB-071 |
|---|---|---|---|---|---|---|---|---|
| | | | **Field Sample ID*:** | MW22 | M70 | MW-XD1 | MW71 | MW71 |
| | | | **Lab Sample ID:** | M64253-2 | M64253-3 | M64253-4 | M64253-5 | M64253-6 |
| | | | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | | | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab |
| | | | **Field QC:** | Original data | Original data | Field duplicates | Original data | Original data |
| | | | **Sampling Method:** | Passive Diffusion | Low-Flow | Low-Flow | Passive Diffusion | Low-Flow |
| | **Units** | **Federal MCL** | **Maine MEG** | | | | | |
| **Metals** | | | | | | | | |
| Cobalt | ug/l | NA | NA | - | 2.4 J | 2.3 J | - | 0.88 J |
| Copper | ug/l | 1300 | 1300 | - | 1 J | 1.3 J | - | 1.1 J |
| Iron | ug/l | NA | NA | - | 18.8 J | 12.9 J | - | 9740 |
| Lead | ug/l | 15 | 10 | - | 1 U | 1 U | - | 0.28 J |
| Magnesium | ug/l | NA | NA | - | 1870 J | 1850 J | - | 3860 J |
| Manganese | ug/l | NA | 500 | - | 48.8 J | 75 J | - | 128 |
| Mercury | ug/l | 2 | 2 | - | 0.2 UJ | 0.026 J | - | 0.022 J |
| Nickel | ug/l | NA | 140 | - | 1.3 J | 1.3 J | - | 2.2 J |
| Potassium | ug/l | NA | NA | - | 618 J | 622 J | - | 2450 J |
| Selenium | ug/l | 50 | 35 | - | 10 U | 10 U | - | 1.2 J |
| Silver | ug/l | NA | 35 | - | 5 U | 5 U | - | 5 U |
| Sodium | ug/l | NA | 20000 | - | 12800 | 13000 | - | 25700 |
| Thallium | ug/l | 2 | 0.5 | - | 1 U | 1 U | - | 1 U |
| Vanadium | ug/l | NA | NA | - | 0.64 J | 30 UJ | - | 0.75 J |
| Zinc | ug/l | NA | 2000 | - | 5.3 J | 5.8 J | - | 8 J |
| **Other** | | | | | | | | |
| ME-DRO (C10-C28) | mg/l | NA | NA | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Station ID:** | MW-NASB-072 | MW-NASB-074 | MW-NASB-074 | MW-NASB-074 | MW-NASB-075 | MW-NASB-075 | MW-NASB-076 |
| | **Field Sample ID*:** | MW72 | MW-XD2 | MW74 | MW74 | MW75 | MW75 | MW76 |
| | **Lab Sample ID:** | M64253-7 | M64253-10 | M64253-8 | M64253-9 | M64253-11 | M64253-12 | M64253-13 |
| | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab |
| | **Field QC:** | Original data | Field duplicates | Original data | Original data | Original data | Original data | Original data |
| | **Sampling Method:** | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion |
| | **Units** | | | | | | | |
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,1,2,2-Tetrachloroethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,1,2-Trichloroethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,1-Dichloroethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,1-Dichloroethene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,2-Dichlorobenzene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,2-Dichloroethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,2-Dichloroethene, total | ug/l | 1 U | - | 1.7 | - | 1 U | - | 1 U |
| 1,2-Dichloropropane | ug/l | 2 U | - | 2 U | - | 2 U | - | 2 U |
| 1,3-Dichlorobenzene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 1,4-Dichlorobenzene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| 2-Butanone | ug/l | 5 U | - | 5 U | - | 5 U | - | 5 U |
| 2-Hexanone | ug/l | 5 U | - | 5 U | - | 5 U | - | 5 U |
| 4-Methyl-2-pentanone | ug/l | 5 U | - | 5 U | - | 5 U | - | 5 U |
| Acetone | ug/l | 5 U | - | 5 U | - | 5.3 | - | 6.3 |
| Benzene | ug/l | 0.5 U | - | 0.5 U | - | 0.5 U | - | 0.5 U |
| Bromodichloromethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Bromoform | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Bromomethane | ug/l | 2 UJ | - | 2 UJ | - | 2 UJ | - | 2 UJ |
| Carbon disulfide | ug/l | 5 UJ | - | 5 UJ | - | 5 UJ | - | 5 UJ |
| Carbon tetrachloride | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Chlorobenzene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Chloroethane | ug/l | 2 UJ | - | 2 UJ | - | 2 UJ | - | 2 UJ |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-072 | MW-NASB-074 | MW-NASB-074 | MW-NASB-074 | MW-NASB-075 | MW-NASB-075 | MW-NASB-076 |
| **Field Sample ID*:** | | MW72 | MW-XD2 | MW74 | MW74 | MW75 | MW75 | MW76 |
| **Lab Sample ID:** | | M64253-7 | M64253-10 | M64253-8 | M64253-9 | M64253-11 | M64253-12 | M64253-13 |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| **Lab Name:** | | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab |
| **Field QC:** | | Original data | Field duplicates | Original data | Original data | Original data | Original data | Original data |
| **Sampling Method:** | | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion |
| | **Units** | | | | | | | |
| **VOCs** | | | | | | | | |
| Chloroform | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Chloromethane | ug/l | 2 UJ | - | 2 UJ | - | 2 UJ | - | 2 UJ |
| cis-1,2-Dichloroethene | ug/l | 1 UJ | - | 1.7 J | - | 1 UJ | - | 1 UJ |
| cis-1,3-Dichloropropene | ug/l | 0.5 UJ | - | 0.5 UJ | - | 0.5 UJ | - | 0.5 UJ |
| Dibromochloromethane | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Ethylbenzene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Methyl tert butyl ether | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Methylene chloride | ug/l | 2 UJ | - | 2 UJ | - | 2 UJ | - | 2 UJ |
| Styrene | ug/l | 5 U | - | 5 U | - | 5 U | - | 5 U |
| Tetrachloroethene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Toluene | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| trans-1,2-Dichloroethene | ug/l | 1 UJ | - | 1 UJ | - | 1 UJ | - | 1 UJ |
| trans-1,3-Dichloropropene | ug/l | 0.5 UJ | - | 0.5 UJ | - | 0.5 UJ | - | 0.5 UJ |
| Trichloroethene | ug/l | 1 U | - | 1.3 | - | 1 U | - | 1 U |
| Trichlorofluoromethane | ug/l | 4.7 | - | 1 U | - | 68.2 | - | 1 U |
| Vinyl Chloride | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Xylenes, Total | ug/l | 1 U | - | 1 U | - | 1 U | - | 1 U |
| Total VOC | ug/l | 4.7 | - | 3.0 | - | 68.2 | - | U |
| **SVOCs** | | | | | | | | |
| 1,2,4-Trichlorobenzene | ug/l | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene | ug/l | - | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/l | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-072 | MW-NASB-074 | MW-NASB-074 | MW-NASB-074 | MW-NASB-075 | MW-NASB-075 | MW-NASB-076 |
| **Field Sample ID*:** | | MW72 | MW-XD2 | MW74 | MW74 | MW75 | MW75 | MW76 |
| **Lab Sample ID:** | | M64253-7 | M64253-10 | M64253-8 | M64253-9 | M64253-11 | M64253-12 | M64253-13 |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| **Lab Name:** | | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab |
| **Field QC:** | | Original data | Field duplicates | Original data | Original data | Original data | Original data | Original data |
| **Sampling Method:** | | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion |
| | **Units** | | | | | | | |
| **SVOCs** | | | | | | | | |
| 2,4,5-Trichlorophenol | ug/l | - | - | - | - | - | - | - |
| 2,4,6-Trichlorophenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dichlorophenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dimethylphenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dinitrophenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dinitrotoluene | ug/l | - | - | - | - | - | - | - |
| 2,6-Dinitrotoluene | ug/l | - | - | - | - | - | - | - |
| 2-Chloronaphthalene | ug/l | - | - | - | - | - | - | - |
| 2-Chlorophenol | ug/l | - | - | - | - | - | - | - |
| 2-Methylnaphthalene | ug/l | - | - | - | - | - | - | - |
| 2-Methylphenol | ug/l | - | - | - | - | - | - | - |
| 2-Nitroaniline | ug/l | - | - | - | - | - | - | - |
| 2-Nitrophenol | ug/l | - | - | - | - | - | - | - |
| 3,3'-Dichlorobenzidine | ug/l | - | - | - | - | - | - | - |
| 3-Methylphenol/4-Methylphenol | ug/l | - | - | - | - | - | - | - |
| 3-Nitroaniline | ug/l | - | - | - | - | - | - | - |
| 4,6-Dinitro-o-cresol | ug/l | - | - | - | - | - | - | - |
| 4-Bromophenyl phenyl ether | ug/l | - | - | - | - | - | - | - |
| 4-Chloro-3-methylphenol | ug/l | - | - | - | - | - | - | - |
| 4-Chloroaniline | ug/l | - | - | - | - | - | - | - |
| 4-Chlorophenyl phenyl ether | ug/l | - | - | - | - | - | - | - |
| 4-Nitroaniline | ug/l | - | - | - | - | - | - | - |
| 4-Nitrophenol | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-072 | MW-NASB-074 | MW-NASB-074 | MW-NASB-074 | MW-NASB-075 | MW-NASB-075 | MW-NASB-076 |
| **Field Sample ID*:** | | MW72 | MW-XD2 | MW74 | MW74 | MW75 | MW75 | MW76 |
| **Lab Sample ID:** | | M64253-7 | M64253-10 | M64253-8 | M64253-9 | M64253-11 | M64253-12 | M64253-13 |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| **Lab Name:** | | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab |
| **Field QC:** | | Original data | Field duplicates | Original data | Original data | Original data | Original data | Original data |
| **Sampling Method:** | | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion |
| | **Units** | | | | | | | |
| **SVOCs** | | | | | | | | |
| Acenaphthene | ug/l | - | - | - | - | - | - | - |
| Acenaphthylene | ug/l | - | - | - | - | - | - | - |
| Anthracene | ug/l | - | - | - | - | - | - | - |
| Benzo(a)anthracene | ug/l | - | - | - | - | - | - | - |
| Benzo(a)pyrene | ug/l | - | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/l | - | - | - | - | - | - | - |
| Benzo(g,h,i)perylene | ug/l | - | - | - | - | - | - | - |
| Benzo(k)fluoranthene | ug/l | - | - | - | - | - | - | - |
| bis(2-Chloroethoxy) methane | ug/l | - | - | - | - | - | - | - |
| bis(2-Chloroethyl) ether | ug/l | - | - | - | - | - | - | - |
| bis(2-Chloroisopropyl) ether | ug/l | - | - | - | - | - | - | - |
| bis(2-Ethylhexyl) phthalate | ug/l | - | - | - | - | - | - | - |
| Butyl benzyl phthalate | ug/l | - | - | - | - | - | - | - |
| Carbazole | ug/l | - | - | - | - | - | - | - |
| Chrysene | ug/l | - | - | - | - | - | - | - |
| Di-N-Butyl phthalate | ug/l | - | - | - | - | - | - | - |
| Di-N-Octyl phthalate | ug/l | - | - | - | - | - | - | - |
| Dibenzo(a,h)anthracene | ug/l | - | - | - | - | - | - | - |
| Dibenzofuran | ug/l | - | - | - | - | - | - | - |
| Diethyl phthalate | ug/l | - | - | - | - | - | - | - |
| Dimethyl phthalate | ug/l | - | - | - | - | - | - | - |
| Fluoranthene | ug/l | - | - | - | - | - | - | - |
| Fluorene | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-072 | MW-NASB-074 | MW-NASB-074 | MW-NASB-074 | MW-NASB-075 | MW-NASB-075 | MW-NASB-076 |
| **Field Sample ID*:** | | MW72 | MW-XD2 | MW74 | MW74 | MW75 | MW75 | MW76 |
| **Lab Sample ID:** | | M64253-7 | M64253-10 | M64253-8 | M64253-9 | M64253-11 | M64253-12 | M64253-13 |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| **Lab Name:** | | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab |
| **Field QC:** | | Original data | Field duplicates | Original data | Original data | Original data | Original data | Original data |
| **Sampling Method:** | | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion |
| | **Units** | | | | | | | |
| **SVOCs** | | | | | | | | |
| Hexachlorobenzene | ug/l | - | - | - | - | - | - | - |
| Hexachlorobutadiene | ug/l | - | - | - | - | - | - | - |
| Hexachlorocyclopentadiene | ug/l | - | - | - | - | - | - | - |
| Hexachloroethane | ug/l | - | - | - | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | ug/l | - | - | - | - | - | - | - |
| Isophorone | ug/l | - | - | - | - | - | - | - |
| N-Nitroso-di-N-propylamine | ug/l | - | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/l | - | - | - | - | - | - | - |
| Naphthalene | ug/l | - | - | - | - | - | - | - |
| Nitrobenzene | ug/l | - | - | - | - | - | - | - |
| Pentachlorophenol | ug/l | - | - | - | - | - | - | - |
| Phenanthrene | ug/l | - | - | - | - | - | - | - |
| Phenol | ug/l | - | - | - | - | - | - | - |
| Pyrene | ug/l | - | - | - | - | - | - | - |
| **Metals** | | | | | | | | |
| Aluminum | ug/l | - | - | - | - | - | - | - |
| Antimony | ug/l | - | - | - | - | - | - | - |
| Arsenic | ug/l | - | - | - | - | - | - | - |
| Barium | ug/l | - | - | - | - | - | - | - |
| Beryllium | ug/l | - | - | - | - | - | - | - |
| Cadmium | ug/l | - | - | - | - | - | - | - |
| Calcium | ug/l | - | - | - | - | - | - | - |
| Chromium | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Station ID:** | MW-NASB-072 | MW-NASB-074 | MW-NASB-074 | MW-NASB-074 | MW-NASB-075 | MW-NASB-075 | MW-NASB-076 |
| | **Field Sample ID*:** | MW72 | MW-XD2 | MW74 | MW74 | MW75 | MW75 | MW76 |
| | **Lab Sample ID:** | M64253-7 | M64253-10 | M64253-8 | M64253-9 | M64253-11 | M64253-12 | M64253-13 |
| | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 |
| | **Lab Name:** | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab | Acculab |
| | **Field QC:** | Original data | Field duplicates | Original data | Original data | Original data | Original data | Original data |
| | **Sampling Method:** | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion | Low-Flow | Passive Diffusion |
| | **Units** | | | | | | | |
| **Metals** | | | | | | | | |
| Cobalt | ug/l | - | - | - | - | - | - | - |
| Copper | ug/l | - | - | - | - | - | - | - |
| Iron | ug/l | - | - | - | - | - | - | - |
| Lead | ug/l | - | - | - | - | - | - | - |
| Magnesium | ug/l | - | - | - | - | - | - | - |
| Manganese | ug/l | - | - | - | - | - | - | - |
| Mercury | ug/l | - | - | - | - | - | - | - |
| Nickel | ug/l | - | - | - | - | - | - | - |
| Potassium | ug/l | - | - | - | - | - | - | - |
| Selenium | ug/l | - | - | - | - | - | - | - |
| Silver | ug/l | - | - | - | - | - | - | - |
| Sodium | ug/l | - | - | - | - | - | - | - |
| Thallium | ug/l | - | - | - | - | - | - | - |
| Vanadium | ug/l | - | - | - | - | - | - | - |
| Zinc | ug/l | - | - | - | - | - | - | - |
| **Other** | | | | | | | | |
| ME-DRO (C10-C28) | mg/l | - | 0.0668 J | - | 0.0634 J | - | 0.08 U | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-076 | MW-NASB-227 | MW-NASB-227 | | | | |
| **Field Sample ID*:** | | MW76 | MW227 | MW-XD3 | | | | |
| **Lab Sample ID:** | | M64253-14 | M64253-15 | M64253-16 | | | | |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | | | | |
| **Lab Name:** | | Acculab | Acculab | Acculab | | | | |
| **Field QC:** | | Original data | Original data | Field duplicates | | | | |
| **Sampling Method:** | | Low-Flow | Passive Diffusion | Passive Diffusion | | | | |
| | **Units** | | | | | | | |
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,1,2-Trichloroethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,1-Dichloroethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,1-Dichloroethene | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,2-Dichlorobenzene | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloroethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloroethene, total | ug/l | - | 2.7 | 2.2 | - | - | - | - |
| 1,2-Dichloropropane | ug/l | - | 2 U | 2 U | - | - | - | - |
| 1,3-Dichlorobenzene | ug/l | - | 1 U | 1 U | - | - | - | - |
| 1,4-Dichlorobenzene | ug/l | - | 1 U | 1 U | - | - | - | - |
| 2-Butanone | ug/l | - | 5 U | 5 U | - | - | - | - |
| 2-Hexanone | ug/l | - | 5 U | 5 U | - | - | - | - |
| 4-Methyl-2-pentanone | ug/l | - | 5 U | 5 U | - | - | - | - |
| Acetone | ug/l | - | 5 U | 5 U | - | - | - | - |
| Benzene | ug/l | - | 0.5 U | 0.5 U | - | - | - | - |
| Bromodichloromethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| Bromoform | ug/l | - | 1 U | 1 U | - | - | - | - |
| Bromomethane | ug/l | - | 2 UJ | 2 UJ | - | - | - | - |
| Carbon disulfide | ug/l | - | 5 UJ | 5 UJ | - | - | - | - |
| Carbon tetrachloride | ug/l | - | 1 U | 1 U | - | - | - | - |
| Chlorobenzene | ug/l | - | 1 U | 1 U | - | - | - | - |
| Chloroethane | ug/l | - | 2 UJ | 2 UJ | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-076 | MW-NASB-227 | MW-NASB-227 | | | | |
| **Field Sample ID*:** | | MW76 | MW227 | MW-XD3 | | | | |
| **Lab Sample ID:** | | M64253-14 | M64253-15 | M64253-16 | | | | |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | | | | |
| **Lab Name:** | | Acculab | Acculab | Acculab | | | | |
| **Field QC:** | | Original data | Original data | Field duplicates | | | | |
| **Sampling Method:** | | Low-Flow | Passive Diffusion | Passive Diffusion | | | | |
| | **Units** | | | | | | | |
| **VOCs** | | | | | | | | |
| Chloroform | ug/l | - | 1 U | 1 U | - | - | - | - |
| Chloromethane | ug/l | - | 2 UJ | 2 UJ | - | - | - | - |
| cis-1,2-Dichloroethene | ug/l | - | 2.7 J | 2.2 J | - | - | - | - |
| cis-1,3-Dichloropropene | ug/l | - | 0.5 UJ | 0.5 UJ | - | - | - | - |
| Dibromochloromethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| Ethylbenzene | ug/l | - | 1 U | 1 U | - | - | - | - |
| Methyl tert butyl ether | ug/l | - | 0.43 J | 1 UJ | - | - | - | - |
| Methylene chloride | ug/l | - | 2 UJ | 2 UJ | - | - | - | - |
| Styrene | ug/l | - | 5 U | 5 U | - | - | - | - |
| Tetrachloroethene | ug/l | - | 1 U | 1 U | - | - | - | - |
| Toluene | ug/l | - | 1 U | 1 U | - | - | - | - |
| trans-1,2-Dichloroethene | ug/l | - | 1 UJ | 1 UJ | - | - | - | - |
| trans-1,3-Dichloropropene | ug/l | - | 0.5 UJ | 0.5 UJ | - | - | - | - |
| Trichloroethene | ug/l | - | 3.1 | 2.3 | - | - | - | - |
| Trichlorofluoromethane | ug/l | - | 1 U | 1 U | - | - | - | - |
| Vinyl Chloride | ug/l | - | 1 U | 1 U | - | - | - | - |
| Xylenes, Total | ug/l | - | 1 U | 1 U | - | - | - | - |
| Total VOC | ug/l | - | 6.23 | 6.7 | - | - | - | - |
| **SVOCs** | | | | | | | | |
| 1,2,4-Trichlorobenzene | ug/l | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene | ug/l | - | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/l | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Station ID:** | MW-NASB-076 | MW-NASB-227 | MW-NASB-227 | | | | |
| | **Field Sample ID*:** | MW76 | MW227 | MW-XD3 | | | | |
| | **Lab Sample ID:** | M64253-14 | M64253-15 | M64253-16 | | | | |
| | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | | | | |
| | **Lab Name:** | Acculab | Acculab | Acculab | | | | |
| | **Field QC:** | Original data | Original data | Field duplicates | | | | |
| | **Sampling Method:** | Low-Flow | Passive Diffusion | Passive Diffusion | | | | |
| | **Units** | | | | | | | |
| **SVOCs** | | | | | | | | |
| 2,4,5-Trichlorophenol | ug/l | - | - | - | - | - | - | - |
| 2,4,6-Trichlorophenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dichlorophenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dimethylphenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dinitrophenol | ug/l | - | - | - | - | - | - | - |
| 2,4-Dinitrotoluene | ug/l | - | - | - | - | - | - | - |
| 2,6-Dinitrotoluene | ug/l | - | - | - | - | - | - | - |
| 2-Chloronaphthalene | ug/l | - | - | - | - | - | - | - |
| 2-Chlorophenol | ug/l | - | - | - | - | - | - | - |
| 2-Methylnaphthalene | ug/l | - | - | - | - | - | - | - |
| 2-Methylphenol | ug/l | - | - | - | - | - | - | - |
| 2-Nitroaniline | ug/l | - | - | - | - | - | - | - |
| 2-Nitrophenol | ug/l | - | - | - | - | - | - | - |
| 3,3'-Dichlorobenzidine | ug/l | - | - | - | - | - | - | - |
| 3-Methylphenol/4-Methylphenol | ug/l | - | - | - | - | - | - | - |
| 3-Nitroaniline | ug/l | - | - | - | - | - | - | - |
| 4,6-Dinitro-o-cresol | ug/l | - | - | - | - | - | - | - |
| 4-Bromophenyl phenyl ether | ug/l | - | - | - | - | - | - | - |
| 4-Chloro-3-methylphenol | ug/l | - | - | - | - | - | - | - |
| 4-Chloroaniline | ug/l | - | - | - | - | - | - | - |
| 4-Chlorophenyl phenyl ether | ug/l | - | - | - | - | - | - | - |
| 4-Nitroaniline | ug/l | - | - | - | - | - | - | - |
| 4-Nitrophenol | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Station ID:** | | MW-NASB-076 | MW-NASB-227 | MW-NASB-227 | | | | |
| **Field Sample ID*:** | | MW76 | MW227 | MW-XD3 | | | | |
| **Lab Sample ID:** | | M64253-14 | M64253-15 | M64253-16 | | | | |
| **Sample Date:** | | 4/18/2007 | 4/18/2007 | 4/18/2007 | | | | |
| **Lab Name:** | | Acculab | Acculab | Acculab | | | | |
| **Field QC:** | | Original data | Original data | Field duplicates | | | | |
| **Sampling Method:** | | Low-Flow | Passive Diffusion | Passive Diffusion | | | | |
| | **Units** | | | | | | | |
| **SVOCs** | | | | | | | | |
| Acenaphthene | ug/l | - | - | - | - | - | - | - |
| Acenaphthylene | ug/l | - | - | - | - | - | - | - |
| Anthracene | ug/l | - | - | - | - | - | - | - |
| Benzo(a)anthracene | ug/l | - | - | - | - | - | - | - |
| Benzo(a)pyrene | ug/l | - | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/l | - | - | - | - | - | - | - |
| Benzo(g,h,i)perylene | ug/l | - | - | - | - | - | - | - |
| Benzo(k)fluoranthene | ug/l | - | - | - | - | - | - | - |
| bis(2-Chloroethoxy) methane | ug/l | - | - | - | - | - | - | - |
| bis(2-Chloroethyl) ether | ug/l | - | - | - | - | - | - | - |
| bis(2-Chloroisopropyl) ether | ug/l | - | - | - | - | - | - | - |
| bis(2-Ethylhexyl) phthalate | ug/l | - | - | - | - | - | - | - |
| Butyl benzyl phthalate | ug/l | - | - | - | - | - | - | - |
| Carbazole | ug/l | - | - | - | - | - | - | - |
| Chrysene | ug/l | - | - | - | - | - | - | - |
| Di-N-Butyl phthalate | ug/l | - | - | - | - | - | - | - |
| Di-N-Octyl phthalate | ug/l | - | - | - | - | - | - | - |
| Dibenzo(a,h)anthracene | ug/l | - | - | - | - | - | - | - |
| Dibenzofuran | ug/l | - | - | - | - | - | - | - |
| Diethyl phthalate | ug/l | - | - | - | - | - | - | - |
| Dimethyl phthalate | ug/l | - | - | - | - | - | - | - |
| Fluoranthene | ug/l | - | - | - | - | - | - | - |
| Fluorene | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Station ID:** | MW-NASB-076 | MW-NASB-227 | MW-NASB-227 | | | | |
| | **Field Sample ID*:** | MW76 | MW227 | MW-XD3 | | | | |
| | **Lab Sample ID:** | M64253-14 | M64253-15 | M64253-16 | | | | |
| | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | | | | |
| | **Lab Name:** | Acculab | Acculab | Acculab | | | | |
| | **Field QC:** | Original data | Original data | Field duplicates | | | | |
| | **Sampling Method:** | Low-Flow | Passive Diffusion | Passive Diffusion | | | | |
| | **Units** | | | | | | | |
| **SVOCs** | | | | | | | | |
| Hexachlorobenzene | ug/l | - | - | - | - | - | - | - |
| Hexachlorobutadiene | ug/l | - | - | - | - | - | - | - |
| Hexachlorocyclopentadiene | ug/l | - | - | - | - | - | - | - |
| Hexachloroethane | ug/l | - | - | - | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | ug/l | - | - | - | - | - | - | - |
| Isophorone | ug/l | - | - | - | - | - | - | - |
| N-Nitroso-di-N-propylamine | ug/l | - | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/l | - | - | - | - | - | - | - |
| Naphthalene | ug/l | - | - | - | - | - | - | - |
| Nitrobenzene | ug/l | - | - | - | - | - | - | - |
| Pentachlorophenol | ug/l | - | - | - | - | - | - | - |
| Phenanthrene | ug/l | - | - | - | - | - | - | - |
| Phenol | ug/l | - | - | - | - | - | - | - |
| Pyrene | ug/l | - | - | - | - | - | - | - |
| **Metals** | | | | | | | | |
| Aluminum | ug/l | - | - | - | - | - | - | - |
| Antimony | ug/l | - | - | - | - | - | - | - |
| Arsenic | ug/l | - | - | - | - | - | - | - |
| Barium | ug/l | - | - | - | - | - | - | - |
| Beryllium | ug/l | - | - | - | - | - | - | - |
| Cadmium | ug/l | - | - | - | - | - | - | - |
| Calcium | ug/l | - | - | - | - | - | - | - |
| Chromium | ug/l | - | - | - | - | - | - | - |

# Table 2-1
# Summary of Groundwater Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Station ID:** | MW-NASB-076 | MW-NASB-227 | MW-NASB-227 | | | | |
| | **Field Sample ID*:** | MW76 | MW227 | MW-XD3 | | | | |
| | **Lab Sample ID:** | M64253-14 | M64253-15 | M64253-16 | | | | |
| | **Sample Date:** | 4/18/2007 | 4/18/2007 | 4/18/2007 | | | | |
| | **Lab Name:** | Acculab | Acculab | Acculab | | | | |
| | **Field QC:** | Original data | Original data | Field duplicates | | | | |
| | **Sampling Method:** | Low-Flow | Passive Diffusion | Passive Diffusion | | | | |
| | **Units** | | | | | | | |
| **Metals** | | | | | | | | |
| Cobalt | ug/l | - | - | - | - | - | - | - |
| Copper | ug/l | - | - | - | - | - | - | - |
| Iron | ug/l | - | - | - | - | - | - | - |
| Lead | ug/l | - | - | - | - | - | - | - |
| Magnesium | ug/l | - | - | - | - | - | - | - |
| Manganese | ug/l | - | - | - | - | - | - | - |
| Mercury | ug/l | - | - | - | - | - | - | - |
| Nickel | ug/l | - | - | - | - | - | - | - |
| Potassium | ug/l | - | - | - | - | - | - | - |
| Selenium | ug/l | - | - | - | - | - | - | - |
| Silver | ug/l | - | - | - | - | - | - | - |
| Sodium | ug/l | - | - | - | - | - | - | - |
| Thallium | ug/l | - | - | - | - | - | - | - |
| Vanadium | ug/l | - | - | - | - | - | - | - |
| Zinc | ug/l | - | - | - | - | - | - | - |
| **Other** | | | | | | | | |
| ME-DRO (C10-C28) | mg/l | 0.0681 J | - | - | - | - | - | - |

## Table 2-1

Notes:

MEG - obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, Memorandum dated 23 October 1992.
MCL - obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998).
Screening Value - Risk Based Ecological Screening Values for Surface Water, Seep Water, and Sediment at the Naval Air Station Brunswick, EA Science and Technology, January, 2006
* Field Sample IDs begin with **BN-9-30-** for samples collected from Site 9 during Monitoring Event 30.
VOCs analyzed by EPA Method 8260B.
Target Analyte List Metals analyzed by EPA 6000/7000 series methods.
Pesticides analyzed by EPA Method 8081A.

Acronyms:

| | |
|---|---|
| - | Not sampled |
| EPA | U.S. Environmental Protection Agency |
| ID | Identification |
| MCL | Maximum Contaminant Level |
| MEG | Maximum Exposure Guideline |
| mg/kg | milligrams per kilogram |
| mg/L | milligrams per liter |
| NA | Criteria not applicable |
| VOC | Volatile Organic Compound |
| ug/L | micrograms per liter |

Validation Qualifiers:

| | |
|---|---|
| U | Not detected down to the Method Detection Limit (MDL). MDLs are provided in Appendix B (Analytical Data Quality Review). |
| J | Estimated concentration |
| UJ | Not detected. Sample quantitation limit is estimated. |
| R | Value rejected by data validator |

Total VOC calculation does not include common laboratory contaminants (acetone, methylene chloride, 2-butanone), VOCs detected in the blank samples, or 1,4-dioxane.
Highlighted concentrations indicate exceedance of an MEG, MCL or screening level. The color of the highlight indicated which screening level was exceeded.
Refer to the Data Quality Review section for reporting limits and method detection limits for all analyzed compounds.

**VOC Contaminants of Concern:**
1,1-Dichloroethane
1,2-Dichloroethene, total
Ethylbenzene
Toluene
Vinyl Chloride
Xylenes, total

**Metals Contaminants of Concern:**
Cadmium
Chromium
Manganese

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# Table 2-2
# Summary of Leachate Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | LT-901 | LT-901 | | | | |
| | | **Field Sample ID*:** | LT-901 | LT-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-3 | M63904-5 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | 11 | 1 U | 1 U | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ug/l | 610 | 1 U | 1 U | - | - | - | - |
| 1,1,2-Trichloroethane | ug/l | 1200 | 1 U | 1 U | - | - | - | - |
| 1,1-Dichloroethane | ug/l | 47 | 1 U | 1 U | - | - | - | - |
| 1,1-Dichloroethene | ug/l | 25 | 1 U | 1 U | - | - | - | - |
| 1,2-Dichlorobenzene | ug/l | 14 | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloroethane | ug/l | 910 | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloroethene, total | ug/l | NA | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloropropane | ug/l | 2160 | 2 U | 2 U | - | - | - | - |
| 1,3-Dichlorobenzene | ug/l | 71 | 1 U | 1 U | - | - | - | - |
| 1,4-Dichlorobenzene | ug/l | 15 | 1 U | 1 U | - | - | - | - |
| 2-Butanone | ug/l | 14000 | 5 U | 5 U | - | - | - | - |
| 2-Hexanone | ug/l | 99 | 5 U | 5 U | - | - | - | - |
| 4-Methyl-2-pentanone | ug/l | 170 | 5 U | 5 U | - | - | - | - |
| Acetone | ug/l | 1500 | 5 U | 5 U | - | - | - | - |
| Benzene | ug/l | 130 | 0.5 U | 0.5 U | - | - | - | - |
| Bromodichloromethane | ug/l | 2610 | 1 U | 1 U | - | - | - | - |
| Bromoform | ug/l | 2300 | 1 U | 1 U | - | - | - | - |
| Bromomethane | ug/l | 9450 | 2 U | 2 U | - | - | - | - |
| Carbon disulfide | ug/l | 92 | 5 U | 5 U | - | - | - | - |
| Carbon tetrachloride | ug/l | 9.8 | 1 U | 1 U | - | - | - | - |
| Chlorobenzene | ug/l | 64 | 1 U | 1 U | - | - | - | - |
| Chloroethane | ug/l | NA | 2 U | 2 U | - | - | - | - |

# Table 2-2
# Summary of Leachate Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | LT-901 | LT-901 | | | | |
| | | **Field Sample ID*:** | LT-901 | LT-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-3 | M63904-5 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **VOCs** | | | | | | | | |
| Chloroform | ug/l | 28 | 1 U | 1 U | - | - | - | - |
| Chloromethane | ug/l | 6000 | 2 U | 2 U | - | - | - | - |
| cis-1,2-Dichloroethene | ug/l | 590 | 1 U | 1 U | - | - | - | - |
| cis-1,3-Dichloropropene | ug/l | 0.085 | 0.5 U | 0.5 U | - | - | - | - |
| Dibromochloromethane | ug/l | 2510 | 1 U | 1 U | - | - | - | - |
| Ethylbenzene | ug/l | 7.3 | 1 U | 1 U | - | - | - | - |
| Methyl tert butyl ether | ug/l | 51000 | 1 U | 1 U | - | - | - | - |
| Methylene chloride | ug/l | 2200 | 2 U | 2 U | - | - | - | - |
| Styrene | ug/l | 300 | 5 U | 5 U | - | - | - | - |
| Tetrachloroethene | ug/l | 98 | 1 U | 1 U | - | - | - | - |
| Toluene | ug/l | 9.8 | 1 U | 1 U | - | - | - | - |
| trans-1,2-Dichloroethene | ug/l | 590 | 1 U | 1 U | - | - | - | - |
| trans-1,3-Dichloropropene | ug/l | 0.085 | 0.5 U | 0.5 U | - | - | - | - |
| Trichloroethene | ug/l | 47 | 1 U | 1 U | - | - | - | - |
| Trichlorofluoromethane | ug/l | 110 | 1 U | 1 U | - | - | - | - |
| Vinyl Chloride | ug/l | 0.069 | 1 U | 1 U | - | - | - | - |
| Xylenes, Total | ug/l | 1.8 | 1 U | 1 U | - | - | - | - |
| **Metals** | | | | | | | | |
| Aluminum | ug/l | 87 | 45300 J | 31700 J | - | - | - | - |
| Antimony | ug/l | 30 | 4 U | 4 U | - | - | - | - |
| Arsenic | ug/l | 150 | 4.3 J | 2.3 J | - | - | - | - |
| Barium | ug/l | 3.9 | 938 J | 643 J | - | - | - | - |
| Beryllium | ug/l | 0.66 | 2.8 J | 1.5 J | - | - | - | - |

# Table 2-2
# Summary of Leachate Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | LT-901 | LT-901 | | | | |
| | | **Field Sample ID*:** | LT-901 | LT-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-3 | M63904-5 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **Metals** | | | | | | | | |
| Cadmium | ug/l | 0.08 | 12 U | 12 U | - | - | - | - |
| Calcium | ug/l | NA | 73300 J | 51500 J | - | - | - | - |
| Chromium | ug/l | 11 | 89.9 J | 77.4 | - | - | - | - |
| Cobalt | ug/l | 23 | 37.3 J | 27.7 J | - | - | - | - |
| Copper | ug/l | 2.36 | 155 J | 107 | - | - | - | - |
| Iron | ug/l | 1000 | 733000 J | 523000 J | - | - | - | - |
| Lead | ug/l | 0.41 | 77.6 | 69.8 | - | - | - | - |
| Magnesium | ug/l | NA | 15700 J | 12400 | - | - | - | - |
| Manganese | ug/l | 120 | 12600 J | 14100 | - | - | - | - |
| Mercury | ug/l | 0.91 | 0.15 J | 0.12 J | - | - | - | - |
| Nickel | ug/l | 13.4 | 66.7 | 52.7 | - | - | - | - |
| Potassium | ug/l | NA | 10200 J | 7350 J | - | - | - | - |
| Selenium | ug/l | 5 | 10 U | 10 U | - | - | - | - |
| Silver | ug/l | 0.23 | 1.2 J | 1.7 J | - | - | - | - |
| Sodium | ug/l | NA | 32500 | 30500 | - | - | - | - |
| Thallium | ug/l | 12 | 0.36 U | 0.13 U | - | - | - | - |
| Vanadium | ug/l | 20 | 136 J | 101 | - | - | - | - |
| Zinc | ug/l | NA | 898 J | 777 | - | - | - | - |

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# Table 2-3
# Summary of Sediment Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | SED-010 | SED-010 | | | | |
| | | **Field Sample ID*:** | SED-10 | SED-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-2 | M63904-6 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | mg/kg | 0.17 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.94 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,1,2-Trichloroethane | mg/kg | 0.17 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,1-Dichloroethane | mg/kg | 4.6 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,1-Dichloroethene | mg/kg | 4.8 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,2-Dichlorobenzene | mg/kg | 0.34 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,2-Dichloroethane | mg/kg | 4.4 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,2-Dichloroethene, total | mg/kg | NA | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,2-Dichloropropane | mg/kg | 5.8 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,3-Dichlorobenzene | mg/kg | 1.7 | 0.0016 U | 0.0016 U | - | - | - | - |
| 1,4-Dichlorobenzene | mg/kg | 0.35 | 0.0016 U | 0.0016 U | - | - | - | - |
| 2-Butanone | mg/kg | 2.9 | 0.004 U | 0.0041 U | - | - | - | - |
| 2-Hexanone | mg/kg | 4.4 | 0.004 UJ | 0.0041 U | - | - | - | - |
| 4-Methyl-2-pentanone | mg/kg | 0.026 | 0.004 U | 0.0041 U | - | - | - | - |
| Acetone | mg/kg | 2.3 | 0.0479 | 0.0275 | - | - | - | - |
| Benzene | mg/kg | 0.057 | 0.0004 U | 0.0041 U | - | - | - | - |
| Bromodichloromethane | mg/kg | 7.7 | 0.0016 U | 0.0016 U | - | - | - | - |
| Bromoform | mg/kg | 12.2 | 0.0016 U | 0.0016 U | - | - | - | - |
| Bromomethane | mg/kg | 1.4 | 0.0016 U | 0.0016 U | - | - | - | - |
| Carbon disulfide | mg/kg | 0.0016 | 0.0054 | 0.003 J | - | - | - | - |
| Carbon tetrachloride | mg/kg | 7.7 | 0.0016 U | 0.0016 U | - | - | - | - |
| Chlorobenzene | mg/kg | 0.82 | 0.0016 U | 0.0016 U | - | - | - | - |
| Chloroethane | mg/kg | 2.9 | 0.004 U | 0.0041 U | - | - | - | - |

# Table 2-3
# Summary of Sediment Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | SED-010 | SED-010 | | | | |
| | | **Field Sample ID*:** | SED-10 | SED-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-2 | M63904-6 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **VOCs** | | | | | | | | |
| Chloroform | mg/kg | 5.6 | 0.0016 U | 0.0016 U | - | - | - | - |
| Chloromethane | mg/kg | 2.1 | 0.004 U | 0.0041 U | - | - | - | - |
| cis-1,3-Dichloropropene | mg/kg | 0.000023 | 0.0016 U | 0.0016 U | - | - | - | - |
| Dibromochloromethane | mg/kg | 9.9 | 0.0016 U | 0.0016 U | - | - | - | - |
| Ethylbenzene | mg/kg | 3.6 | 0.0016 U | 0.0016 U | - | - | - | - |
| Methylene chloride | mg/kg | 3.7 | 0.0016 UJ | 0.0016 U | - | - | - | - |
| Styrene | mg/kg | 9.2 | 0.004 U | 0.0041 UJ | - | - | - | - |
| Tetrachloroethene | mg/kg | 0.53 | 0.0016 U | 0.0016 U | - | - | - | - |
| Toluene | mg/kg | 0.67 | 0.004 U | 0.0041 U | - | - | - | - |
| trans-1,3-Dichloropropene | mg/kg | 0.000023 | 0.0016 U | 0.0016 U | - | - | - | - |
| Trichloroethene | mg/kg | 1.4 | 0.0016 U | 0.0016 U | - | - | - | - |
| Vinyl Chloride | mg/kg | 0.000016 | 0.0016 U | 0.0016 U | - | - | - | - |
| Xylenes, Total | mg/kg | 9.7 | 0.0016 U | 0.0016 UJ | - | - | - | - |
| **SVOCs** | | | | | | | | |
| Hexachlorobutadiene | mg/kg | NA | 0.004 U | 0.0041 U | - | - | - | - |
| **Metals** | | | | | | | | |
| Aluminum | mg/kg | 26000 | 2490 | 2500 | - | - | - | - |
| Antimony | mg/kg | 0.16 | 2.2 U | 2.3 U | - | - | - | - |
| Arsenic | mg/kg | 9.8 | 0.96 | 0.87 J | - | - | - | - |
| Barium | mg/kg | 0.7 | 8.7 | 8.1 J | - | - | - | - |
| Beryllium | mg/kg | 0.55 | 0.56 J | 0.14 J | - | - | - | - |
| Cadmium | mg/kg | 0.99 | 0.057 J | 0.041 J | - | - | - | - |
| Calcium | mg/kg | NA | 450 J | 399 J | - | - | - | - |

# Table 2-3
# Summary of Sediment Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | SED-010 | SED-010 | | | | |
| | | **Field Sample ID*:** | SED-10 | SED-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-2 | M63904-6 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **Metals** | | | | | | | | |
| Chromium | mg/kg | 43.4 | 4.6 | 6.1 | - | - | - | - |
| Cobalt | mg/kg | 10 | 1.6 J | 1.5 J | - | - | - | - |
| Copper | mg/kg | 31.6 | 5 | 3.9 | - | - | - | - |
| Iron | mg/kg | 10000 | 3390 | 3340 | - | - | - | - |
| Lead | mg/kg | 35.8 | 9.3 | 8.2 | - | - | - | - |
| Magnesium | mg/kg | NA | 849 | 811 | - | - | - | - |
| Manganese | mg/kg | 630 | 44.9 | 44.5 | - | - | - | - |
| Mercury | mg/kg | 0.18 | 0.039 U | 0.043 U | - | - | - | - |
| Nickel | mg/kg | 22.7 | 4.4 | 4 J | - | - | - | - |
| Potassium | mg/kg | NA | 290 J | 316 J | - | - | - | - |
| Selenium | mg/kg | 0.29 | 0.55 U | 0.15 J | - | - | - | - |
| Silver | mg/kg | 0.5 | 0.55 U | 0.57 U | - | - | - | - |
| Sodium | mg/kg | NA | 143 | 126 J | - | - | - | - |
| Thallium | mg/kg | NA | 2.2 U | 2.3 U | - | - | - | - |
| Vanadium | mg/kg | 43 | 6.7 | 6 | - | - | - | - |
| Zinc | mg/kg | NA | 20.8 J | 17.9 J | - | - | - | - |

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# Table 2-4
# Summary of Surface Water Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | SW-010 | SW-010 | | | | |
| | | **Field Sample ID*:** | SW-10 | SW-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-1 | M63904-4 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **VOCs** | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | 11 | 1 U | 1 U | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ug/l | 610 | 1 U | 1 U | - | - | - | - |
| 1,1,2-Trichloroethane | ug/l | 1200 | 1 U | 1 U | - | - | - | - |
| 1,1-Dichloroethane | ug/l | 47 | 1 U | 1 U | - | - | - | - |
| 1,1-Dichloroethene | ug/l | 25 | 1 U | 1 U | - | - | - | - |
| 1,2-Dichlorobenzene | ug/l | 14 | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloroethane | ug/l | 910 | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloroethene, total | ug/l | NA | 1 U | 1 U | - | - | - | - |
| 1,2-Dichloropropane | ug/l | 2160 | 2 U | 2 U | - | - | - | - |
| 1,3-Dichlorobenzene | ug/l | 71 | 1 U | 1 U | - | - | - | - |
| 1,4-Dichlorobenzene | ug/l | 15 | 1 U | 1 U | - | - | - | - |
| 2-Butanone | ug/l | 14000 | 5 U | 5 U | - | - | - | - |
| 2-Hexanone | ug/l | 99 | 5 U | 5 U | - | - | - | - |
| 4-Methyl-2-pentanone | ug/l | 170 | 5 U | 5 U | - | - | - | - |
| Acetone | ug/l | 1500 | 5 U | 5 U | - | - | - | - |
| Benzene | ug/l | 130 | 0.5 U | 0.5 U | - | - | - | - |
| Bromodichloromethane | ug/l | 2610 | 1 U | 1 U | - | - | - | - |
| Bromoform | ug/l | 2300 | 1 U | 1 U | - | - | - | - |
| Bromomethane | ug/l | 9450 | 2 U | 2 U | - | - | - | - |
| Carbon disulfide | ug/l | 92 | 5 U | 5 U | - | - | - | - |
| Carbon tetrachloride | ug/l | 9.8 | 1 U | 1 U | - | - | - | - |
| Chlorobenzene | ug/l | 64 | 1 U | 1 U | - | - | - | - |
| Chloroethane | ug/l | NA | 2 U | 2 U | - | - | - | - |

# Table 2-4
# Summary of Surface Water Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | SW-010 | SW-010 | | | | |
| | | **Field Sample ID*:** | SW-10 | SW-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-1 | M63904-4 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **VOCs** | | | | | | | | |
| Chloroform | ug/l | 28 | 1 U | 1 U | - | - | - | - |
| Chloromethane | ug/l | 6000 | 2 U | 2 U | - | - | - | - |
| cis-1,2-Dichloroethene | ug/l | 590 | 1 U | 1 U | - | - | - | - |
| cis-1,3-Dichloropropene | ug/l | 0.085 | 0.5 U | 0.5 U | - | - | - | - |
| Dibromochloromethane | ug/l | 2510 | 1 U | 1 U | - | - | - | - |
| Ethylbenzene | ug/l | 7.3 | 1 U | 1 U | - | - | - | - |
| Methyl tert butyl ether | ug/l | 51000 | 1 U | 1 U | - | - | - | - |
| Methylene chloride | ug/l | 2200 | 2 UJ | 2 U | - | - | - | - |
| Styrene | ug/l | 300 | 5 U | 5 U | - | - | - | - |
| Tetrachloroethene | ug/l | 98 | 1 U | 1 U | - | - | - | - |
| Toluene | ug/l | 9.8 | 1 U | 1 U | - | - | - | - |
| trans-1,2-Dichloroethene | ug/l | 590 | 1 U | 1 U | - | - | - | - |
| trans-1,3-Dichloropropene | ug/l | 0.085 | 0.5 U | 0.5 U | - | - | - | - |
| Trichloroethene | ug/l | 47 | 1 U | 1 U | - | - | - | - |
| Trichlorofluoromethane | ug/l | 110 | 1 U | 1 U | - | - | - | - |
| Vinyl Chloride | ug/l | 0.069 | 1 U | 1 U | - | - | - | - |
| Xylenes, Total | ug/l | 1.8 | 1 U | 1 U | - | - | - | - |
| **Metals** | | | | | | | | |
| Aluminum | ug/l | 87 | 247 | 264 | - | - | - | - |
| Antimony | ug/l | 30 | 4 U | 4 U | - | - | - | - |
| Arsenic | ug/l | 150 | 2 U | 2 U | - | - | - | - |
| Barium | ug/l | 3.9 | 23.4 J | 22.9 J | - | - | - | - |
| Beryllium | ug/l | 0.66 | 4 U | 4 U | - | - | - | - |

# Table 2-4
# Summary of Surface Water Results - Site 9
# April 2007 (Monitoring Event 30)
# Naval Air Station, Brunswick, Maine

**Site Name:** Site 9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **Station ID:** | SW-010 | SW-010 | | | | |
| | | **Field Sample ID*:** | SW-10 | SW-XD1 | | | | |
| | | **Lab Sample ID:** | M63904-1 | M63904-4 | | | | |
| | | **Sample Date:** | 4/4/2007 | 4/4/2007 | | | | |
| | | **Lab Name:** | Acculab | Acculab | | | | |
| | | **Field QC:** | Original data | Field duplicates | | | | |
| | | **Sampling Method:** | Grab | Grab | | | | |
| | **Units** | **Screening Value** | | | | | | |
| **Metals** | | | | | | | | |
| Cadmium | ug/l | 0.08 | 4 U | 4 U | - | - | - | - |
| Calcium | ug/l | NA | 19400 | 18600 | - | - | - | - |
| Chromium | ug/l | 11 | 0.71 J | 1.1 J | - | - | - | - |
| Cobalt | ug/l | 23 | 50 U | 0.7 J | - | - | - | - |
| Copper | ug/l | 2.36 | 4.4 J | 3.9 J | - | - | - | - |
| Iron | ug/l | 1000 | 697 | 760 | - | - | - | - |
| Lead | ug/l | 0.41 | 1.1 | 0.9 | - | - | - | - |
| Magnesium | ug/l | NA | 2560 J | 2450 | - | - | - | - |
| Manganese | ug/l | 120 | 371 | 355 | - | - | - | - |
| Mercury | ug/l | 0.91 | 0.2 U | 0.2 U | - | - | - | - |
| Nickel | ug/l | 13.4 | 2.1 J | 2.1 J | - | - | - | - |
| Potassium | ug/l | NA | 2040 J | 1980 J | - | - | - | - |
| Selenium | ug/l | 5 | 10 U | 10 U | - | - | - | - |
| Silver | ug/l | 0.23 | 5 U | 5 U | - | - | - | - |
| Sodium | ug/l | NA | 27100 | 26100 | - | - | - | - |
| Thallium | ug/l | 12 | 0.31 U | 1 U | - | - | - | - |
| Vanadium | ug/l | 20 | 1.6 J | 1.4 J | - | - | - | - |
| Zinc | ug/l | NA | 28.6 | 29.9 | - | - | - | - |

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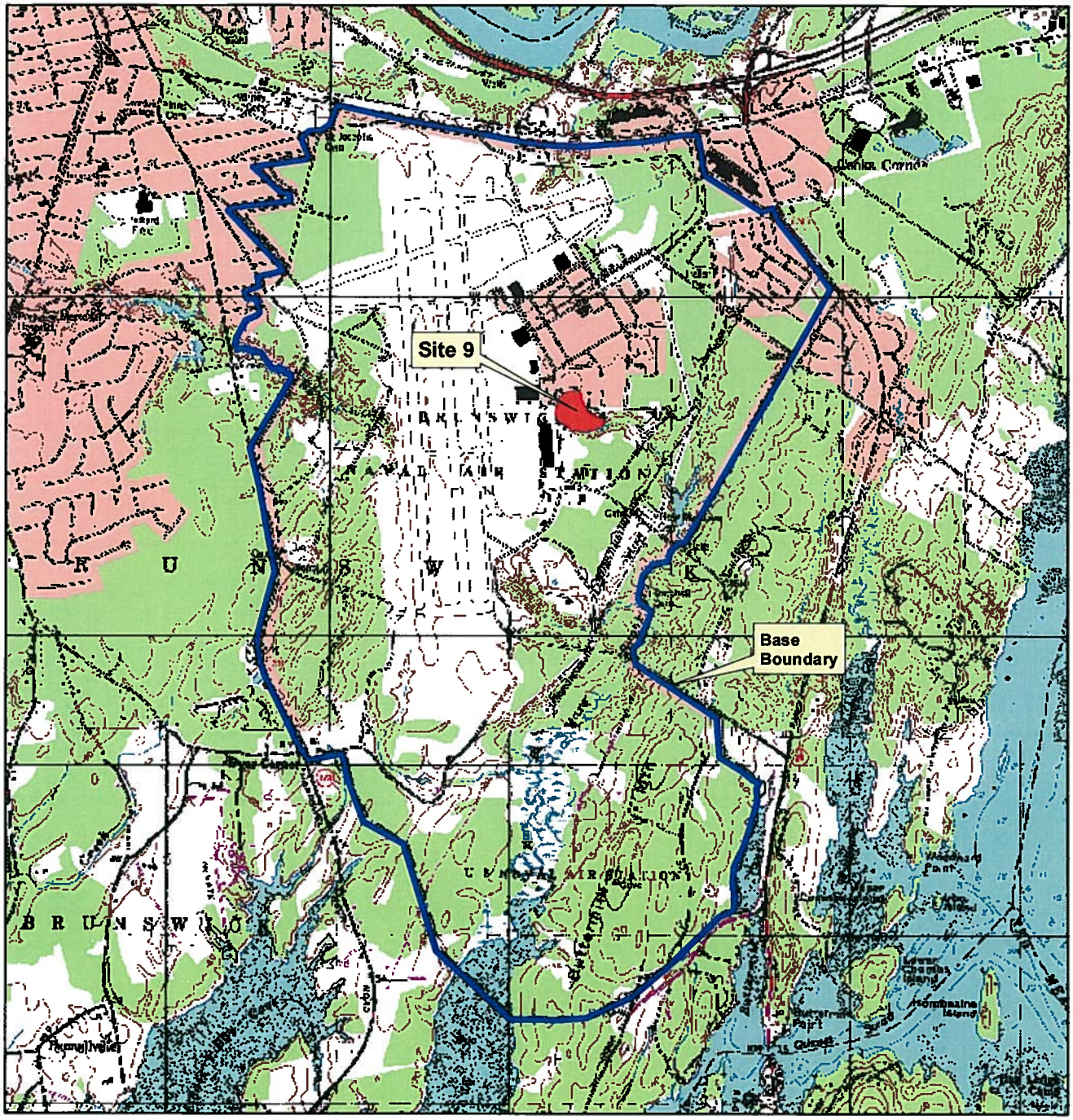
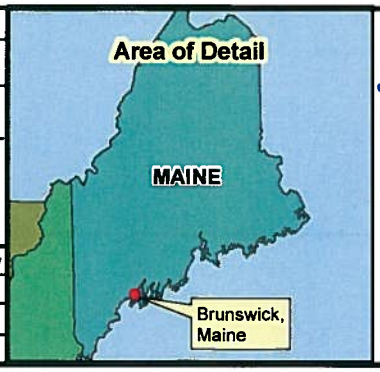
# FIGURES




| | |
|---|---|
| Contract. No. | N62472-02-D-0810 |
| Description | Site 9, NAS Brunswick, ME |
| Coordinate system | NAD 1983, UTM, Zone 19 N in meters |
| Sources | Naval Base Boundary provided by Navy. |

| Date | 09-AUG-2007 | Rev. | Date | App. By |
|---|---|---|---|---|
| DB | C. Guido | | | |
| CB | G. Calderone | | | |
| AB | | | | |




**Legend**

- Naval Air Station Brunswick Boundary
- Approximate Location of Site 9

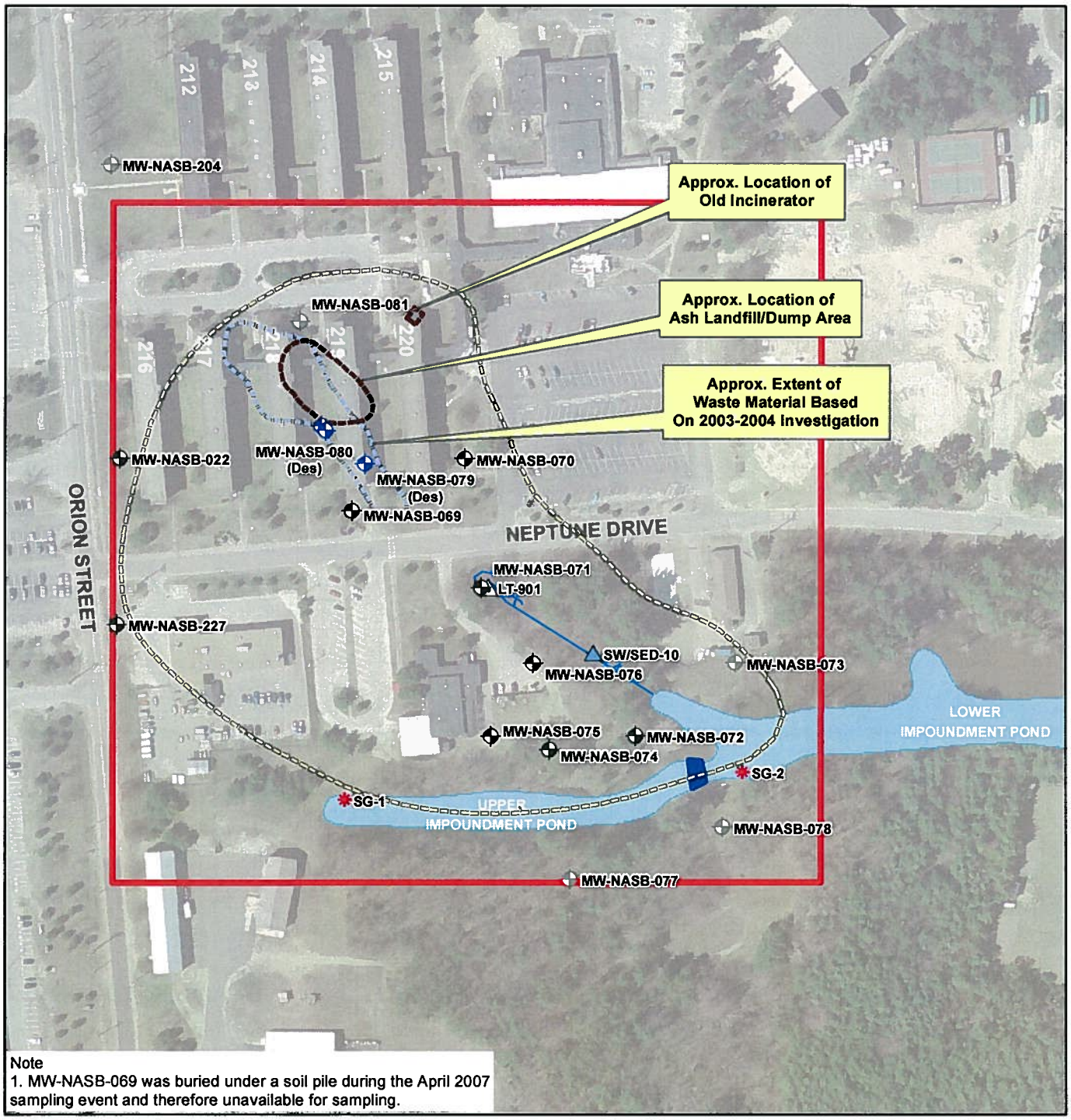
**Figure 1-1**

**Site Location Map**
**Site 9**

Naval Air Station
Brunswick, Maine

C:\NAVY_GIS\TO07_Brunswick\Site9\MapDocuments\April_2007\Site9_Fig1-1_SiteLocus.mxd

Feet
0 850 1,700 3,400

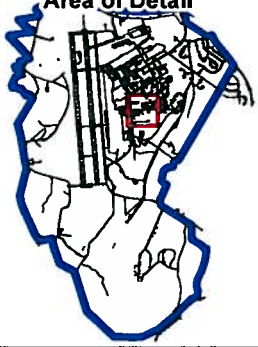



Note
1. MW-NASB-069 was buried under a soil pile during the April 2007 sampling event and therefore unavailable for sampling.

| | |
|---|---|
| Contract No. | N62472-02-D-0810 |
| Description | Site 9, NAS Brunswick, ME |
| Coordinate system | NAD 1983, UTM, Zone 19 N in meters |
| Sources | Naval Base Boundary provided by Navy. |

| Date | 09-AUG-2007 | Rev. | Date | App. By |
|---|---|---|---|---|
| DB | C. Guido | | | |
| CB | G. Calderone | | | |
| AB | | | | |

Area of Detail



**Legend**

- MW-NASB-075 — Monitoring Well (Sampled APR 07)
- MW-NASB-077 — Monitroing Well
- MW-NASB-021 — Destroyed by Removal Action
- SG-1 — Stream Gauge
- LT-901 — Leachate Seep Station
- SW/SED-10 — Surface Water/Sediment Station
- Approx. Boundary of Site 9
- Institutional Control Boundary
- Dam
- Impoundment Pond

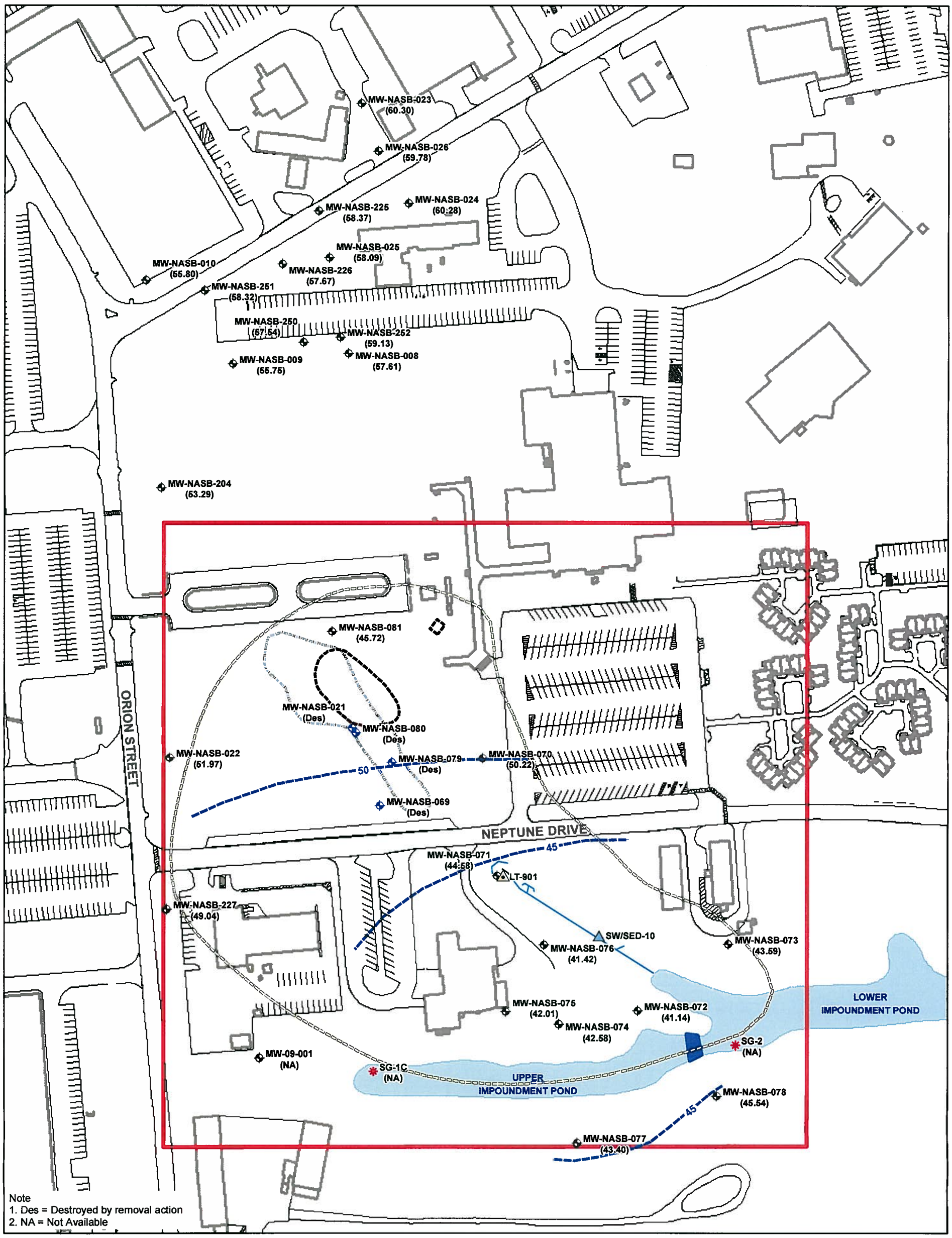
**Figure 1-2**

**Site Plan**
**Site 9**

Naval Air Station
Brunswick, Maine

C:\NAVY_GIS\TO07_Brunswick\Site9\MapDocuments\April_2007\Site9_Fig1-2_SitePlan.mxd

0 50 100 200 Feet

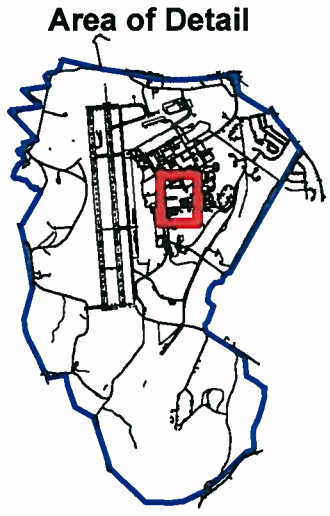



Note
1. Des = Destroyed by removal action
2. NA = Not Available

| | |
|---|---|
| **Contract No.** | 5700.007 |
| **Description** | NAS Brunswick, ME |
| **Coordinate system** | NAD 1983, UTM, Zone 19N in meters |
| **Sources** | Naval Base Boundary provided by Navy. |

| Date | 25-AUG-2008 | Rev. | Date | App. By |
|---|---|---|---|---|
| DB | C. Guido | | | |
| CB | G. Calderone | | | |
| AB | | | | |

**Area of Detail**



**Legend**

- MW-NASB-077 (43.40) — Monitroing Well (Groundwater Elevation, ft MSL)
- MW-NASB-021 (Des) — Destroyed by Removal Action (Groundwater Elevation, ft MSL)
- SG-1 (NA) — Stream Gauge (Groundwater Elevation, ft MSL)
- LT-901 — Leachate Seep Station
- SW/SED-10 — Surface Water/Sediment Station
- Inferred Groundwater Contour (ft MSL)
- Approx. Boundary of Site 9
- Dam
- Institutional Control Boundary
- Impoundment Pond

**Figure 1-3**

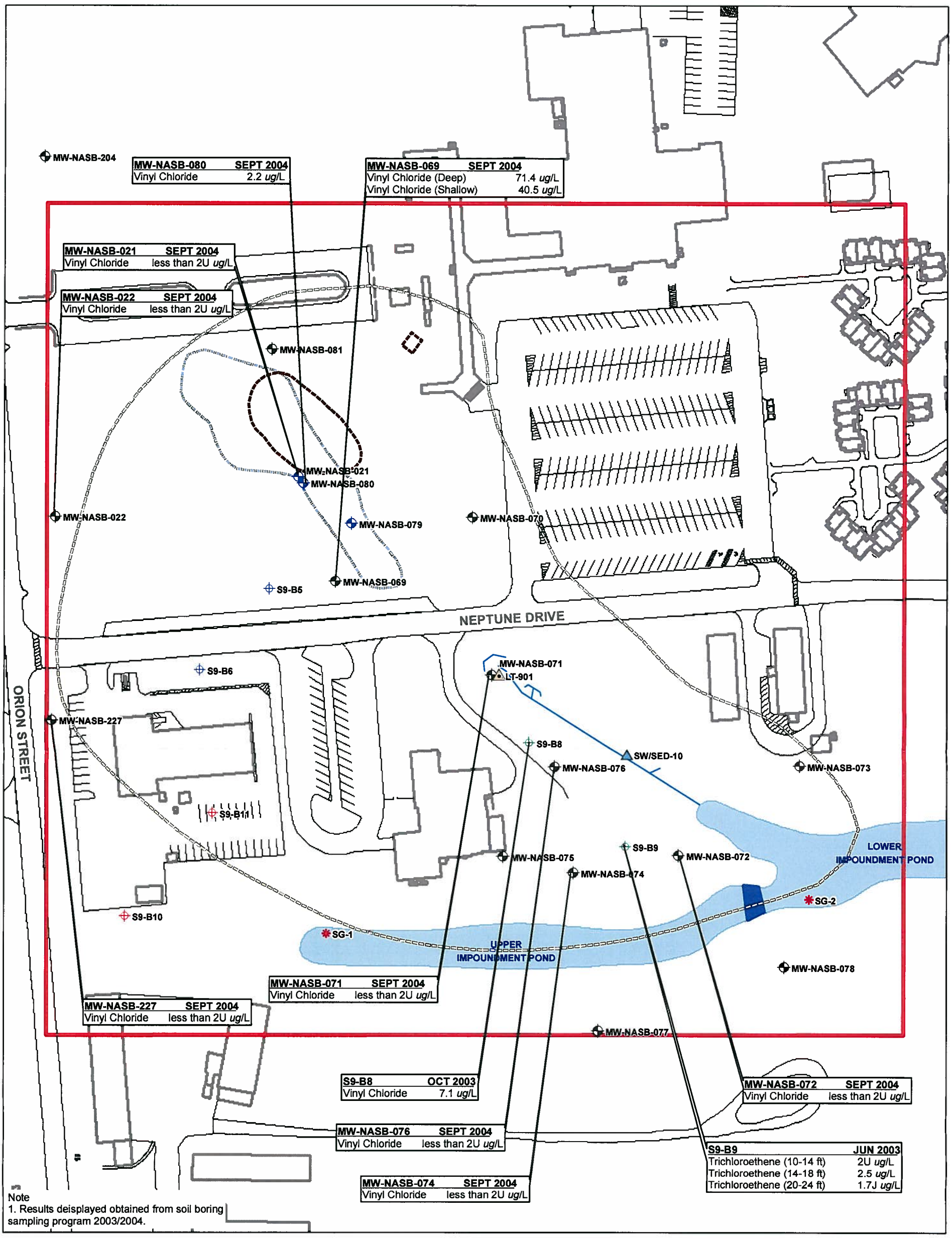
**Interpreted Groundwater Surface Contour Map April 2007**

Naval Air Station
Brunswick, Maine

C:\NAVY_GIS\TO07_Brunswick\Site9\MapDocuments\April_2007\Site9_Fig1-3_GWcontours_Apr07_11x17.mxd

0 50 100 200 Feet

N

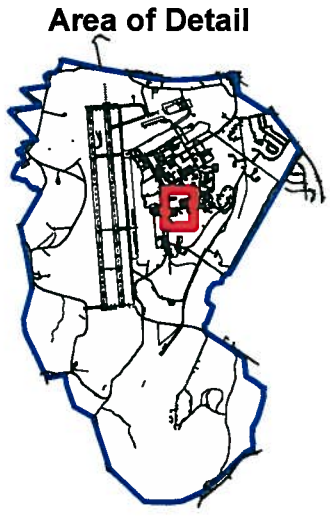



Note
1. Results deisplayed obtained from soil boring sampling program 2003/2004.

| | |
|---|---|
| **Contract No.** | 5700.007 |
| **Description** | NAS Brunswick, ME |
| **Coordinate system** | NAD 1983, UTM, Zone 19N in meters |
| **Sources** | Naval Base Boundary provided by Navy. |

| Date | 06-AUG-2007 | Rev. | Date | App. By |
|---|---|---|---|---|
| DB | C. Guido | | | |
| CB | G. Calderone | | | |
| AB | | | | |

**Area of Detail**



**Legend**

- MW-NASB-074 — Monitroing Well
- MW-NASB-021 — Destroyed by Removal Action
- SG-1 — Stream Gauge
- LT-901 — Leachate Seep Station
- SW/SED-10 — Surface Water/Sediment Station
- S9-B2 — Direct-Push Soil Boring (2003)
- S9-B8 — Temporary Micro Well (2003)
- S9-B10 — Electrical Conductivity Log (2004)
- Approx. Boundary of Site 9
- Institutional Control Boundary
- Dam
- Impoundment Pond

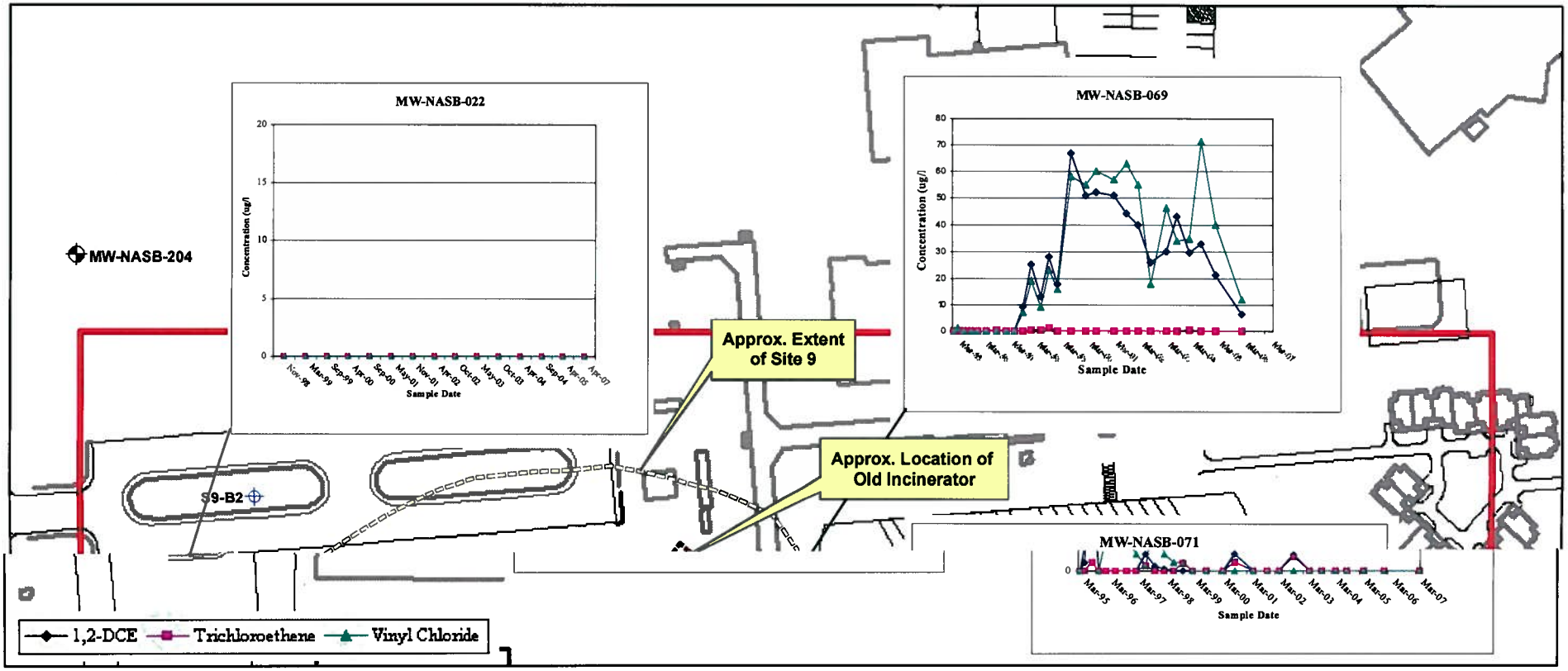
**Figure 2-1**

**Historical Trichloroethene and Vinyl Chloride Groundwater Detections**

Naval Air Station
Brunswick, Maine

C:\NAVY_GIS\TO07_Brunswick\Site9\MapDocuments\April_2007\Site9_Fig2-1_TCE&VCdetects_Apr07.mxd

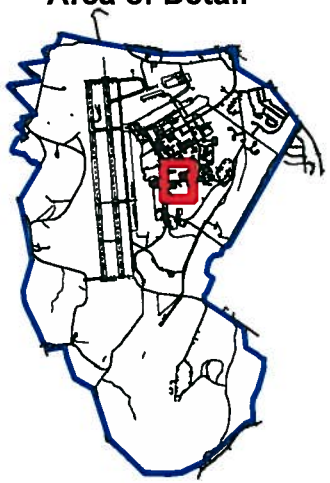
0 50 100 200 Feet




| | |
|---|---|
| **Contract No.** | 5700.007 |
| **Description** | NAS Brunswick, ME |
| **Coordinate system** | NAD 1983, UTM, Zone 19N in meters |
| **Sources** | Naval Base Boundary provided by Navy. |

| Date | 27-AUG-2008 | Rev. | Date | App. By |
|---|---|---|---|---|
| DB | C. Guido | | | |
| CB | M. Johanson | | | |
| AB | | | | |

## Area of Detail



## Legend

- MW-NASB-074 — Monitroing Well
- MW-NASB-021 — Destroyed by Removal Action
- SG-1 — Stream Gauge
- LT-901 — Leachate Seep Station
- SW/SED-10 — Surface Water/Sediment Station
- S9-B2 — Direct-Push Soil Boring (2003)
- S9-B8 — Temporary Micro Well (2003)
- S9-B10 — Electrical Conductivity Log (2004)
- Institutional Control Boundary
- Dam

## Figure 2-2

**Historical Groundwater Detection Trends**

Naval Air Station
Brunswick, Maine

C:\NAVY_GIS\TO07_Brunswick\Site9\MapDocuments\April_2007\Site9_Fig2-2_ChemTrends_Apr07_11x17.mxd

0 50 100 200 Feet

# APPENDIX A

Field Monitoring and Sampling Forms

02

4/17/~~06~~ 07 NASB 42°, Rain, windy

0800 ECC (David Comeau, Fred Santos, Geoff Cairnos, Mark Carver) on site at NASB Brunswick, ME. to start Semi-Annual April 2007 Sampling Activities.

Tail gate Safety Meeting

Prep equipment and Sample Jars

Review Sampling Locations and procedures.

1530 Helen Cavanagh, Jeff Donovan, Catherine Guido on site to assist with Sampling Activities.

— Prior to 4/17, Mark Carver has Completed
Site 07
Bld 95
Site 9 - Leachate Seep
- Surface Water
- Stream Sediment

Gauging @ Site 07, Bld 95, Site 9, Sites 1 & 3, Site 2, Eastern Plume.

4/18/07 NASB 40°, Rain, wind

0800 ECC (Mark Carver, Fred Santos, David Comeau, Geoff Cakines, Helen Cavanagh, Catherine Guido, Jeff Donovan) on site to continue Sampling Activities.

Tailgate Safety Meeting

Calibrate Sampling Equipment

Groundwater Samples Collected from Site 9:
MW-NASB-MW022
MW-NASB-MW070 FD=BN-9-30-MW-XD1 (metals) (DRO) MS/MSD
MW-NASB-MW071
MW-NASB-MW072
MW-NASB-MW074 FD=BN-9-30-MW-XD2 (DRO) MS/MSD
MW-NASB-MW075
MW-NASB-MW076
MW-NASB-MW227 FD=BN-9-30-MW-XD3 (PDB) MS/MSD

Groundwater Samples Collected from Site 2:
Dyers Gate Well

unable to sample MW-NASB-069 due to remedial action activities and large soil piles @ well location

Post Calibrate Sampling Equipment

4/19/07 NASB 52°, Partly Cloudy

0800 ECC on site to continue Sampling Activities

Tailgate Safety Meeting

Calibrate Sampling Equipment

Groundwater Samples Collected from Site 2:
MW103
MW104
MW242
MW243 FD=BN-2-15-MW-XD1 MS/MSD

unable to sample MW-241, SW-4, SW-2 LT-201 LT-202, LT-203 (Leachate Seeps & Sediment) due to very high water levels. will attempt next week.

Post Calibrate Sampling Equipment

4/20/07 NASB 55°, clear sky

0800 ECC on site to continue Sampling Activities.

Tailgate Safety Meeting

Calibrate Sampling Equipment

Groundwater Samples Collected from Eastern Plume:
EW-1
EW-4
MW-334
MW-323

Groundwater Samples Collected from Sites 1,3:
MW-1301D
MW-1301S
MW-1302D
MW-1302S
MW-1303AD
MW-1303AS

Post Calibrate Sampling Equipment

Accutest Lab Picked-up Samples

Performed Sites 1,3 Landfill Gas Monitoring

Placed PDB @ MW-334 Deep

98

4/23/07 NASB 60°, clear sky

0800 ECC (David Cameau, Geoff Cokinos, Jeff Donovan, Mark Carver, Catherine Guido, Helen Cavanagh) on Site to continue Sampling Activities

Tailgate Safety Meeting

Calibrate Sampling Equipment

- Ground Water Samples Collected from Eastern Plume:
  MW-209
  P-106 FD: BN-EP-30-MW-XD6 (VOC DUP)
  P-111
  EW-2A
- Surface Water Samples Collected from Eastern Plume:
  SW-10
  SW-11
  SW-13 FD: BN-EP-30-SW-XD1 MS/MSD
  SW-14
- Seep/SED Samples Collected from Eastern Plume:
  Seep 10
  Seep 11 FD: BN-EP-30-seep-XD1 MS/MSD
  Sed 11 FD: BN-EP-30-SED-XD1 MS/MSD
- Groundwater Samples Collected from Sites 1 & 3:
  MW-202A
  MW-203 FD: BN-1&3-30-MW-XD1 MS/MSD
  MW-204
  MW-218
  MW-219
  MW-240

Post Calibrate Sampling Equipment

4/24/07 NASB 57°, clear sky

0700 ECC on site to continue Sampling Activities.

Tailgate Safety Meeting

Calibrate Sampling Equipment

Groundwater Samples Collected from Eastern Plume:
* MW-315A = PDB Bag was Sampled 1 day early, 13 days in well.
MW-318
MW-335
MW-336
MW-337
MW-338A (PDB only)
MW-338B
MW-338C
MW-339 FD= BN-EP-30-MW-XD5
MW-1104
MW-229A
MW-313 FD= BN-EP-30-MW-XD3 MS/MSD
MW-333

Surface Water Samples Collected from Eastern Plume:
SW-12

Groundwater Samples Collected from Sites 1, 3:
MW-2101

Post Calibrate Samplins Equipment

Accutest Labs Picked-up Samples

98

4/25/07 NASB 44°, overcast

0800 ECC on site to continue sampling activities.

Tailgate Safety Meeting

Calibrate Sampling Equipment

Groundwater Samples Collected from Eastern Plume:

MW-332 FD = BN-EP-30-MW-XD4 MS/MSD
MW-212
MW-303
MW-308
MW-330
MW-331
MW-105A
MW-230A
MW-306
MW-205
MW-231A
MW-231B
EW-05A
MW-207AR
MW-224
MW-225A FD = BN-EP-30-MW-~~XD4~~ DC ~~XD2~~ DC -XD7
MW-305
MW-309B
MW-311 FD = BN-EP-30-MW-XD2 MS/MSD
MW-319
P-132

Continued to Page 99 →

4/25/07 NASB 44°, overcast

→ continued from Page 98.

Groundwater Samples Collected from Sites 1, 3:
MW-203 (1,4 Dioxane only, added)
MW-217B
MW-240 (ADDed 1,4 Dioxane)

Replaced Staff Gauge SG-2 @ Site 09.
NEEDS to BE Surveyed.
SG-2 = 1.37'
SG-1C = 3.00'

Post Calibrate Sampling Equipment

4/26/07 NASB 48°, clear sky

0800 ECC on site to Continue Sampling Activities.

Tailgate Safety Meeting

Calibrate Sampling Equipment

- Leachate Seep / Leachate Sediment Collected from Site 2
  LT-201
  LT-202
  LT-203 FD = BN-2-15-LT-XD1 MS/MSD
  Refer to Sites 1,3 for SW-4, SW-7 (Same Location).
- Leachate Seep Collected from Sites 1,3:
  Seep 1
  Seep 3
  Seep 4
  Seep 5
  Seep 9 FD = BN-1,3-30-seep-XD1 MS/MSD
  No Sample Collected @ Seep 2 (Dry)
- Leachate Sediment Collected from Sites 1,3:
  LT-1
  LT-3
  LT-4
  LT-5
  LT-9 FD = BN-1,3-30-LT-XD1 MS/MSD
- Surface water Collected from Sites 1,3:
  SW-4 FD = BN-1,3-30-SW-XD1 MS/MSD
  SW-7

Continued to Page 101 →

4/26/07 NASB 48°, clear sky

→ continued from Page 100.

SW-8
SW-9 = Due to high water levels, sample was collected 6' from Station Marker.
SW-15
SW-16

- Groundwater Samples Collected from Site 2:
MW-241

- Groundwater Samples Collected from Eastern Plume:
MW-338A
E.P. Raw Influent
Comb Effluent FD = BN-EP-30-Effluent-XD1 MS/MSD

Post Calibrate Sampling Equipment

~~Receive Labs Picked-up Samples~~ DC

102

4/27/07 NASB 51°, Rain

0800 ECL (David Comeau, Geoff Cakinos, Jeff Donovan, Catherine Guido, Helen Cavanagh) on site to Complete Sampling Activities.

Tailgate Safety Meeting

Rinsate Blank Collected from "non-dedicated "Floating" Gravel for Pump = BN-EP-30-MW-051.

Leachate Sediment Sample Collected from Sites 1 & 3:
LT-2

This Completes Sampling Event. All Purge water generated Disposed of and Treated @ on site Treatment facility. Bld 50.

Samples not collected, waiting for PDB to reach Sample date. Late PDB Placement.
- MW-209 PDB only (5/2/07)
- MW-334 PDB only (5/4/07)
- MW-216A PDB, Low Flow ~~VOC~~ metals (5/2/07)

will complete when PDB is ready.

Accutest Labs Picked-up Samples.

# CHAIN OF CUSTODY

Job #:

Control #:

**Client Information**

ame Environmental Chemical Corporation

ddress 33 Boston Post Road West Suite 340

ity Marlborough, MA State 01752 Zip

end Report to: Jackson Kiker

hone #: 508-229-2270

**Facility Information**

Project Name: SITE 9

Location: NASB Brunswick, Maine

Project No.: 5700.007

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 | TAL METALS | SVOC | DRO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3N-9-30-QT1 | 4/18/07 | 0900 | DC | TB | 2 | X | | | | | X | | | |
| 3N-9-30-MW22 | 4/18/07 | 1330 | MC/HC | GW | 2 | X | | | | | X | | | |
| 3N-9-30-MW70 ms/msd | 4/18/07 | 1410 | JD | GW | 9 | | | X | | X | | X | X | |
| 3N-9-30-MW-XD1 | 4/18/07 | 00:00 | | GW | 3 | | | X | | X | | X | X | |
| 3N-9-30-MW71 | 4/18/07 | 1020 | JD | GW | 2 | X | | | | | X | | | |
| 3N-9-30-MW71 | 4/18/07 | 1135 | JD | GW | 3 | | | X | | X | | X | X | |
| 3N-9-30-MW72 | 4/18/07 | 1015 | MC | GW | 2 | X | | | | | X | | | |
| 3N-9-30-MW74 | 4/18/07 | 1000 | CG | GW | 2 | X | | | | | X | | | |
| 3N-9-30-MW74 ms/msd | 4/18/07 | 1315 | CG | GW | 6 | X | | | | | | | | X |
| 3N-9-30-MW-XD2 | 4/18/07 | 00:00 | | GW | 2 | X | | | | | | | | X |
| 3N-9-30-MW75 | 4/18/07 | 1002 | HC | GW | 2 | X | | | | | X | | | |
| 3N-9-30-MW75 | 4/18/07 | 1220 | HC | GW | 2 | 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 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 | 4/20/07 1300 | 1 | 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 | | | |

# CHAIN OF CUSTODY

Job #:

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: SITE 9

Location: NASB Brunswick, Maine

Project No.: 5700.007

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 | TAL METALS | SVOC | DRO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW76 | 4/18/07 | 1135 | MC | GW | 2 | X | | | | | X | | | |
| BN-9-30-MW76 | 4/18/07 | 1237 | MC | GW | 2 | X | | | | | | | | X |
| BN-9-30-MW227 ms/msd | 4/18/07 | 1301 | HC | GW | 5 | X | | | | | X | | | |
| BN-9-30-MW-XD3 | 4/18/07 | 00:00 | | GW | 2 | X | | | | | X | | | |

**Turnaround Information**

- [ ] 21 Day Standard
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

Approved By:

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 2 OF 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 | 4/20/07 1300 | 1 | 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 | | ☐ | ☐ |

# FIELD RECORD OF WELL GAUGING

| | | | |
|---|---|---|---|
| Project Name: | NASB, ME LTM Site 9 | Gauge Date: | 4/3/2007 |
| Project Number: | 5700.007.015.440 | Slope Indicator | Gauge Time: 0900-1530 |
| ECC Personnel: | MAC | interface probe | |

| Well Identification Number | Well Lock Status | Stick Up or F.M. | Well Physical Condition | PVC Casing Elevation (ft) | Well Diameter (inches) | Total Depth of Well (ft) | Installed Depth of Well (ft) | Depth to Water (ft) | Depth to to Liquid (ft) | Water Table Elevation (ft) | Dedicated Pump X = In Well O = In Plant |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Site 9** | | | | | | | | | | | |
| MW-NASB-069 | NA | FM | Good | | 2 | NA | 42.42 | NA | ND | | O |
| MW-NASB-070 | NA | FM | Good | 58.26 | 2 | 24.53 | 27.32 | 8.04 | ND | 50.22 | O |
| MW-NASB-071 | Good | Stick Up | Good | 46.25 | 2 | NA | 21.54 | 1.67 | ND | 44.58 | O |
| MW-NASB-072 | Good | Stick Up | Good | 49.81 | 2 | 14.88 | 14.63 | 8.67 | ND | 41.14 | O |
| MW-NASB-073 | Good | Stick Up | Good | 51.71 | 2 | 32.49 | 32.12 | 8.12 | ND | 43.59 | O |
| MW-NASB-074 | Good | Stick Up | Good | 51.68 | 2 | 27.46 | 27.12 | 9.10 | ND | 42.58 | O |
| MW-NASB-075 | Good | Stick Up | Good | 54.91 | 2 | 21.55 | 21.22 | 12.90 | ND | 42.01 | O |
| MW-NASB-076 | Good | Stick Up | Good | 52.79 | 2 | 20.30 | 19.94 | 10.77 | ND | 42.02 | O |
| MW-NASB-077 | Good | Stick Up | Good | 58.89 | 2 | 37.32 | 37.29 | 15.49 | ND | 43.40 | O |
| MW-NASB-078 | Good | Stick Up | Good | 53.74 | 2 | Pump | 14.93 | 8.20 | ND | 45.54 | X |
| MW-NASB-081 | Good | Stick Up | Good | 58.22 | 2 | 15.21 | 18.85 | 12.50 | ND | 45.72 | O |
| MW-NASB-022 | NA | FM | Good | 59.52 | 2 | 16.12 | 17.97 | 7.55 | ND | 51.97 | O |
| MW-NASB-204 | Good | Stick Up | Good | 62.09 | 2 | 17.50 | 17.93 | 8.80 | ND | 53.29 | X |
| MW-NASB-227 | Good | Stick Up | Good | 58.39 | 2 | 40.11 | 40.60 | 9.35 | ND | 49.04 | O |
| SG-1C | NA | NA | Good | | NA | NA | NA | 2.84 | NA | | NA |
| SG-2 | NA | NA | Good | | NA | NA | NA | NA | NA | | NA |
| **NEX** | | | | | | | | | | | |
| MW-NASB-008 | Good | F.M. | Good | 59.22 | 2 | 13.25 | | 1.61 | ND | 57.61 | No |
| MW-NASB-009 | Good | F.M. | Good | 59.00 | 2 | 11.33 | | 3.25 | ND | 55.75 | No |
| MW-NASB-010 | Good | F.M. | Good | 62.03 | 2 | NA | | 6.23 | ND | 55.80 | No |
| MW-NASB-023 | Good | F.M. | Good | 67.29 | 2 | 19.74 | | 6.99 | ND | 60.30 | No |
| MW-NASB-024 | Good | F.M. | Good | 65.31 | 4 | 13.21 | | 5.03 | ND | 60.28 | No |
| MW-NASB-025 | Good | F.M. | Good | 64.34 | 4 | 14.7 | | 6.25 | ND | 58.09 | No |
| MW-NASB-026 | Good | F.M. | Good | 66.61 | 2 | 9.47 | | 6.83 | ND | 59.78 | No |
| MW-NASB-225 | Good | F.M. | Good | 64.61 | 2 | 14.50 | | 6.24 | ND | 58.37 | No |
| MW-NASB-226 | Good | F.M. | Good | 62.22 | 2 | 12.57 | | 4.55 | ND | 57.67 | No |
| MW-NASB-250 | Good | F.M. | Good | | 1 | 10.25 | | 2.67 | ND | | No |
| MW-NASB-251 | Good | F.M. | Good | 62.39 | 1 | 7.04 | | 4.07 | ND | 58.32 | No |
| MW-NASB-252 | Good | F.M. | Good | 59.86 | 1 | 12.08 | | 1.41 | ND | 58.45 | No |
| MW-DP-1 | NA | F.M. | Good | | 1 | 14.95 | | 7.22 | ND | | No |
| MW-DP-2 | NA | F.M. | Good | | 1 | 14.76 | | 7.12 | ND | | No |
| MW-DP-3 | NA | F.M. | Good | | 1 | 14.72 | | 7.21 | ND | | No |
| MW-DP-9 | NA | F.M. | Good | | 1 | 14.90 | | 6.85 | ND | | No |
| MW-DP-13 | NA | F.M. | Good | | 1 | 14.81 | | 7.15 | ND | | No |
| MW-DP-15 | NA | F.M. | Good | | 1 | 14.50 | | 7.08 | ND | | No |
| MW-DP-19 | NA | F.M. | Good | | 1 | 2.17 | | DRY | ND | | No |
| MW-B27-DP-2 | NA | F.M. | Good | | 1 | 8.78 | | 3.48 | ND | | No |
| MW-B27-DP-4 | NA | F.M. | Good | | 1 | 7.75 | | 2.75 | ND | | No |

**Comments:** No product detected in any wells. SG-2 knocked down by ice, needs to be remounted and surveyed.
MW-NASB-022 gauged 4/3/07. TOC elevation is 12.10" below asphalt grade (last survey elevation was to asphalt grade).

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-22

**Date:** 4/18/07
**Sampler:** MAC/HC
**PID Reading:** —

**Well Construction:** 2" PVC FM
**Depth to water:** 6.35'
**Well Depth:** 16.39'
**Water Column:** 10.04'

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650MDS | 05H2355AC |
| YSI | 600 | 02B0815AE |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm^c | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 1335 | 5.07 | 4.86 | 757 | 16.81 | 312.7 |
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**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 1330 | BN-9-30-MW22 | 40ML | 2 | HCL | VOC |
| | | | | | |
| | | | | | |
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| | | | | | |

**Comments**

DO reading questionable

Mark A. Co

Signature

4/18/07

Date

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

**Project:** Site 9 **Date:** 4/18/07

**Location:** NASB, Brunswick, ME **Sampler:** David Comeau

**Well ID:** MW-NASB-069 **PID Reading:** _____

**Start Time:** _____ **End Time:** _____

**Well Construction:** _____

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
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| **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 |
|---|---|---|---|---|---|
| | | | | | |
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**Comments**

unable to locate well due to remedial action activities and large soil piles @ well location.

D Comeau
**Signature**

4/18/07
**Date**

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

**Project:** SITE 9 NASB
**Date:** 4-18-07
**Location:** NASB, Brunswick, ME
**Sampler:** J. DONOVAN
**Well ID:** ~~BN-9-30-MW70 2D~~ MW-NASB-MW070
**PID Reading:** NM
**Start Time:** 1313 **End Time:** 1410
**Well Construction:** 2" PVC
**Depth to water:** 6.47
**Well Depth:** 24.55
**Water Column:** 18.08
**Total Volume Removed (L)** 19.5

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 600XL-D.O | 06J+871 AB |
| YSI | 650 MDS | ~~JK05629~~ 04J15158AC |
| LAMOTTE | 2020 TURBIDIMETER | 2568-1701 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1313 | 3.0 | 300 | 6.53 | 8.82 | 6.08 | 174 | 0.2 | 93.6 | 36 | CLEAR |
| 1323 | 3.0 | 300 | 6.83 | 9.84 | 5.86 | 182 | 0.2 | 130.4 | 7.0 | " |
| 1333 | 3.0 | 300 | 6.84 | 10.05 | 5.92 | 189 | 0.16 | 148.5 | 3.1 | " |
| 1343 | 3.0 | 300 | 6.85 | 10.09 | 5.91 | 192 | 0.12 | 162.5 | 1.7 | " |
| 1353 | 3.0 | 300 | 6.85 | 10.18 | 5.92 | 191 | 0.08 | 174.2 | 2.1 | " |
| 1358 | 1.5 | 300 | 6.84 | 10.22 | 5.92 | 189 | 0.06 | 176.1 | 2.3 | " |
| 1403 | 1.5 | 300 | 6.85 | 10.28 | 5.92 | 188 | 0.07 | 177.4 | 2.1 | " |
| 1408 | 1.5 | 300 | 6.85 | 10.26 | 5.93 | 188 | 0.06 | 175.1 | 2.1 | " |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| **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 |
|---|---|---|---|---|---|
| 1410 | BN-9-30-MW70 | 500 ml POLY | 1 | $HNO_3$ | METALS |
| 1410 | BN-9-30-MW70 | 1 LITER AMBER | 2 | NONE | SVOC |
| 1410 | BN-9-30-MW70D1 | 500 ml POLY | 1 | $HNO_3$ | METALS |
| 1410 | BN-9-30-MW70D1 | 1 LITER AMBER | 2 | NONE | SVOC |
| 1410 | BN-9-30-MW70-MS MSD | 500 ml POLY | 2 | $HNO_3$ | METALS |
| 1410 | BN-9-30-MW70-MS MSD | ~~500 ml POLY~~ | ~~2~~ | ~~NONE~~ | |
| | | 1 LITER AMBER | 2 | NONE | SVOC |

**Comments**

DUPLICATE COLL.
MS MSD COLL.

Signature

4-18-07
Date

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** SITE 9 NASB
**Location:** NASB, Brunswick, ME
**Well ID:** ~~BN-9-30-MW71~~ MW-NASB-MW071
**Well Construction:** 2" PVC
**Depth to water:** 0.78
**Well Depth:** 21.58
**Water Column:** 20.8

**Date:** 4-18-07
**Sampler:** J. DONOVAN
**PID Reading:** N/A

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 600XL-B-0 | 06J1871 AB |
| HANNA INSTR | MODEL 650 | MDS 05629 |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm[c] | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 1035 | 11.87 | 7.04 | 2.81 | 0.67 | -96.4 |
| | | | | | |
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**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 1020 | BN-9-30-MW71 | 40 ML VOA | 2 | HCL | VOC |
| | | | | | |
| | | | | | |
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**Comments**

WELL DEPTH - DEPTH TO WATER MEAS, TO BLACK MARK TOP PVC

Jeff Donovan
Signature

4-18-07
Date

4

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

**Project:** SITE 9 (BMAS)
**Location:** NASB, Brunswick, ME
**Well ID:** ~~BN-9-30-MW071~~ MW-NASB-MW071
**Start Time:** 1046 **End Time:** 1132
**Well Construction:** 2" PVC
**Depth to water:** 0.78
**Well Depth:** 21.58
**Water Column:** 20.8
**Total Volume Removed (L)** 22

**Date:** 4-18-07
**Sampler:** J. DONOVAN
**PID Reading:** NM

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 600XL-RO | 06J1871 AB |
| " | 650 MDS | ~~12562~~ 04515158AC |
| LAMOTTE 2020 TURBIDIMETER | | 2568-1701 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1046 | 4.0 | 400 | 0.78 | 10.24 | 6.62 | 253 | 0.2 | -32.4 | 200 | REDISH BROWN |
| 1056 | 4.0 | 400 | 1.5 | 11.52 | 6.47 | 230 | 0.06 | -30.6 | 25 | CLEAR |
| 1106 | 4.0 | 400 | ~~1.51~~ 1.21 | 11.64 | 6.40 | 216 | 0.01 | -26.4 | 9.4 | clear |
| 1116 | 4.0 | 400 | 1.25 | 11.75 | 6.37 | ~~214~~ | 0.00 | -25.1 | 5.6 | CLEAR |
| 1122 | 2.0 | 400 | 1.24 | 11.85 | 6.35 | 214 | -0.01 | -25.2 | 3.3 | " |
| 1127 | 2.0 | 400 | 1.25 | 11.83 | 6.34 | 212 | -0.01 | -22.7 | 3.2 | " |
| 1132 | 2.0 | 400 | 1.25 | 11.86 | 6.34 | 211 | -0.01 | -22.8 | 4.5 | " |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| **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 |
|---|---|---|---|---|---|
| 1135 | BN-9-30-MW71 | 500 ML POLY | 1 | $HNO_3$ | METALS |
| 1135 | BN-9-30-MW71 | 1 LITER AMBER | 2 | NONE | SVOC |
| | | | | | |
| | | | | | |
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**Comments**

400 ML/MIN FLOW RATE LOWEST ACHIEVABLE. SPEED CONTROL ON CONTROL BUT TURNED DOWN TO LOWEST POSSIBLE RATE (25.0 HZ).

Signature

4-18-07
Date

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-072

**Date:** 4/18/07
**Sampler:** MAC
**PID Reading:** —

**Well Construction:** 2" PVC
**Depth to water:** 7.91
**Well Depth:** 14.66
**Water Column:** 6.75'

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 05H2355AC |
| YSI | 600 XLM | 02B0815AE |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm[c] | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 1032 | 4.75 | 6.66 | 78 | 8.65 | 177.0 |
| | | | | | |
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**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 1015 | BN-9-30-MW-72 | 40ML | 2 | HCL | VOC |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

**Comments**

Mark A. Co
Signature

4/18/07
Date

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-074

**Date:** 4/18/07
**Sampler:** CG
**PID Reading:** 0.0

**Well Construction:** 2" PVC
**Depth to water:** 8.32
**Well Depth:** 27.16
**Water Column:** 18.84

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 1954 |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm[c] | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 10:10 | 10.67 | 6.60 | .378 | 0.18 | 92.7 |
| | | | | | |
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**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 10:00 | BN-9-30-MW74 | 40ml | 2 | HCl | PDB VOC |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Comments**

Catherine C Gill
Signature

4/18/07
Date

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

1 of 2

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-074

**Date:** 4/18/07
**Sampler:** CG
**PID Reading:** 0.0

**Start Time:** 1100 **End Time:** 1320
**Well Construction:** 2" PVC
**Depth to water:** 8.32
**Well Depth:** 27.16
**Water Column:** 18.84
**Total Volume Removed (L)** 285

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 1954 |
| LaMotte | 2020 Turbidimeter | 3146-1602 |
| Rediflo | controller | 4632 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 11:05 | 3.5 | 700 | 9.51 | 11.19 | 6.93 | 352 | .31 | 14.5 | 803 | orange |
| 11:20 | 3 | 200 | 8.5 | 9.80 | 6.69 | 352 | 1.49 | 25.4 | 701 | orange |
| 11:30 | 2 | 200 | 8.5 | 10.68 | 6.55 | 344 | .66 | 30.7 | 418 | orange |
| 11:40 | 2 | 200 | 8.5 | 11.51 | 6.60 | 348 | .47 | 25.1 | 209 | orange |
| 11:50 | 2 | 200 | 8.49 | 11.76 | 6.59 | 350 | .40 | 23.1 | 135 | brown |
| 12:00 | 2 | 200 | 8.48 | 12.03 | 6.58 | 351 | .36 | 20.5 | 89 | brown |
| 12:10 | 2 | 200 | 8.48 | 12.18 | 6.56 | 350 | .34 | 18.3 | 59 | brown |
| 12:20 | 2 | 200 | 8.48 | 12.42 | 6.55 | 350 | .29 | 15.4 | 38 | cloudy |
| 12:30 | 2 | 200 | 8.47 | 12.43 | 6.53 | 348 | .31 | 13.1 | 27 | cloudy |
| 12:40 | 2 | 200 | 8.45 | 11.97 | 6.51 | 347 | .34 | 12.1 | 23 | cloudy |
| 12:50 | 2 | 200 | 8.45 | 12.34 | 6.49 | 347 | .33 | 10.2 | 20 | cloudy |
| 13:00 | 2 | 200 | 8.45 | 12.59 | 6.50 | 347 | .29 | 7.3 | 17 | 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 |
|---|---|---|---|---|---|
| 1315 | BN-9-30-MW74 | 1L Amber | 2 | HCl | DRO |
| ~~1315~~ 1100 | BN-9-30-MW-XD2 | 1L Amber | 2 | HCl | DRO (DUP) |
| 1315 | BN-9-30-MW74-MS/MSD | 1L Amber | 4 | HCl | DRO (MS/MSD) |
| | | | | | |
| | | | | | |
| | | | | | |

**Comments**

Stopped pump temporarily (between 11:05 & 11:20) to make equipment adjustments.

Catherine C Gilio
**Signature**

4/18/07
**Date**

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-074

**Date:** 4/18/07
**Sampler:** CG
**PID Reading:** 0.0

**Start Time:** 1100 **End Time:** 1320
**Well Construction:** 2" PVC
**Depth to water:** 8.32
**Well Depth:** 27.16
**Water Column:** 18.84
**Total Volume Removed (L)** 28.5

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 1954 |
| Lamotte | 2020 Turbidimeter | 3146-1602 |
| RediFlo | Controller | 4632 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 13:10 | 2 | 200 | 8.45 | 12.38 | 6.49 | 345 | .31 | 6.3 | 14 | clear |
| | | | | | | | | | | |
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| **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 |
|---|---|---|---|---|---|
| 1315 | BN-9-30-MW74 | 1L Amber | 2 | HCl | DRO |
| 10:00 ~~1315~~ | BN-9-30-MW-XD2 | 1L amber | 2 | HCl | DRO (DUP) |
| 1315 | BN-9-30-MW74-MS/MSD | 1L amber | 4 | HCl | DRO (MS/MSD) |
| | | | | | |
| | | | | | |
| | | | | | |

**Comments**
Stopped pump temporarily (between 10:05 & 11:20) to make equipment adjustments.

Cathleen C Gilb
**Signature**

4/18/07
**Date**

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-NASB-MW075

**Date:** 4/18/07
**Sampler:** Helen Cavanagh
**PID Reading:** 0

**Well Construction:** 2" PVC
**Depth to water:** 11.45'
**Well Depth:** 21.51'
**Water Column:** 10.06'

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 06D2528 AF |
| YSI | 600 XL | 06F2353 AB |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm$^c$ | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 10:15 | 8.77 | 6.86 | 82 | 8.72 | 86.8 |
| | | | | | |
| | | | | | |
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**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 10:02 | BN-9-30-MW75 | 40 mL vial | 2 | HCl | VOC |
| | | | | | |
| | | | | | |
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**Comments**

Helen Cavanagh
Signature

4/18/07
Date

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-NASB-MW075

**Date:** 4/18/07
**Sampler:** Helen Cavanagh
**PID Reading:** 0

**Start Time:** 11:20 **End Time:** 12:30
**Well Construction:** 2" PVC
**Depth to water:** 11.45'
**Well Depth:** 21.51'
**Water Column:** 10.06'
**Total Volume Removed (L)** 10.75

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 600XL | 06F2353AD |
| YSI | 650 MDS | 06D2528AF |
| Redi-flo | Controller | 4740 |
| LaMotte | 2020 | 3287-2202 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 11:30 | 2.0 | 200 | 11.46 | 9.13 | 6.00 | 80 | 9.17 | 86.9 | 1.30 | clear |
| 11:40 | 2.0 | 200 | 11.46 | 9.21 | 5.89 | 81 | 9.15 | 89.9 | 1.09 | clear |
| 11:50 | 2.25 | 225 | 11.51 | 10.89 | 5.78 | 88 | 8.87 | 97.0 | 0.90 | clear |
| 11:55 | 1.125 | 225 | 11.52 | 10.55 | 5.78 | 89 | 8.76 | 97.0 | 0.80 | clear |
| 12:00 | 1.125 | 225 | 11.52 | 10.32 | 5.79 | 90 | 8.72 | 98.3 | 0.80 | clear |
| 12:05 | 1.125 | 225 | 11.52 | 10.50 | 5.77 | 91 | 8.76 | 102.1 | 0.72 | clear |
| 12:10 | 1.125 | 225 | 11.52 | 10.40 | 5.79 | 95 | 8.78 | 102.7 | 0.69 | clear |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| **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 |
|---|---|---|---|---|---|
| 12:20 | BN-9-30-MW75 | 1 Liter amber | 2 | HCl | DRO |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Comments**

Helen Cavanagh
Signature

4/18/07
Date

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-076

**Date:** 4/18/07
**Sampler:** MAC
**PID Reading:** —

**Well Construction:** 2" PVC
**Depth to water:** 9.75
**Well Depth:** 20.00
**Water Column:** 10.23

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 05H2355AC |
| YSI | 600-XL-B-M | 02B0815 AE |
| Lamotte | 2020 | 2498-1501 |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm^c | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 1145 | 5.44 | 6.27 | 589 | 11.81 | 223.8 |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 1135 | BN-9-30-MW76 | 40ML | 2 | HCL | VOC |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Comments**

Mark A. Co
Signature

4/18/07
Date

# Environmental Chemical Corporation

## Low Flow/Low Stress Groundwater Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-076

**Date:** 4/18/07
**Sampler:** MAC
**PID Reading:** —

**Start Time:** 1200 **End Time:** 1237
**Well Construction:** 2" PVC
**Depth to water:** 9.77
**Well Depth:** 20.00
**Water Column:** 10.23
**Total Volume Removed (L)** 8.9

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650 MDS | 05H2355AC |
| YSI | 600-XL-B-M | 02B0815AE |
| Lamotte | 2020 | 2498-1501 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 1200 | 0.0 | 200 | 9.77 | 5.14 | 6.18 | 660 | 13.26 | 205.2 | 2.99 |
| 1210 | 2.0 | 200 | 9.80 | 5.26 | 6.10 | 703 | 13.80 | 195.1 | 1 |
| 1220 | 5.0 | 300 | 9.88 | 6.03 | 6.02 | 674 | 13.72 | 188.2 | 1 |
| 1230 | 8.0 | 300 | 9.88 | 6.55 | 5.99 | 652 | 14.09 | 188.4 | <1 |
| 1235 | 8.9 | 300 | 9.88 | 6.62 | 5.97 | 661 | 14.80 | 188.7 | <1 |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| **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 |
|---|---|---|---|---|---|
| 1237 | BN-9-30-MW76 | 1L Amber | 2 | HCL | DRO |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Comments**
1210 ↑ pump speed to 300 - flow stopped temporarily

Mark A. C
**Signature**

4/18/07
**Date**

# Environmental Chemical Corporation

## Aqueous Diffusion Sampling Log

**Project:** Site 9
**Location:** NASB, Brunswick, ME
**Well ID:** MW-NASB-227

**Date:** 4/18/07
**Sampler:** Helen Cavanagh
**PID Reading:** 0

**Well Construction:** 2" PVC
**Depth to water:** 8.43'
**Well Depth:** 40.52'
**Water Column:** 32.09'

**Field Testing Equipment**

| Make | Model | Serial # |
|---|---|---|
| YSI | 650MDS | 06D2528 AF |
| YSI | 600XL | 06FZ353 AB |

| Time | Temp (celsius) | pH (STD) | SPC uS/cm$^{c}$ | DO (mg/L) | ORP (mV) |
|---|---|---|---|---|---|
| 13:17 | 12.47 | 6.38 | 314 | 0.22 | 6.5 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**Sample Collection**

| Time | Sample ID | Container | # of Bottles | Preservative | Analyses |
|---|---|---|---|---|---|
| 13:01 | BN-9-30-MW227 | 40 mL vial | 2 | HCl | VOC |
| 13:01 | BN-9-30-MW227-MS/MSD | | 3 | HCl | VOC |
| | | | | | |
| 00:00 | BN-9-30-MW-XD3 | 40 mL vial | 2 | HC | VOC |
| | | | | | |
| | | | | | |

**Comments**

- Only able to fill 1 out of 2 40 mL vials for MSD due to lack of water

Helen Cavanagh
Signature

4/18/07
Date

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB Site 9 **Date** 19 April 2007 **Weather** 50's partly Cloudy

**Calibrated By** Jeff Donovan **Instrument** YSI 650MPS / YSI 600XL **Serial Number** 04515158AC / 06J1871AB

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 1.413 | 1.397 | 18.58 | |
| pH (7) | 7.08 | 7.02 | 18.99 | |
| pH (4) | 4.00 | 4.01 | 18.76 | |
| pH (10) | 10.00 | 9.98 | 19.11 | |
| ORP | 240 | 243.3 | 19.08 | |
| Dissolved Oxygen | 99.5 | 99.6 | 19.02 | |
| Barometric Pressure | 755.9 | 757.5 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB Site 9 **Date** 18 April 2007 **Weather** 40's overcast

**Calibrated By** Geoff Cokinos **Instrument** YSI 650 MDS, YSI 600XLM **Serial Number** 05H2355AC, 02B0815AE

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 1.413 | 1.417 | 9.00 | |
| pH (7) | 7.00 | 6.99 | 9.61 | |
| pH (4) | 4.00 | 4.02 | 10.36 | |
| pH (10) | 10.00 | 9.98 | 10.18 | |
| ORP | 240 | 241.3 | 17.65 | |
| Dissolved Oxygen | 100 % | 98.9% | 12.62 | |
| Barometric Pressure | 744.6 | 744.6 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** ~~Site 2 (BWAS)~~ Site 9 **Date** 18 April 2007 **Weather** 40s OVERCAST

**Calibrated By** Geoff Cokinos **Instrument** 650 MDS 600 x1 **Serial Number** 01E0549AB 04516000AE

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 1.413 | 1.420 | 9.55 | |
| pH (7) | 7.00 | 7.03 | 10.33 | |
| pH (4) | 4.00 | 3.94 | 10.55 | |
| pH (10) | 10.00 | 9.89 | 10.50 | |
| ORP | 240 | 232.4 | 11.43 | |
| Dissolved Oxygen | 99.0% | 92.1% | 15.84 | |
| Barometric Pressure | 746.6 | 755.8 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** Site 9 **Date** 18 April 2007 **Weather** 40s OVERCAST

**Calibrated By** Geoff Cokinos **Instrument** YSI 650MDS ~~YSI 600XL~~ **Serial Number** 06D2528AF 06F2353AB

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 1.413 | 1.428 | 8.22 | |
| pH (7) | 7.00 | 6.98 | 8.72 | |
| pH (4) | 4.00 | 4.02 | 9.22 | |
| pH (10) | 10.00 | 9.96 | 10.12 | |
| ORP | 240 | 230.1 | 11.43 | |
| Dissolved Oxygen | 99.8% | 98.4% | 13.30 | |
| Barometric Pressure | 747.8 | 747.8 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB **Calibrated By** Geoff Cokinos

| Instrument/Serial Number | Pre-cal 0 (NTU) | Pre-cal 10 (NTU) | Post-cal 0 (NTU) | Post-cal 10 (NTU) | Date |
|---|---|---|---|---|---|
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.2 | 10.1 | 18 April 07 |
| Lamotte Turbidimeter 3287-2202 | 0 | 10 | 0 | 9.8 | " " |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0.3 | 9.9 | " " |
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.1 | 10.2 | " " |
| Lamotte Turbidimeter 2568-1701 | 0 | 10 | 0.4 | 10 | " " |
| Lamotte Turbidimeter 3287-2202 | 0 | 10 | 0 | 9.9 | 19 April 07 |
| Lamotte Turbidimeter 2568-1701 | 0 | 10 | 0.2 | 10 | " " |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0.1 | 10.1 | " " |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.1 | 9.8 | " " |
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.3 | 10.2 | " " |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0 | 10 | 20 April 07 |
| Lamotte Turbidimeter | | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB **Calibrated By** Jeff Donovan

| Instrument/Serial Number | Pre-cal 0 (NTU) | Pre-cal 10 (NTU) | Post-cal 0 (NTU) | Post-cal 10 (NTU) | Date |
|---|---|---|---|---|---|
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.2 | 10.3 | 4/24/02 |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0 | 10 | " " |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.1 | 9.8 | " " |
| Lamotte Turbidimeter 5876-1905 | 0 | 10 | 0.0 | 10.2 | 4/25/07 |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.1 | 9.6 | " " |
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.2 | 10.1 | " " |
| Lamotte Turbidimeter 3287-2202 | 0 | 10 | 0 | 10 | " " |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0.2 | 9.6 | " " |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.3 | 10.1 | 4/26/07 |
| Lamotte Turbidimeter 5876-1905 | 0 | 10 | 0 | 10 | " " |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.1 | 10.2 | " " |
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.2 | 9.9 | " " |
| " " 3287-2202 | 0 | 10 | 0.1 | 9.9 | " " |

# INSTRUMENT CALIBRATION LOG

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

| Instrument/Serial Number | Pre-cal 0 (NTU) | Pre-cal 10 (NTU) | Post-cal 0 (NTU) | Post-cal 10 (NTU) | Date |
|---|---|---|---|---|---|
| Lamotte Turbidimeter 5876-1905 | 0 | 10 | 0.1 | 10.2 | 20 April 07 |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0.3 | 9.8 | " " |
| Lamotte Turbidimeter 3287-2202 | 0 | 10 | 0 | 10.1 | " " |
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.2 | 10 | " " |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0.0 | 9.9 | " " |
| Lamotte Turbidimeter 5876-1905 | 0 | 10 | 0.4 | 10 | 23 April ~~08~~ 07 |
| Lamotte Turbidimeter 2498-1501 | 0 | 10 | 0.1 | 10.1 | " " |
| Lamotte Turbidimeter 5902-2405 | 0 | 10 | 0.1 | 10.1 | " " |
| Lamotte Turbidimeter 3287-2202 | 0 | 10 | 0.3 | 10.2 | " " |
| Lamotte Turbidimeter 3146-1602 | 0 | 10 | 0 | 10 | " " |
| Lamotte Turbidimeter 5876-1905 | 0 | 10 | 0.1 | 10.2 | 24 April 07 |
| Lamotte Turbidimeter 3287-2202 | 0 | 10 | 0 | 10.1 | " " |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** BNAS, ME **Calibrated By** Geoff Cokinos

| Instrument/Serial Number | Pre-calibration Reading | Post-calibration Reading | Calibration Gas/Concentration | Date |
|---|---|---|---|---|
| Photovac 20/20 PID EDFN311 | 0 / 100 | 1 / 101 | Isobutylene / 100ppm | 18 April 07 |
| Photovac 20/20 PID EDFN311 | 0 / 101 | 0 / 100 | Isobutylene / 100ppm | 19 April 07 |
| Photovac 20/20 PID EDFN311 | 0 / 100 | 0 / 100 | Isobutylene / 100ppm | 20 April 07 |
| Photovac 20/20 PID EDFN311 | 1 / 99 | 0 / 99 | Isobutylene / 100ppm | 23 April 07 |
| Photovac 20/20 PID EDFN311 | 0 / 100 | 1 / 102 | Isobutylene / 100ppm | 24 April 07 |
| Photovac 20/20 PID EDFN311 | 0 / 98 | 0 / 100 | Isobutylene / 100ppm | 25 April 07 |
| Photovac 20/20 PID EDFN311 | 0 / 100 | 1 / 100 | Isobutylene / 100ppm | 26 April 07 |
| 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 | |

# CHAIN OF CUSTODY

NEL Job #:

NEL Control #:

**Client Information**

Name: ECC

Address: 33 Boston Post Rd. West, Suite 340

City: Marlborough, MA State: 01752 Zip:

Send Report to: Jackson Kiker

Phone #: 508-229-2270

**Facility Information**

Project Name: Site 9

Location: NASB Brunswick, Maine

Project No.: 5700.007.015.440

FAX #:

**Analytical Information**

| Field ID / Point of Collection | Collection Date | Collection Time | Sampled By | Matrix | # of bottles | Preservation HCL | Preservation Mech | Preservation HNO3 | Preservation Na2SO | Preservation None | TAL Metals | TCL VOC | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SW-10 | 4/4/07 | 1100 | MAC | GW | 9 | x | | x | | | X | X | ms/msd | | | | | | | | |
| BN-9-29-Sed-10 | 4/4/07 | 1115 | MAC | Sed | 12 | | x | | x | x | X | X | ms/msd | | | | | | | | |
| BN-9-29-LT-901 | 4/4/07 | 1040 | MAC | LT | 9 | x | | x | | | X | X | ms/msd | | | | | | | | |
| BN-9-29-SW-XD1 | 4/4/07 | 0000 | MAC | GW | 3 | x | | x | | | X | X | | | | | | | | | |
| BN-9-29-LT-XD1 | 4/4/07 | 0000 | MAC | LT | 3 | x | | x | | | X | X | | | | | | | | | |
| BN-9-29-Sed-XD1 | 4/4/07 | 0000 | MAC | Sed | 4 | | x | | x | x | X | X | | | | | | | | | |
| BN-9-29-Rinsate1 | 4/4/07 | 1245 | MAC | DI | 2 | x | | | | | | X | | | | | | | | | |
| BN-9-29-Source1 | 4/4/07 | 1250 | MAC | DI | 2 | x | | | | | | X | | | | | | | | | |
| BN-9-29-Trip1 | 4/4/07 | 1255 | MAC | DI | 5 | x | x | | x | | | X | | | | | | | | | |

**Turnaround Information**

- [ ] 21 Day Standard — Approved By:
- [x] 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**

Temp Blank Included

**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 Mark A. Carver | 4/6/07 1215 | 1 | 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 applic: | On Ice: |
| 5 | | 5 | | ☐ | ☑ 2.3, 3.0, 1.4°c |

# FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project Name: NASB, ME LTM
Site: NASB
Project Number: 5700.007
Sample Location ID: Site 9
Date / Time: 4/4/07 1035
ECC Personnel: MAC

## SURFACE WATER / LEACHATE SEEP INFORMATION

Type of S.W. ( ) Stream ( ) River (X) Seep

| | |
|---|---|
| Water Depth: .1' | Dissolved Oxygen (mg/L): 0.37 |
| Velocity of Water: Ø | ORP (mV) 126.1 |
| Temperature (C): 2.37 | Specific Conductance ( uS/cm$^c$): 251 |
| pH (units): 6.04 | Turbidity (NTU) 380 |

**Sample Observations:**
( ) Odor
( ) Color
( ) Other Decaying leaves/organic

## SEDIMENT / LEACHATE SEEP SEDIMENT INFORMATION

**Sed. Type:** ( ) Organic ( ) Gravel ( ) Clay ( ) Silt ( ) Sand ( ) Other _____

**Type of Samp. Collected:** ( ) Discrete ( ) Composite

**Sample Observations:**
( ) Odor
( ) Color
( ) Other

## SAMPLES COLLECTED

| Sample Identification | Sample Location | Date / Time | Matrix Aqueous | Matrix Solid | Preservative | Number of Containers |
|---|---|---|---|---|---|---|
| BN-9-29-LT901 | VOC | 4/4/07 1040 | x | | HCL | 6 MS/MSD |
| | TAL Metals | | x | | $HNO_3$ | 3 MS/MSD |
| BN-9-29-LT-XD1 | VOC | 4/4/07 — | x | | HCL | 2 |
| | TAL Metals | | x | | $HNO_3$ | 1 |

**Notes / Comments:**
SNOWING HARD
All samples dipped w/a clean dedicated glass jar

# FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project Name: NASB, ME LTM
Project Number: 5700.007
Date / Time: 4/4/07 1050

Site: NASB
Sample Location ID: Site 9
ECC Personnel: MAC

## SURFACE WATER / LEACHATE SEEP INFORMATION

Type of S.W. (X) Stream ( ) River ( ) Seep

| | | | |
|---|---|---|---|
| Water Depth: | .5' | Dissolved Oxygen (mg/L): | 7.74 |
| Velocity of Water: | .5'/sec | ORP (mV) | 79.6 |
| Temperature (C): | 5.49 | Specific Conductance ( uS/cm°): | 252 |
| pH (units): | 6.51 | Turbidity (NTU) | 9.5 |

Sample Observations:
( ) Odor Samples dipped w/ clean, dedicated glass jar
( ) Color
( ) Other

## SEDIMENT / LEACHATE SEEP SEDIMENT INFORMATION

Sed. Type: ( ) Organic ( ) Gravel ( ) Clay ( ) Silt (X) Sand ( ) Other

Type of Samp. Collected: (X) Discrete ( ) Composite

Sample Observations:
( ) Odor Light brown Coarse sand
( ) Color 1 5ML Syringe per each Na2SO4 VOA Vial } Per Accutest
( ) Other 2 5ML Syringes per each MeOH VOA Vial }

## SAMPLES COLLECTED

| Sample Identification | Sample Location | Date / Time | Matrix: Aqueous | Matrix: Solid | Preservative | Number of Containers |
|---|---|---|---|---|---|---|
| BN-9-29-SW10 | VOC | 4/4/07 1100 | x | | HCL | 6 MS/MSD |
| | TALMetals | 1100 | x | | HNO3 | 3 MS/MSD |
| BN-9-29-SW-XD1 | VOC | 4/4/07 — | x | | HCL | 2 |
| | TALMetals | — | x | | HNO3 | 1 |

Notes / Comments:

| | | | | | | |
|---|---|---|---|---|---|---|
| BN-9-29-SED10 | VOC | 4/4/07 | 1115 | x | MeOH | 3 MS/MSD |
| | VOC | 4/4/07 | 1115 | x | Na2SO4 | 6 MS/MSD |
| | TALMetals | 4/4/07 | 1115 | x | — | 3 MS/MSD |
| | | | | x | | |
| BN-9-29-SED-XD1 | VOC | 4/4/07 | — | x | MeOH | 1 |
| | VOC | 4/4/07 | — | x | Na2SO4 | 2 |
| | TALMetals | 4/4/07 | — | x | — | 1 |

# FIELD RECORD OF WELL GAUGING

| | | | |
|---|---|---|---|
| Project Name: | NASB, ME LTM Site 9 | Gauge Date: | 4/3/2007 |
| Project Number: | 5700.007.015.440 | Slope Indicator | Gauge Time: 0900-1530 |
| ECC Personnel: | MAC | interface probe | |

| Well Identification Number | Well Lock Status | Stick Up or F.M. | Well Physical Condition | PVC Casing Elevation (ft) | Well Diameter (inches) | Total Depth of Well (ft) | Installed Depth of Well (ft) | Depth to Water (ft) | Depth to to Liquid (ft) | Water Table Elevation (ft) | Dedicated Pump X = In Well O = In Plant |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Site 9** | | | | | | | | | | | |
| MW-NASB-069 | NA | FM | Good | | 2 | NA | 42.42 | NA | ND | | O |
| MW-NASB-070 | NA | FM | Good | 58.26 | 2 | 24.53 | 27.32 | 8.04 | ND | 50.22 | O |
| MW-NASB-071 | Good | Stick Up | Good | 46.25 | 2 | NA | 21.54 | 1.67 | ND | 44.58 | O |
| MW-NASB-072 | Good | Stick Up | Good | 49.81 | 2 | 14.88 | 14.63 | 8.67 | ND | 41.14 | O |
| MW-NASB-073 | Good | Stick Up | Good | 51.71 | 2 | 32.49 | 32.12 | 8.12 | ND | 43.59 | O |
| MW-NASB-074 | Good | Stick Up | Good | 51.68 | 2 | 27.46 | 27.12 | 9.10 | ND | 42.58 | O |
| MW-NASB-075 | Good | Stick Up | Good | 54.91 | 2 | 21.55 | 21.22 | 12.90 | ND | 42.01 | O |
| MW-NASB-076 | Good | Stick Up | Good | 52.79 | 2 | 20.30 | 19.94 | 10.77 | ND | 42.02 | O |
| MW-NASB-077 | Good | Stick Up | Good | 58.89 | 2 | 37.32 | 37.29 | 15.49 | ND | 43.40 | O |
| MW-NASB-078 | Good | Stick Up | Good | 53.74 | 2 | Pump | 14.93 | 8.20 | ND | 45.54 | X |
| MW-NASB-081 | Good | Stick Up | Good | 58.22 | 2 | 15.21 | 18.85 | 12.50 | ND | 45.72 | O |
| MW-NASB-022 | NA | FM | Good | 59.52 | 2 | 16.12 | 17.97 | 7.55 | ND | 51.97 | O |
| MW-NASB-204 | Good | Stick Up | Good | 62.09 | 2 | 17.50 | 17.93 | 8.80 | ND | 53.29 | X |
| MW-NASB-227 | Good | Stick Up | Good | 58.39 | 2 | 40.11 | 40.60 | 9.35 | ND | 49.04 | O |
| SG-1C | NA | NA | Good | | NA | NA | NA | 2.84 | NA | | NA |
| SG-2 | NA | NA | Good | | NA | NA | NA | NA | NA | | NA |
| **NEX** | | | | | | | | | | | |
| MW-NASB-008 | Good | F.M. | Good | 59.22 | 2 | 13.25 | | 1.61 | ND | 57.61 | No |
| MW-NASB-009 | Good | F.M. | Good | 59.00 | 2 | 11.33 | | 3.25 | ND | 55.75 | No |
| MW-NASB-010 | Good | F.M. | Good | 62.03 | 2 | NA | | 6.23 | ND | 55.80 | No |
| MW-NASB-023 | Good | F.M. | Good | 67.29 | 2 | 19.74 | | 6.99 | ND | 60.30 | No |
| MW-NASB-024 | Good | F.M. | Good | 65.31 | 4 | 13.21 | | 5.03 | ND | 60.28 | No |
| MW-NASB-025 | Good | F.M. | Good | 64.34 | 4 | 14.7 | | 6.25 | ND | 58.09 | No |
| MW-NASB-026 | Good | F.M. | Good | 66.61 | 2 | 9.47 | | 6.83 | ND | 59.78 | No |
| MW-NASB-225 | Good | F.M. | Good | 64.61 | 2 | 14.50 | | 6.24 | ND | 58.37 | No |
| MW-NASB-226 | Good | F.M. | Good | 62.22 | 2 | 12.57 | | 4.55 | ND | 57.67 | No |
| MW-NASB-250 | Good | F.M. | Good | | 1 | 10.25 | | 2.67 | ND | | No |
| MW-NASB-251 | Good | F.M. | Good | 62.39 | 1 | 7.04 | | 4.07 | ND | 58.32 | No |
| MW-NASB-252 | Good | F.M. | Good | 59.86 | 1 | 12.08 | | 1.41 | ND | 58.45 | No |
| MW-DP-1 | NA | F.M. | Good | | 1 | 14.95 | | 7.22 | ND | | No |
| MW-DP-2 | NA | F.M. | Good | | 1 | 14.76 | | 7.12 | ND | | No |
| MW-DP-3 | NA | F.M. | Good | | 1 | 14.72 | | 7.21 | ND | | No |
| MW-DP-9 | NA | F.M. | Good | | 1 | 14.90 | | 6.85 | ND | | No |
| MW-DP-13 | NA | F.M. | Good | | 1 | 14.81 | | 7.15 | ND | | No |
| MW-DP-15 | NA | F.M. | Good | | 1 | 14.50 | | 7.08 | ND | | No |
| MW-DP-19 | NA | F.M. | Good | | 1 | 2.17 | | DRY | ND | | No |
| MW-B27-DP-2 | NA | F.M. | Good | | 1 | 8.78 | | 3.48 | ND | | No |
| MW-B27-DP-4 | NA | F.M. | Good | | 1 | 7.75 | | 2.75 | ND | | No |

**Comments:** No product detected in any wells. SG-2 knocked down by ice, needs to be remounted and surveyed.
MW-NASB-022 gauged 4/3/07. TOC elevation is 12.10" below asphalt grade (last survey elevation was to asphalt grade).

# INSTRUMENT CALIBRATION LOG

Site 7

**Project/Site Name** NASB BLDG 95 **Date** 4/3/07 **Weather** Rainy/Snowy/Cold

**Calibrated By** MAC **Instrument** YSI 650 MDS **Serial Number** 06D2528 AF
YSI 600 XL-B-M 06F2353 AB

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 100.7 | 101.0 | 19.61 | |
| pH (7) | 7.15 | 7.00 | 19.38 | |
| pH (4) | 3.85 | 4.00 | 19.50 | |
| pH (10) | | | | |
| ORP | 285.9 | 240.0 | 19.37 | |
| Dissolved Oxygen | 1369 | 1417 | 19.41 | |
| Barometric Pressure | 768 MMHg | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Site 9 SW/SED/Seep
Bldg 95

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB BLDG 95 **Date** 4/4/07 **Weather** Cloudy/Cold/Snowy

**Calibrated By** MAC **Instrument** YSI 650 MDS, YSI 600 XL-B-M **Serial Number** 06D2528 AF, 06F2353 AB

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 1407 | 1413 | | |
| pH (7) | 6.97 | 7.00 | 18.49 | |
| pH (4) | 4.02 | 4.00 | 18.41 | |
| pH (10) | | | | |
| ORP | 241.8 | 240.0 | 18.55 | |
| Dissolved Oxygen | 98.9% | 100.7% | 18.82 | |
| Barometric Pressure | 1019.3 MB = 765 MM Hg | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB- Bldg 95 **Calibrated By** MAC

| Instrument/Serial Number | Pre-cal 1.0 (NTU) | Pre-cal 10 (NTU) | Post-cal 1.0 (NTU) | Post-cal 10 (NTU) | Date | |
|---|---|---|---|---|---|---|
| Lamotte Turbidimeter 2568-1701 | 0.90 | 10 | 1.0 | 10 | 4/3/07 | Site 7 |
| Lamotte Turbidimeter 2568-1701 | 1.1 | 10 | 1.0 | 10 | 4/4/07 | Site 9 SW/Seep/Se Bldg95 |
| Lamotte Turbidimeter 2568-1701 | 0.95 | 11 | 1.0 | 10 | 4/5/07 | Bldg95 |
| Lamotte Turbidimeter 2568-1701 | | | | | | |
| Lamotte Turbidimeter 2568-1701 | | | | | | |
| Lamotte Turbidimeter 2568-1701 | | | | | | |
| Lamotte Turbidimeter 2568-1701 | | | | | | |
| Lamotte Turbidimeter | | | | | | |
| Lamotte Turbidimeter | | | | | | |
| Lamotte Turbidimeter | | | | | | |
| Lamotte Turbidimeter | | | | | | |
| Lamotte Turbidimeter | | | | | | |

# INSTRUMENT CALIBRATION LOG

**Project/Site Name** NASB BLDG 95 **Date** 4/5/07 **Weather** 14" SNOW

**Calibrated By** MAC **Instrument** YSI 650 MDS / YSI 600 XL-B-M **Serial Number** 06D2528 AF / 06F2353 AB

| Parameters | Pre-calibration Reading | Post-calibration Reading | Temperature °C | Comments |
|---|---|---|---|---|
| Conductivity | 1387 | 1413 | 18.40 | |
| pH (7) | 7.04 | 7.00 | 18.36 | |
| pH (4) | 3.94 | 4.00 | 18.48 | |
| pH (10) | | | | |
| ORP | 242.2 | 240.0 | 17.98 | |
| Dissolved Oxygen | 98.3% | 98.4% | 18.48 | |
| Barometric Pressure | 747.8 mmHg | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

# FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project Name: NASB, ME LTM
Site: NASB
Project Number: 5700.007
Sample Location ID: Site 9
Date / Time: 4/4/07 1035
ECC Personnel: MAC

## SURFACE WATER / LEACHATE SEEP INFORMATION

Type of S.W. ( ) Stream ( ) River (X) Seep

| | |
|---|---|
| Water Depth: .1' | Dissolved Oxygen (mg/L): 0.37 |
| Velocity of Water: Ø | ORP (mV) 126.1 |
| Temperature (C): 2.37 | Specific Conductance ( uS/cm$^c$): 251 |
| pH (units): 6.04 | Turbidity (NTU) 380 |

**Sample Observations:**
( ) Odor
( ) Color
( ) Other Decaying leaves/organic

## SEDIMENT / LEACHATE SEEP SEDIMENT INFORMATION

**Sed. Type:** ( ) Organic ( ) Gravel ( ) Clay ( ) Silt ( ) Sand ( ) Other _____

**Type of Samp. Collected:** ( ) Discrete ( ) Composite

**Sample Observations:**
( ) Odor
( ) Color
( ) Other

## SAMPLES COLLECTED

| Sample Identification | Sample Location | Date / Time | Matrix Aqueous | Matrix Solid | Preservative | Number of Containers |
|---|---|---|---|---|---|---|
| BN-9-29-LT901 | VOC | 4/4/07 1040 | x | | HCL | 6 MS/MSD |
| | TAL Metals | | x | | $HNO_3$ | 3 MS/MSD |
| BN-9-29-LT-XD1 | VOC | 4/4/07 — | x | | HCL | 2 |
| | TAL Metals | | x | | $HNO_3$ | 1 |

**Notes / Comments:**
SNOWING HARD
All samples dipped w/a clean dedicated glass jar

# FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project Name: NASB, ME LTM
Project Number: 5700.007
Date / Time: 4/4/07 1050

Site: NASB
Sample Location ID: Site 9
ECC Personnel: MAC

## SURFACE WATER / LEACHATE SEEP INFORMATION

Type of S.W. (X) Stream ( ) River ( ) Seep

| | | | |
|---|---|---|---|
| Water Depth: | .5' | Dissolved Oxygen (mg/L): | 7.74 |
| Velocity of Water: | .5'/sec | ORP (mV) | 79.6 |
| Temperature (C): | 5.49 | Specific Conductance ( uS/cm°): | 252 |
| pH (units): | 6.51 | Turbidity (NTU) | 9.5 |

Sample Observations:
( ) Odor Samples dipped w/ clean, dedicated glass jar
( ) Color
( ) Other

## SEDIMENT / LEACHATE SEEP SEDIMENT INFORMATION

Sed. Type: ( ) Organic ( ) Gravel ( ) Clay ( ) Silt (X) Sand ( ) Other

Type of Samp. Collected: (X) Discrete ( ) Composite

Sample Observations:
( ) Odor Light brown Coarse sand
( ) Color 1 5ML Syringe per each Na2SO4 VOA Vial } Per Accutest
( ) Other 2 5ML Syringes per each MeOH VOA Vial }

## SAMPLES COLLECTED

| Sample Identification | Sample Location | Date / Time | Matrix: Aqueous | Matrix: Solid | Preservative | Number of Containers |
|---|---|---|---|---|---|---|
| BN-9-29-SW10 | VOC | 4/4/07 1100 | x | | HCL | 6 MS/MSD |
| | TALMetals | 1100 | x | | HNO3 | 3 MS/MSD |
| BN-9-29-SW-XD1 | VOC | 4/4/07 — | x | | HCL | 2 |
| | TALMetals | — | x | | HNO3 | 1 |

Notes / Comments:

| | | | | | | |
|---|---|---|---|---|---|---|
| BN-9-29-SED10 | VOC | 4/4/07 | 1115 | x | MeOH | 3 MS/MSD |
| | VOC | 4/4/07 | 1115 | x | Na2SO4 | 6 MS/MSD |
| | TALMetals | 4/4/07 | 1115 | x | — | 3 MS/MSD |
| | | | | x | | |
| BN-9-29-SED-XD1 | VOC | 4/4/07 | — | x | MeOH | 1 |
| | VOC | 4/4/07 | — | x | Na2SO4 | 2 |
| | TALMetals | 4/4/07 | — | x | — | 1 |

# APPENDIX B

Analytical Data Quality Review

Site 9

April 2007 Sampling Event

# APPENDIX B
Analytical Data Quality Review
Site 9
April 2007 Sampling Event 30

## B.1 INTRODUCTION:

This project utilized both field and analytical laboratory quality control measures to ensure that the data quality objectives presented in the Base-Wide Quality Assurance Project Plan (QAPP) (ECC/EA 2006)[1] were met.

For the combined analyses for these sites, the laboratory was provided with all field samples, which included the field quality control samples. Field sample duplicates and trip blanks were collected at the frequency required by the QAPP.

The samples were sent to Accutest Laboratories in Marlborough, Massachusetts which is NFESC and NELAC certified.

Analytical quality control was reviewed for compliance against the measurement performance criteria for precision and accuracy for each sample and analysis type, including field sample duplicates, as presented in the QAPP. Analytical precision for organics was based upon the relative percent difference (RPD) of the matrix spike/matrix spike duplicates (MS/MSD), and analytical precision for inorganics was based upon the laboratory replicate RPD. Accuracy for organics was based upon the reported spike recoveries for the laboratory control samples (LCS), MS/MSD, and surrogate system monitoring compound (SMC) recoveries (for organic analysis), and LCS and MS recoveries (for inorganic analysis).

The ability of the laboratory to extract organic compounds was confirmed by the recoveries of the surrogate spikes. MS/MSD and surrogate spike recoveries measure the effect of the sample matrix and extraction on organic sample preparation and measurement methodology. Post digestion spikes, matrix spikes, or serial dilutions are used to measure the effect of the inorganic sample matrix on preparation and measurement methodology. During the MS/MSD process, known quantities of target compounds are spiked into the sample matrix, and recoveries are used to measure potential bias due to matrix effects. The MS/MSD RPD or laboratory replicate RPD is used to determine analytical precision, and the field duplicate RPD is used to determine overall precision. The accuracy of the LCS spike recoveries is used in conjunction with MS/MSD when evaluating organic analyses.

Field completeness was quantified by reviewing the scheduled number of samples to the number of samples actually collected. Data completeness was quantified by determining

1. ECC/EA January 2006. Final Long-Term Monitoring Plan (including Quality Assurance Project Plan), Site 9, Naval Air Station, Brunswick, Maine.

the ratio of the number of non-rejected analyte measurements to the total number of analyte measurements.

For clarity, the following terms are defined for use throughout this appendix:

- ***Method Detection Limit –*** The method detection limit (MDL) refers to the minimum concentration that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. The method detection limits are summarized at the end of this report.

- ***Practical Quantitation Limit –*** The practical quantitation limit (PQL) is defined as the lowest concentration that can be reasonably achieved within specified units of precision and accuracy during routine laboratory operating conditions.

- ***Method Reporting Limit*** – The method reporting limit (MRL) is defined as the Project Quantitation Limit adjusted for any necessary sample dilutions, percent moisture, sample volume deviations, and/or extract/digestate volume deviations.

- ***Measurement Performance Criteria***— The measurement performance criteria (MPC) define the acceptable performance for the data quality indicators- accuracy and precision. The LTMP QAPP specifies the project MPC for LCS, surrogates, MS/MSD, and MS/MSD RPD quality control checks.

- ***Precision*** - Precision is evaluated by comparing the relative percent difference (RPD) of the MS/MSD or laboratory replicate sample pairs to the QAPP RPD limits. If the RPD is outside the measurement performance criteria, the positive detect or non-detect is qualified for the affected compound in the unspiked sample (U.S. EPA 1996). The overall precision is determined by comparing the field duplicate RPD to the QAPP RPD limits.

- ***Accuracy***- Accuracy is evaluated by comparing MS/MSD recoveries, surrogate spike recoveries, and LCS recoveries to QAPP MPC.

- ***J*** – Data qualifier indicating that the analyte was positively identified; however, the concentration is approximate.

- ***UJ*** - Data qualifier indicating that the analyte was not detected above the MRL, and the reporting limit is approximate.

- ***U*** - The parameter was analyzed, but was not detected above the sample MDL.

- ***R*** - The sample result was rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

## B.2 LABORATORY ANALYTICAL QUALITY CONTROL PROGRAM:

Aqueous samples collected from the ten monitoring wells were analyzed for LTMP parameters:

- LTMP Target Compound List (TCL) volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.
- LTMP Target Compound List (TCL) semivolatile organic compounds (SVOCs) by EPA SW-846 Method 8270C.
- MEDEP-DRO by Method 4.1.25 09/6/95
- LTMP Target Analyte List (TAL) Metals by EPA SW-846 6010B/7000 Methods.

Soil samples collected were analyzed for LTMP parameters:

- LTMP Target Compound List (TCL) volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.
- LTMP Target Analyte List (TAL) Metals by EPA SW-846 6010B/7000 Methods.

The quality control measures specified in the EPA SW-846 methodology (MS/MSD, surrogates, and LCS), as well as those in the QAPP, were performed at the proper frequency by the laboratory and established proper analytical quality control. The range of results for the accuracy and precision data quality objectives are discussed in the subsections below.

### B.2.1 LABORATORY ACCURACY EVALUATION

#### B.2.1.1 Evaluating Matrix Spike/Matrix Spike Duplicate Recoveries for Accuracy

Generally, no action is taken based on the MS/MSD recoveries alone to qualify an entire sample delivery group. The qualification is limited to the unspiked sample associated with the MS/MSD. However, professional judgment may be used to qualify samples across a particular sample delivery group (i.e., all associated samples). Standard procedures for qualifying field sample results for MS/MSD recoveries are summarized below.

- If the spike recovery is greater than the upper control limit (UCL), then detects are estimated (J) and the non-detects are not impacted for the affected compounds in the unspiked sample.
- If the spike recovery is greater than or equal to 10 percent, but less than the lower control limit (LCL), then detects are estimated (J) and the non-detects are estimated (UJ) for the affected compounds in the unspiked sample.
- If the spike recovery is less than 10 percent, then detects are estimated (J) and the non-detects are rejected (R) for the affected compounds in the unspiked sample.

#### B.2.1.2 Evaluating Surrogate Recoveries for Accuracy

Procedures for qualifying field sample results for surrogate recoveries are summarized below. Surrogate recovery assessments are sample-specific.

- If the surrogate recovery is greater than the UCL, all detects are estimated (J) and the non-detects are not affected (U.S. EPA 1996).
- If the surrogate recovery is greater than or equal to 10 percent, but less than the LCL, then all detects are estimated (J) and all non-detects are estimated (UJ).
- If the surrogate recovery is less than 10 percent, then the detects are estimated (J) and all non-detects are rejected (R).

#### B.2.1.3 Evaluating Laboratory Control Sample Recoveries for Accuracy

Procedures for qualifying field samples for LCS recoveries are summarized below. LCS assessments are generally applied to an entire sample batch.

- If the LCS recovery is greater than the UCL, detects are estimated (J) and the non-detects are not affected (U.S. EPA 1996).

- If the LCS recovery is greater than or equal to 10 percent, but less than the LCL, detects are estimated (J) and the non-detects are estimated (UJ).

- If the LCS recovery is less than 10 percent, detects are estimated (J) and the non-detects are rejected (R).

#### B.2.1.4 Evaluating Laboratory Method Blanks for Accuracy

- Procedures for qualifying field samples for method blank results are summarized below. Method blank assessments are generally applied to an entire sample batch.

- Method blank results should not have any analyte detections greater than the MRL.

- Analytes detected in field samples are evaluated at a five times detections of those analytes in the associated method blank.

- Field samples associated with the method blank, which have detected analyte levels less than five the corresponding analyte level in the method blank, are qualified as non-detect (U) for that analyte.

- Field samples associated with the method blank, which have detected analyte levels greater than five the corresponding analyte level in the method blank, are not qualified.

## B.2.2 LABORATORY ACCURACY ASSESSMENT

Project-specific assessment of laboratory accuracy is detailed in this section.

### B.2.2.1 LTMP Volatile Organic Compounds

Accuracy assessment for volatile organic compounds is detailed in this section.

#### B.2.2.1.1 Surrogates

Three surrogates (Dibromofluoromethanre, Toluene-d8 and 4-bromofluorobenzene) were used to measure the ability of the laboratory to purge the target analytes from the environmental samples for Method 8260B. The surrogate control limits for data assessment were the limits identified in the QAPP. All surrogates recovered within the QC limits. No qualifications were required.

#### B 2.2.1.2 MS/MSD

Four sets of MS/MSDs were associated with volatile analyses: BN-9-29-SW-10, BN-9-29-Sed-10, BN-9-29-LT-901 and BN-9-30-MW227.

MS and MSD were performed on sample BN-9-29-SW-10. All %REC were within the QC limits with the following exception: Methylene chloride %REC in both MS and MSD was below the QC limits. Methylene chloride in the native sample was qualified as estimated (UJ).

MS and MSD were performed on sample BN-9-30-MW227. All %REC were within the QC limits with the following exception: Carbon disulfide in the native sample was qualified UJ.

#### B.2.2.1.3 LCS

LCS %REC's associated with both water and soil samples in SDG M63904 were within QC limits. No qualifications were required.

LCS %REC's associated with SDG M64253 were acceptable with the exception of Carbon disulfide recovered below the QC limits. All non detect results were qualified as estimated (UJ).

#### B.2.2.1.4 Method Blank

All Method Blanks associated with water and soil samples in SDG M63904 were free of contaminations. No qualifications were required.

Method Blank associated with water samples in SDG M64253 was free of contaminations. No qualifications were required.

### B.2.2.2 LTMP Semi-Volatile Organic Compounds

Accuracy assessment for semi-volatile organic compounds is detailed in this section.

#### B.2.2.2.1 Surrogates

Six surrogates (2-Fuorophenol, Phenol-d5, 2,4,6-Tribromophenol, Nitrobenzene, 2-Fluorobiphenyl and Terphenyl-d14) were used to measure the ability of the laboratory to extract analytes from the environmental samples for Method 8270C. The surrogate control limits for data assessment were the limits identified in the QAPP. All surrogates recovered within the QC limits. No qualifications were required.

#### B 2.2.2.2 MS/MSD

One set of MS/MSD was associated with semi-volatile analysis: BN-9-30-MW70.

MS and MSD were performed on sample BN-9-30-MW70. All %REC were within the QC limits with the following exceptions: Dimethyl phthalate and 3-Nitroaniline were qualified UJ in the native sample

#### B.2.2.2.3 LCS

LCS %REC's associated with SDG M64253 were acceptable with the exception of Dimethyl phthalate recovered below QC limits. Non detected results were qualified UJ in samples: BN-9-30-MW70, BN-9-30-MW-XD1 and BN-9-30-MW71.

#### B.2.2.2.4 Method Blank

Method Blank associated with water samples in SDG M64253 was free of contaminations. No qualifications were required.

### B.2.2.3 LTMP MEDEP-DRO

Accuracy assessment for MEDEP-DRO (C10-C28) is detailed in this section.

#### B.2.2.3.1 Surrogates

One surrogate (1-Chlorooctadecane) was used to measure the ability of the laboratory to extract analytes from the environmental samples for Method ME 4.1.25 9/95. The surrogate control limits for data assessment was the limits identified in the QAPP. The surrogate recovered within the QC limits. No qualifications were required.

#### B 2.2.3.2 MS/MSD

One set of MS/MSD was associated with semi-volatile analysis: BN-9-30-MW74.

MS and MSD were performed on sample BN-9-30-MW74. All %REC were within the QC limits.

#### B.2.2.3.3 LCS

LCS %REC associated with SDG M64253 was acceptable.

#### B.2.2.3.4 Method Blank

Method Blank associated with water samples in SDG M64253 was free of contaminations. No qualifications were required.

### B.2.2.4 LTMP Target Analyte List Metals

Accuracy assessment for target analyte list metals is detailed in this section.

#### B.2.2.4.1 MS/MSD

Four sets of MS/MSDs were associated with volatile analyses: BN-9-29-SW-10, BN-9-29-Sed-10, BN-9-29-LT-901 and BN-9-30-MW70.

All %REC's were within the QC limits. No qualifications were required.

#### B.2.2.4.2 LCS

The LCS samples were analyzed at the correct frequency and the accuracy limits used to evaluate the data were taken from the QAPP.

The LCS recoveries in all TAL-Metals in this SDG were acceptable. No qualifications were required.

#### B.2.2.4.3 Method Blank

All method blanks were free of contaminations. No qualifications were required.

## B.2.3 LABORATORY PRECISION EVALUATION

### B.2.3.1 Evaluating Matrix Spike/Matrix Spike Duplicate and Sample duplicate Relative Percent Differences for Laboratory Precision

Generally, no action is taken based on the MS/MSD and sample duplicate RPDs alone to qualify an entire sample delivery group. The qualification is limited to the unspiked sample associated with the MS/MSD. However, professional judgment may be used to qualify samples across a particular sample delivery group (i.e., all associated samples). All QAPP compounds are used to assess the MS/MSD RPDs.

If the MS/MSD and sample duplicate RPD is greater than 20% for (aqueous) and 40% for (soil), the result for the outlier compound is qualified as estimated (J for detects and UJ for non-detects) in the native sample.

### B.2.3.2 Evaluating Laboratory Replicate Relative Percent Differences for Laboratory Precision

Procedures for qualifying field samples for laboratory replicate RPDs are summarized below.

If the laboratory replicate RPD is greater than QC limits and if the analyte concentration is greater than the MRL, then sample results are qualified as estimated (J for detects and UJ for non-detects).

Laboratory replicates are generally analyzed for inorganic analyses.

## B.2.4 LABORATORY PRECISION ASSESSMENT

Project-specific assessment of precision is detailed in this section.

### B.2.4.1 Volatile Organic Compounds

Precision assessment for volatile organic compounds is detailed in this section.

#### B.2.4.1.1 MS/MSD RPD's

The MS/MSD RPDs associated with all four sets (reported in SDGs M63904 and M64253) were all acceptable. No qualifications were required.

### B.2.4.2 Semi-Volatile Organic Compound

Precision assessment for semi-volatile organic compounds is detailed in this section.

#### B.2.4.2.1 MS/MSD RPD's

The MS/MSD RPDs associated with SDG M64253 were all acceptable. No qualifications were required.

### B.2.4.3 MEDEP-DRO

Precision assessment for MEDEP-DRO is detailed in this section.

#### B.2.4.3.1 MS/MSD RPD's

The MS/MSD RPD associated with all M64253 was acceptable. No qualifications were required.

### B.2.4.4 LTMP Target Analyte List Metals

Precision assessment for target analyte list metals is detailed in this section.

#### B.2.4.4.1 Sample Duplicate RPD

Sample Duplicate was performed on sample BN-9-29-LT-901. RPD for following elements were >20: Aluminum, Chromium, Copper, Iron, Magnesium, Manganese, Vanadium and Zinc. All positive results were qualified as estimated (J).

Sample Duplicate was performed on sample BN-9-29-Sed-10. RPD for following elements were >20: Zinc. All positive results were qualified as estimated (J) in samples BN-9-29-Sed-10 and BN-9-29-Sed-XD1. Sample duplicates sample BN-9-30-MW-70 were

RPDs for the following elements were greater than 20% in select samples:

| Element | Sample | Action |
|---|---|---|
| Beryllium | BN-9-30-MW70, BN-9-MW71<br>BN-9-30-MW-XD1 | J<br>UJ |
| Copper | BN-9-30-MW70, BN-9-MW71<br>BN-9-30-MW-XD1 | J |
| Nickel | BN-9-30-MW70, BN-9-MW71<br>BN-9-30-MW-XD1 | J |
| Vanadium | BN-9-30-MW70, BN-9-MW71<br>BN-9-30-MW-XD1 | J<br>UJ |

## B.3 FIELD SAMPLING QUALITY CONTROL PROGRAM:

A field duplicate was collected and analyzed for the same parameters as the environmental samples to determine field sampling precision.

## B.3.1 FIELD PRECISION EVALUATION

### B.3.1.1 Field Duplicate Sample Precision Evaluation

Field duplicate samples are used to evaluate the overall precision of both the field and laboratory. EPA Region I criteria for evaluating field duplicates, the following guideline were used to review the field duplicate collected and analyzed during the sampling event.

- Field sample and field duplicate sample results greater than twice the MRL were evaluated and the RPD was calculated.
- A detect greater than the MRL in one but non-detect in another sample of the field duplicate pair were qualified as estimated for detects and non-detect results were qualified as estimated non-detect.
- The overall precision was evaluated as being acceptable if less than 30 percent.

## B.3.2 FIELD PRECISION ASSESSMENT

Field precision assessment for volatiles, semi-volatiles, ME-DRO and metals analyses detailed in this section. Field duplicate criteria are 30%.

Six field samples and corresponding field duplicate samples, listed in the table below, were collected during the April monitoring event.

| Site Sample | Duplicate Sample | Event | Lab ID | Lab ID | Analyses |
|---|---|---|---|---|---|
| BN-9-29-SW-10 | BN-9-29-SW-XD1 | 29 | M63904 | M63904- 1 / 4 | VOCs, Metals |
| BN-9-29-Sed-10 | BN-9-29-Sed-XD1 | 29 | M63904 | M63904- 2/ 6 | VOCs, Metals |
| BN-9-29-LT-901 | BN-9-29-LT-XD1 | 29 | M62904 | M63904- 3/ 5 | VOCs, Metals |
| BN-9-30-MW227 | BN-9-30-MW-XD3 | 30 | M64253 | M64253-15/16 | VOC |
| BN-9-30-MW70 | BN-9-30-MW-XD1 | 30 | M64253 | M64253-3/4 | SVOC, Metals |
| BN-9-30-MW74 | BN-9-30-MW-XD2 | 30 | M64253 | M64253-9/10 | MEDEP-DRO |

Field duplicate sample results for each sample set are discussed below:

### B.3.2.1 Field Duplicate BN-9-29-SW

One field duplicate set was collected from monitoring well BN-9-29-SW, and were identified as BN-9-29-SW-10 (site sample) and BN-9-29-SW-XD1 (field duplicate). The following table lists the set of field duplicate groundwater sample results that are associated with sample delivery group: M63904:

#### B.3.2.1.1 Field Duplicate RPDs

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SW-10 | Aluminum | SW-846 6010B | 247 | µg/L | BN-9-29-SW-XD1 | 264 | µg/L | 6.7 | |
| BN-9-29-SW-10 | Barium | SW-846 6010B | 23.4 | µg/L | BN-9-29-SW-XD1 | 22.9 | µg/L | 2.2 | |
| BN-9-29-SW-10 | Calcium | SW-846 6010B | 19400 | µg/L | BN-9-29-SW-XD1 | 18600 | µg/L | 4.2 | |
| BN-9-29-SW-10 | Chromium | SW-846 6010B | 0.71 | µg/L | BN-9-29-SW-XD1 | 1.1 | µg/L | **43.1** | **J** |
| BN-9-29-SW-10 | Copper | SW-846 6010B | 4.4 | µg/L | BN-9-29-SW-XD1 | 3.9 | µg/L | 12.0 | |
| BN-9-29-SW-10 | Iron | SW-846 6010B | 697 | µg/L | BN-9-29-SW-XD1 | 760 | µg/L | 8.6 | |
| BN-9-29-SW-10 | Lead | SW-846 6010B | 1.1 | µg/L | BN-9-29-SW-XD1 | 0.9 | µg/L | 20.0 | |
| BN-9-29-SW-10 | Magnesium | SW-846 6010B | 2560 | µg/L | BN-9-29-SW-XD1 | 2450 | µg/L | 4.4 | |
| BN-9-29-SW-10 | Manganese | SW-846 6010B | 371 | µg/L | BN-9-29-SW-XD1 | 355 | µg/L | 4.4 | |
| BN-9-29-SW-10 | Nickel | SW-846 6010B | 2.1 | µg/L | BN-9-29-SW-XD1 | 2.1 | µg/L | 0.0 | |
| BN-9-29-SW-10 | Potassium | SW-846 6010B | 2040 | µg/L | BN-9-29-SW-XD1 | 1980 | µg/L | 3.0 | |
| BN-9-29-SW-10 | Sodium | SW-846 6010B | 27100 | µg/L | BN-9-29-SW-XD1 | 26100 | µg/L | 3.8 | |
| BN-9-29-SW-10 | Vanadium | SW-846 6010B | 1.6 | µg/L | BN-9-29-SW-XD1 | 1.4 | µg/L | 13.3 | |
| BN-9-29-SW-10 | Zinc | SW-846 6010B | 28.6 | µg/L | BN-9-29-SW-XD1 | 29.9 | µg/L | 4.4 | |

The field duplicates were considered to be in agreement and field precision was acceptable with the exception of one compound which was qualified (J) due to the high RPD values.

### B.3.2.2 Field Duplicate BN-9-29-LT-901

One field duplicate set was collected from monitoring well BN-9-29-LT-901, and were identified as BN-9-29-LT-901 (site sample) and BN-9-29-LT-XD1 (field duplicate). The following table lists the set of field duplicate groundwater sample results that are associated with sample delivery group: M63904.

### B.3.2.2.1 Field Duplicate RPDs

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-LT-901 | Aluminum | SW-846 6010B | 45300 | µg/L | BN-9-29-LT-XD1 | 31700 | µg/L | **35.3** | **J** |
| BN-9-29-LT-901 | Arsenic | SW-846 6010B | 4.3 | µg/L | BN-9-29-LT-XD1 | 2.3 | µg/L | **60.6** | **J** |
| BN-9-29-LT-901 | Barium | SW-846 6010B | 938 | µg/L | BN-9-29-LT-XD1 | 643 | µg/L | **37.3** | **J** |
| BN-9-29-LT-901 | Beryllium | SW-846 6010B | 2.8 | µg/L | BN-9-29-LT-XD1 | 1.5 | µg/L | **60.5** | **J** |
| BN-9-29-LT-901 | Calcium | SW-846 6010B | 73300 | µg/L | BN-9-29-LT-XD1 | 51500 | µg/L | **34.9** | **J** |
| BN-9-29-LT-901 | Chromium | SW-846 6010B | 89.9 | µg/L | BN-9-29-LT-XD1 | 77.4 | µg/L | 14.9 | |
| BN-9-29-LT-901 | Cobalt | SW-846 6010B | 89.9 | µg/L | BN-9-29-LT-XD1 | 77.4 | µg/L | 14.9 | |
| BN-9-29-LT-901 | Copper | SW-846 6010B | 37.3 | µg/L | BN-9-29-LT-XD1 | 27.7 | µg/L | 29.5 | |
| BN-9-29-LT-901 | Iron | SW-846 6010B | 733000 | µg/L | BN-9-29-LT-XD1 | 523000 | µg/L | **33.4** | **J** |
| BN-9-29-LT-901 | Lead | SW-846 6010B | 77.6 | µg/L | BN-9-29-LT-XD1 | 69.8 | µg/L | 10.6 | |
| BN-9-29-LT-901 | Magnesium | SW-846 6010B | 15700 | µg/L | BN-9-29-LT-XD1 | 12400 | µg/L | 23.5 | |
| BN-9-29-LT-901 | Manganese | SW-846 6010B | 12600 | µg/L | BN-9-29-LT-XD1 | 14100 | µg/L | 11.2 | |
| BN-9-29-LT-901 | Mercury | SW-846 7470A | 0.15 | µg/L | BN-9-29-LT-XD1 | 0.12 | µg/L | 22.2 | |
| BN-9-29-LT-901 | Nickel | SW-846 6010B | 66.7 | µg/L | BN-9-29-LT-XD1 | 52.7 | µg/L | 23.5 | |
| BN-9-29-LT-901 | Potassium | SW-846 6010B | 10200 | µg/L | BN-9-29-LT-XD1 | 7350 | µg/L | **32.5** | **J** |
| BN-9-29-LT-901 | Silver | SW-846 6010B | 1.2 | µg/L | BN-9-29-LT-XD1 | 1.7 | µg/L | **34.5** | **J** |
| BN-9-29-LT-901 | Sodium | SW-846 6010B | 32500 | µg/L | BN-9-29-LT-XD1 | 30500 | µg/L | 6.3 | |
| BN-9-29-LT-901 | Vanadium | SW-846 6010B | 136 | µg/L | BN-9-29-LT-XD1 | 101 | µg/L | 29.5 | |
| BN-9-29-LT-901 | Zinc | SW-846 6010B | 898 | µg/L | BN-9-29-LT-XD1 | 777 | µg/L | 14.4 | |

The field duplicates were considered to be in agreement and field precision was acceptable with the exception of the eight compounds which were qualified (J) due to the high RPD values.

### B.3.2.3 Field Duplicate BN-9-29-Sed-10

One field duplicate set was collected BN-9-29-Sed-10 was identified (site sample) and BN-9-29-Sed-10 (field duplicate). The following table lists the set of field duplicate soil results that are associated with sample delivery group: M63904:

#### B.3.2.3.1 Field Duplicate RPDs

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-10 | Aluminum | SW-846 6010B | 2490 | mg/kg | BN-9-29-SED-XD1 | 2500 | mg/kg | 0.4 | |
| BN-9-29-SED-10 | Arsenic | SW-846 6010B | 0.96 | mg/kg | BN-9-29-SED-XD1 | 0.87 | mg/kg | 9.8 | |
| BN-9-29-SED-10 | Barium | SW-846 6010B | 8.7 | mg/kg | BN-9-29-SED-XD1 | 8.1 | mg/kg | 7.1 | |
| BN-9-29-SED-10 | Beryllium | SW-846 6010B | 0.56 | mg/kg | BN-9-29-SED-XD1 | 0.14 | mg/kg | **120.0** | **J** |
| BN-9-29-SED-10 | Cadmium | SW-846 6010B | 0.057 | mg/kg | BN-9-29-SED-XD1 | 0.041 | mg/kg | 32.7 | |
| BN-9-29-SED-10 | Calcium | SW-846 6010B | 450 | mg/kg | BN-9-29-SED-XD1 | 399 | mg/kg | 12.0 | |
| BN-9-29-SED-10 | Chromium | SW-846 6010B | 4.6 | mg/kg | BN-9-29-SED-XD1 | 6.1 | mg/kg | 28.0 | |
| BN-9-29-SED-10 | Cobalt | SW-846 6010B | 1.6 | mg/kg | BN-9-29-SED-XD1 | 1.5 | mg/kg | 6.5 | |
| BN-9-29-SED-10 | Copper | SW-846 6010B | 5 | mg/kg | BN-9-29-SED-XD1 | 3.9 | mg/kg | 24.7 | |
| BN-9-29-SED-10 | Iron | SW-846 6010B | 3390 | mg/kg | BN-9-29-SED-XD1 | 3340 | mg/kg | 1.5 | |
| BN-9-29-SED-10 | Lead | SW-846 6010B | 9.3 | mg/kg | BN-9-29-SED-XD1 | 8.2 | mg/kg | 12.6 | |
| BN-9-29-SED-10 | Magnesium | SW-846 6010B | 849 | mg/kg | BN-9-29-SED-XD1 | 811 | mg/kg | 4.6 | |
| BN-9-29-SED-10 | Manganese | SW-846 6010B | 44.9 | mg/kg | BN-9-29-SED-XD1 | 44.5 | mg/kg | 0.9 | |
| BN-9-29-SED-10 | Nickel | SW-846 6010B | 4.4 | mg/kg | BN-9-29-SED-XD1 | 4 | mg/kg | 9.5 | |
| BN-9-29-SED-10 | Potassium | SW-846 6010B | 290 | mg/kg | BN-9-29-SED-XD1 | 316 | mg/kg | 8.6 | |
| BN-9-29-SED-10 | Sodium | SW-846 6010B | 143 | mg/kg | BN-9-29-SED-XD1 | 126 | mg/kg | 12.6 | |
| BN-9-29-SED-10 | Vanadium | SW-846 6010B | 6.7 | mg/kg | BN-9-29-SED-XD1 | 6 | mg/kg | 11.0 | |
| BN-9-29-SED-10 | Zinc | SW-846 6010B | 20.8 | mg/kg | BN-9-29-SED-XD1 | 17.9 | mg/kg | 15.0 | |

The field duplicates were considered to be in agreement and field precision was acceptable with the exception of the one compound which was qualified (J) due to the high RPD values.

### B.3.2.4 Field Duplicate BN-9-30-MW227

One field duplicate set was collected from monitoring well BN-9-30-MW227, and were identified as BN-9-30-MW227 (site sample) and BN-9-30-XD3 (field duplicate). The following table lists the set of field duplicate groundwater sample results that are associated with sample delivery group: M64253.

#### B.3.2.4.1 Field Duplicate RPDs

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW227 | cis-1,2-Dichloroethene | SW-846 8260B | 2.7 | µg/L | BN-9-30-MW-XD3 | 2.2 | µg/L | 20.4 | |
| BN-9-30-MW227 | 1,2-Dichloroethene | SW-846 8260B | 2.7 | µg/L | BN-9-30-MW-XD3 | 2.2 | µg/L | 20.4 | |
| BN-9-30-MW227 | Methyl Tert Butyl Ether | SW-846 8260B | 0.43 | µg/L | BN-9-30-MW-XD3 | ND | µg/L | **NC** | **J/UJ** |
| BN-9-30-MW227 | Trichloroethene | SW-846 8260B | 3.1 | µg/L | BN-9-30-MW-XD3 | 2.3 | µg/L | 29.6 | |

The field duplicates were considered to be in agreement and field precision was acceptable with the exception of the one compound which was qualified (UJ/J) due to the RPD was not calculated.

### B.3.2.5 Field Duplicate BN-9-30-MW70

One field duplicate set was collected from monitoring well BN-9-30-MW70, and were identified as BN-9-30-MW70 (site sample) and BN-9-30-XD1 (field duplicate). The following table lists the set of field duplicate groundwater sample results that are associated with sample delivery group: M64253.

#### B.3.2.5.1 Field Duplicate RPDs

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-M70 | Barium | SW-846 6010B | 14.6 | µg/L | BN-9-30-MW-XD1 | 14.7 | µg/L | 0.7 | |
| BN-9-30-M70 | Beryllium | SW-846 6010B | 0.28 | µg/L | BN-9-30-MW-XD1 | ND | µg/L | **NC** | **J/UJ** |
| BN-9-30-M70 | Calcium | SW-846 6010B | 20000 | µg/L | BN-9-30-MW-XD1 | 19600 | µg/L | 2.0 | |
| BN-9-30-M70 | Chromium | SW-846 6010B | 0.64 | µg/L | BN-9-30-MW-XD1 | 1 | µg/L | **43.9** | **J** |
| BN-9-30-M70 | Cobalt | SW-846 6010B | 2.4 | µg/L | BN-9-30-MW-XD1 | 2.3 | µg/L | 4.3 | |
| BN-9-30-M70 | Copper | SW-846 6010B | 1 | µg/L | BN-9-30-MW-XD1 | 1.3 | µg/L | 26.1 | |
| BN-9-30-M70 | Iron | SW-846 6010B | 18.8 | µg/L | BN-9-30-MW-XD1 | 12.9 | µg/L | **37.2** | **J** |
| BN-9-30-M70 | Magnesium | SW-846 6010B | 1870 | µg/L | BN-9-30-MW-XD1 | 1850 | µg/L | 1.1 | |
| BN-9-30-M70 | Manganese | SW-846 6010B | 48.8 | µg/L | BN-9-30-MW-XD1 | 75 | µg/L | **42.3** | **J** |
| BN-9-30-M70 | Mercury | SW-846 7470A | ND | µg/L | BN-9-30-MW-XD1 | 0.026 | µg/L | **NC** | **UJ/J** |
| BN-9-30-M70 | Nickel | SW-846 6010B | 1.3 | µg/L | BN-9-30-MW-XD1 | 1.3 | µg/L | 0.0 | |
| BN-9-30-M70 | Potassium | SW-846 6010B | 618 | µg/L | BN-9-30-MW-XD1 | 622 | µg/L | 0.6 | |
| BN-9-30-M70 | Sodium | SW-846 6010B | 12800 | µg/L | BN-9-30-MW-XD1 | 13000 | µg/L | 1.6 | |
| BN-9-30-M70 | Vanadium | SW-846 6010B | 0.64 | µg/L | BN-9-30-MW-XD1 | ND | µg/L | **NC** | **J/UJ** |
| BN-9-30-M70 | Zinc | SW-846 6010B | 5.3 | µg/L | BN-9-30-MW-XD1 | 5.8 | µg/L | 9.0 | |

### B.3.3 FIELD ACCURACY EVALUATION

Procedures for assessment of field accuracy are detailed in this section.

#### B.3.3.1 Evaluating Rinsate Blanks for Field Accuracy

Procedures for qualifying field samples for rinsate blank results are summarized below. Equipment blank qualifications are specific to the samples for which a rinsate blank is considered representative. Analysis of a rinsate blank collected from non-dedicated and/or non-disposable equipment is used to evaluate potential field cross contamination.

- Rinsate blank results should not have any analyte detections greater than the MRL.

- Analytes detected in field samples are evaluated at five or ten times (for common laboratory cross-contaminants) the detections of those analytes the associated rinsate blank.

- Field samples associated with the rinsate blank, which have detected analyte levels less than five or ten times (for common laboratory cross-contaminants) the corresponding analyte level in the rinsate blank, are qualified as non-detect (U) for that analyte.

- Field samples associated with the rinsate blank, which have detected analyte levels greater than five or ten times (for common laboratory cross-contaminants) the corresponding analyte level in the rinsate blank, are not qualified.

#### B.3.3.2 Evaluating Trip Blanks for Field Accuracy

Procedures for qualifying field samples for trip blank results are summarized below. Trip blank qualifications are specific to the samples for which a trip blank is considered representative. VOC analysis of a trip blank shipped with sample shipment coolers containing VOC samples is performed to assess any VOC contamination introduced during sample handling and shipping.

- Trip blank results should not have any analyte detections greater than the MRL.

- Compounds detected in VOC field samples are evaluated at a five or ten times (for common lab cross contaminants) the detections in the associated trip blank.

- VOC field samples associated with the trip blank, which have detected compound levels less than five or ten times (for common lab cross contaminants) the

corresponding level in the trip blank, are qualified as non-detect (U) that compound.

- VOC field samples associated with the trip blank, which have detected compound levels greater than five or ten times (for common lab cross contaminants) the corresponding level in the trip blank, are not qualified.

#### B.3.3.3 Field Blank / Source Water Blank

Source Blank (BN-9-29-Source1) associated with SDG: 63904 was free of contaminations. No qualifications were required.

### B.3.4 FIELD ACCURACY ASSESSMENT.

Project-specific assessment of field accuracy is detailed in this section.

#### B.3.4.1 Volatile Organic Compounds

Field accuracy assessment for volatile organic compounds is detailed in this section.

##### B.3.4.1.1 Rinsate Blanks

Rinsate blank (BN-9-29-Rinsate1) associated with SDG: M63904 was free of contamination.

##### B.3.4.1.2 Trip Blanks

Trip Blank (BN-9-29-Trip1) associated with SDG: M63904 was free of contaminations. No qualifications were required.

Trip Blank (BN-9-30-QT1) associated with SDG: M64253 was free of contaminations. No qualifications were required.

## B.4 OVERALL EVALUATION OF DATA AND USABILITY RECOMMENDATION:

The following is a summary table of the findings for the data quality review performed and discussed in detail in this appendix:

| DATA QUALITY REVIEW | | HOLDING TIME | FIELD/METHOD | PRECISION | | ACCURACY | | | COMPLETENESS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Blank Contamination | Lab | Field | Surrogate | MS/MSD | LCS | Analytical | Field |
| Aqueous | VOCs | √ | √ | √ | √ | √ | UJ | UJ | 100% | 100% |
| | SVOC | √ | √ | √ | √ | √ | UJ | √ | 100% | 100% |
| | MEDE P-DRO | √ | √ | √ | √ | √ | √ | √ | 100% | 100% |
| | Metals | √ | √ | J/UJ | J | N/A | √ | √ | 100% | 100% |
| Sediment | VOCs | √ | √ | √ | √ | √ | √ | √ | 100% | 100% |
| | Metals | √ | √ | J | √ | N/A | √ | √ | 100% | 100% |

| | | |
|---|---|---|
| Note: | VOC = | Volatile Organic Compound. |
| | √ = | The data are usable as reported based on the data quality review of this quality measurement. |
| | B = | The data have been affected by field blank/laboratory contamination; false-positives may exist. |
| | UJ = | The analyte was not detected above the sample reporting limit, and the reporting limit is approximate |
| | J = | The data are usable; however, some analyte concentrations should be considered estimates of the true concentrations. |
| | R = | Some of the analytes are considered unusable due to quality control criteria. |
| | N/A = | The quality measurement does not apply to this matrix or analytical methodology. |

## B.5 COMPLETENESS:

Analytes were reviewed for method and QAPP compliance, and the data were determined to be usable as qualified. No apparent matrix bias for constituents of concern. No data were rejected for this sampling event. Therefore, the percent analytical completeness for field samples is 100 percent. The planned number of field samples and the corresponding quality control samples (duplicate) was collected, resulting in a percent field completeness of 100 percent.

## B.6 METHOD DETECTION LIMITS FOR AQUEOUS SAMPLES:

The following table provides the MDLs for aqueous and sediment samples. The MDL represents the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero.

Values were compared to the Maximum Exposure Guidelines [3] (MEGs) for the State of Maine by the validator, and the MDLs for these compounds are less than the MEGs

| Analytical Method | Matrix | Analyte | MDL | Units |
|---|---|---|---|---|
| SW8468260B | Aqueous | Acetone | 2.8 | ug/l |
| SW8468260B | Aqueous | Benzene | 0.23 | ug/l |
| SW8468260B | Aqueous | Bromodichloromethane | 0.26 | ug/l |
| SW8468260B | Aqueous | Bromoform | 0.47 | ug/l |
| SW8468260B | Aqueous | Bromomethane | 0.61 | ug/l |
| SW8468260B | Aqueous | 2-Butanone (MEK) | 1.8 | ug/l |
| SW8468260B | Aqueous | Carbon disulfide | 0.41 | ug/l |
| SW8468260B | Aqueous | Carbon tetrachloride | 0.21 | ug/l |
| SW8468260B | Aqueous | Chlorobenzene | 0.32 | ug/l |
| SW8468260B | Aqueous | Chloroethane | 0.65 | ug/l |
| SW8468260B | Aqueous | Chloroform | 0.18 | ug/l |
| SW8468260B | Aqueous | Chloromethane | 0.20 | ug/l |
| SW8468260B | Aqueous | Dibromochloromethane | 0.34 | ug/l |
| SW8468260B | Aqueous | 1,2-Dichlorobenzene | 0.29 | ug/l |
| SW8468260B | Aqueous | 1,3-Dichlorobenzene | 0.18 | ug/l |
| SW8468260B | Aqueous | 1,4-Dichlorobenzene | 0.20 | ug/l |
| SW8468260B | Aqueous | 1,1-Dichloroethane | 0.18 | ug/l |
| SW8468260B | Aqueous | 1,2-Dichloroethane | 0.20 | ug/l |
| SW8468260B | Aqueous | 1,1-Dichloroethene | 0.35 | ug/l |
| SW8468260B | Aqueous | cis-1,2-Dichloroethene | 0.36 | ug/l |
| SW8468260B | Aqueous | trans-1,2-Dichloroethene | 0.40 | ug/l |
| SW8468260B | Aqueous | 1,2-Dichloroethene (total) | 0.36 | ug/l |
| SW8468260B | Aqueous | 1,2-Dichloropropane | 0.28 | ug/l |
| SW8468260B | Aqueous | cis-1,3-Dichloropropene | 0.30 | ug/l |
| SW8468260B | Aqueous | trans-1,3-Dichloropropene | 0.31 | ug/l |
| SW8468260B | Aqueous | Ethylbenzene | 0.21 | ug/l |
| SW8468260B | Aqueous | 2-Hexanone | 0.76 | ug/l |
| SW8468260B | Aqueous | Methyl Tert Butyl Ether | 0.14 | ug/l |
| SW8468260B | Aqueous | 4-Methyl-2-pentanone (MIBK) | 0.50 | ug/l |
| SW8468260B | Aqueous | Methylene chloride | 0.27 | ug/l |
| SW8468260B | Aqueous | Styrene | 0.23 | ug/l |
| SW8468260B | Aqueous | 1,1,2,2-Tetrachloroethane | 0.22 | ug/l |
| SW8468260B | Aqueous | Tetrachloroethene | 0.34 | ug/l |
| SW8468260B | Aqueous | Toluene | 0.24 | ug/l |
| SW8468260B | Aqueous | 1,1,1-Trichloroethane | 0.21 | ug/l |
| SW8468260B | Aqueous | 1,1,2-Trichloroethane | 0.32 | ug/l |
| SW8468260B | Aqueous | Trichloroethene | 0.30 | ug/l |
| SW8468260B | Aqueous | Trichlorofluoromethane | 0.31 | ug/l |
| SW8468260B | Aqueous | Vinyl chloride | 0.24 | ug/l |
| SW8468260B | Aqueous | Xylene (total) | 0.37 | ug/l |

| Analytical Method | Matrix | Analyte | MDL | Units |
|---|---|---|---|---|
| SW8468260B | Solids | Acetone | 160 | ug/kg |
| SW8468260B | Solids | Benzene | 8.8 | ug/kg |
| SW8468260B | Solids | Bromodichloromethane | 9.3 | ug/kg |
| SW8468260B | Solids | Bromoform | 19 | ug/kg |
| SW8468260B | Solids | Bromomethane | 23 | ug/kg |
| SW8468260B | Solids | 2-Butanone (MEK) | 68 | ug/kg |
| SW8468260B | Solids | Carbon disulfide | 24 | ug/kg |
| SW8468260B | Solids | Carbon tetrachloride | 7.9 | ug/kg |
| SW8468260B | Solids | Chlorobenzene | 8.0 | ug/kg |
| SW8468260B | Solids | Chloroethane | 13 | ug/kg |
| SW8468260B | Solids | Chloroform | 31 | ug/kg |
| SW8468260B | Solids | Chloromethane | 15 | ug/kg |
| SW8468260B | Solids | Dibromochloromethane | 14 | ug/kg |
| SW8468260B | Solids | 1,2-Dichlorobenzene | 8.7 | ug/kg |
| SW8468260B | Solids | 1,3-Dichlorobenzene | 18 | ug/kg |
| SW8468260B | Solids | 1,4-Dichlorobenzene | 22 | ug/kg |
| SW8468260B | Solids | 1,1-Dichloroethane | 13 | ug/kg |
| SW8468260B | Solids | 1,2-Dichloroethane | 6.6 | ug/kg |
| SW8468260B | Solids | 1,1-Dichloroethene | 16 | ug/kg |
| SW8468260B | Solids | 1,2-Dichloroethene (total) | 100 | ug/kg |
| SW8468260B | Solids | 1,2-Dichloropropane | 11 | ug/kg |
| SW8468260B | Solids | cis-1,3-Dichloropropene | 9.0 | ug/kg |
| SW8468260B | Solids | trans-1,3-Dichloropropene | 7.8 | ug/kg |
| SW8468260B | Solids | Ethylbenzene | 7.9 | ug/kg |
| SW8468260B | Solids | Hexachlorobutadiene | 25 | ug/kg |
| SW8468260B | Solids | 2-Hexanone | 79 | ug/kg |
| SW8468260B | Solids | 4-Methyl-2-pentanone (MIBK) | 33 | ug/kg |
| SW8468260B | Solids | Methylene chloride | 24 | ug/kg |
| SW8468260B | Solids | Styrene | 30 | ug/kg |
| SW8468260B | Solids | 1,1,2,2-Tetrachloroethane | 20 | ug/kg |
| SW8468260B | Solids | Tetrachloroethene | 12 | ug/kg |
| SW8468260B | Solids | Toluene | 8.3 | ug/kg |
| SW8468260B | Solids | 1,1,1-Trichloroethane | 8.2 | ug/kg |
| SW8468260B | Solids | 1,1,2-Trichloroethane | 14 | ug/kg |
| SW8468260B | Solids | Trichloroethene | 13 | ug/kg |
| SW8468260B | Solids | Vinyl chloride | 11 | ug/kg |
| SW8468260B | Solids | Xylene (total) | 8.9 | ug/kg |

| Analytical Method | Matrix | Analyte | MDL | Units |
|---|---|---|---|---|
| SW8468270C | Aqueous | 2-Chlorophenol | 0.29 | ug/l |
| SW8468270C | Aqueous | 4-Chloro-3-methyl phenol | 0.43 | ug/l |
| SW8468270C | Aqueous | 2,4-Dichlorophenol | 0.49 | ug/l |
| SW8468270C | Aqueous | 2,4-Dimethylphenol | 0.83 | ug/l |
| SW8468270C | Aqueous | 2,4-Dinitrophenol | 1.6 | ug/l |
| SW8468270C | Aqueous | 4,6-Dinitro-o-cresol | 0.30 | ug/l |
| SW8468270C | Aqueous | 2-Methylphenol | 0.51 | ug/l |
| SW8468270C | Aqueous | 3&4-Methylphenol | 0.67 | ug/l |
| SW8468270C | Aqueous | 2-Nitrophenol | 0.53 | ug/l |
| SW8468270C | Aqueous | 4-Nitrophenol | 1.0 | ug/l |
| SW8468270C | Aqueous | Pentachlorophenol | 1.7 | ug/l |
| SW8468270C | Aqueous | Phenol | 0.31 | ug/l |
| SW8468270C | Aqueous | 2,4,5-Trichlorophenol | 1.8 | ug/l |
| SW8468270C | Aqueous | 2,4,6-Trichlorophenol | 0.37 | ug/l |
| SW8468270C | Aqueous | Acenaphthene | 0.23 | ug/l |
| SW8468270C | Aqueous | Acenaphthylene | 0.19 | ug/l |
| SW8468270C | Aqueous | Anthracene | 0.16 | ug/l |
| SW8468270C | Aqueous | Benzo(a)anthracene | 0.28 | ug/l |
| SW8468270C | Aqueous | Benzo(a)pyrene | 0.30 | ug/l |
| SW8468270C | Aqueous | Benzo(b)fluoranthene | 0.34 | ug/l |
| SW8468270C | Aqueous | Benzo(g,h,i)perylene | 0.80 | ug/l |
| SW8468270C | Aqueous | Benzo(k)fluoranthene | 0.45 | ug/l |
| SW8468270C | Aqueous | 4-Bromophenyl phenyl ether | 0.23 | ug/l |
| SW8468270C | Aqueous | Butyl benzyl phthalate | 0.23 | ug/l |
| SW8468270C | Aqueous | 2-Chloronaphthalene | 0.20 | ug/l |
| SW8468270C | Aqueous | 4-Chloroaniline | 0.79 | ug/l |
| SW8468270C | Aqueous | Carbazole | 0.86 | ug/l |
| SW8468270C | Aqueous | Chrysene | 0.32 | ug/l |
| SW8468270C | Aqueous | bis(2-Chloroethoxy)methane | 0.21 | ug/l |
| SW8468270C | Aqueous | bis(2-Chloroethyl)ether | 0.78 | ug/l |
| SW8468270C | Aqueous | bis(2-Chloroisopropyl)ether | 0.22 | ug/l |
| SW8468270C | Aqueous | 4-Chlorophenyl phenyl ether | 0.29 | ug/l |
| SW8468270C | Aqueous | 1,2-Dichlorobenzene | 0.21 | ug/l |
| SW8468270C | Aqueous | 1,3-Dichlorobenzene | 0.85 | ug/l |
| SW8468270C | Aqueous | 1,4-Dichlorobenzene | 0.25 | ug/l |
| SW8468270C | Aqueous | 2,4-Dinitrotoluene | 0.20 | ug/l |
| SW8468270C | Aqueous | 2,6-Dinitrotoluene | 0.44 | ug/l |
| SW8468270C | Aqueous | 3,3'-Dichlorobenzidine | 0.71 | ug/l |
| SW8468270C | Aqueous | Dibenzo(a,h)anthracene | 0.67 | ug/l |
| SW8468270C | Aqueous | Dibenzofuran | 0.79 | ug/l |
| SW8468270C | Aqueous | Di-n-butyl phthalate | 0.17 | ug/l |

| | | | | |
|---|---|---|---|---|
| SW8468270C | Aqueous | Di-n-octyl phthalate | 0.22 | ug/l |
| SW8468270C | Aqueous | Diethyl phthalate | 0.20 | ug/l |
| SW8468270C | Aqueous | Dimethyl phthalate | 0.13 | ug/l |
| SW8468270C | Aqueous | bis(2-Ethylhexyl)phthalate | 2.3 | ug/l |
| SW8468270C | Aqueous | Fluoranthene | 0.19 | ug/l |
| SW8468270C | Aqueous | Fluorene | 0.21 | ug/l |
| SW8468270C | Aqueous | Hexachlorobenzene | 0.27 | ug/l |
| SW8468270C | Aqueous | Hexachlorobutadiene | 0.29 | ug/l |
| SW8468270C | Aqueous | Hexachlorocyclopentadiene | 0.28 | ug/l |
| SW8468270C | Aqueous | Hexachloroethane | 0.26 | ug/l |
| SW8468270C | Aqueous | Indeno(1,2,3-cd)pyrene | 0.44 | ug/l |
| SW8468270C | Aqueous | Isophorone | 0.25 | ug/l |
| SW8468270C | Aqueous | 2-Methylnaphthalene | 0.21 | ug/l |
| SW8468270C | Aqueous | 2-Nitroaniline | 0.23 | ug/l |
| SW8468270C | Aqueous | 3-Nitroaniline | 0.24 | ug/l |
| SW8468270C | Aqueous | 4-Nitroaniline | 0.22 | ug/l |
| SW8468270C | Aqueous | Naphthalene | 0.35 | ug/l |
| SW8468270C | Aqueous | Nitrobenzene | 0.40 | ug/l |
| SW8468270C | Aqueous | N-Nitroso-di-n-propylamine | 0.89 | ug/l |
| SW8468270C | Aqueous | N-Nitrosodiphenylamine | 0.23 | ug/l |
| SW8468270C | Aqueous | Phenanthrene | 0.92 | ug/l |
| SW8468270C | Aqueous | Pyrene | 0.34 | ug/l |
| SW8468270C | Aqueous | 1,2,4-Trichlorobenzene | 0.28 | ug/l |

| Analytical Method | Matrix | Analyte | MDL | Units |
|---|---|---|---|---|
| ME41259/95 | Aqueous | ME-DRO (C10-C28) | 0.050 | mg/l |

| Analytical Method | Matrix | Analyte | MDL | Units |
|---|---|---|---|---|
| SW8466010B | Aqueous | Aluminum | 19.0 | ug/l |
| SW8466010B | Aqueous | Barium | 0.86 | ug/l |
| SW8466010B | Aqueous | Beryllium | 0.25 | ug/l |
| SW8466010B | Aqueous | Cadmium | 0.22 | ug/l |
| SW8466010B | Aqueous | Calcium | 6.6 | ug/l |
| SW8466010B | Aqueous | Chromium | 0.30 | ug/l |
| SW8466010B | Aqueous | Cobalt | 0.61 | ug/l |
| SW8466010B | Aqueous | Copper | 0.81 | ug/l |
| SW8466010B | Aqueous | Iron | 6.3 | ug/l |
| SW8466010B | Aqueous | Magnesium | 6.6 | ug/l |
| SW8466010B | Aqueous | Manganese | 0.24 | ug/l |
| SW8466010B | Aqueous | Nickel | 0.47 | ug/l |
| SW8466010B | Aqueous | Potassium | 5.5 | ug/l |
| SW8466010B | Aqueous | Silver | 0.31 | ug/l |

| | | | | |
|---|---|---|---|---|
| SW8466010B | Aqueous | Sodium | 80.0 | ug/l |
| SW8466010B | Aqueous | Vanadium | 0.35 | ug/l |
| SW8466010B | Aqueous | Zinc | 0.36 | ug/l |
| SW8466020 | Aqueous | Arsenic | 1.9 | ug/l |
| SW8466020 | Aqueous | Lead | 0.26 | ug/l |
| SW8466020 | Aqueous | Thallium | 0.046 | ug/l |
| SW8466020 | Aqueous | Antimony | 0.58 | ug/l |
| SW8466020 | Aqueous | Selenium | 0.88 | ug/l |
| SW8467470A | Aqueous | Mercury | 0.018 | ug/l |

| Analytical Method | Matrix | Analyte | MDL | Units |
|---|---|---|---|---|
| SW8466010B | Solids | Aluminum | 1.9 | mg/kg |
| SW8466010B | Solids | Antimony | 0.14 | mg/kg |
| SW8466010B | Solids | Arsenic | 0.074 | mg/kg |
| SW8466010B | Solids | Barium | 0.086 | mg/kg |
| SW8466010B | Solids | Beryllium | 0.025 | mg/kg |
| SW8466010B | Solids | Cadmium | 0.022 | mg/kg |
| SW8466010B | Solids | Calcium | 0.66 | mg/kg |
| SW8466010B | Solids | Chromium | 0.030 | mg/kg |
| SW8466010B | Solids | Cobalt | 0.061 | mg/kg |
| SW8466010B | Solids | Copper | 0.081 | mg/kg |
| SW8466010B | Solids | Iron | 0.63 | mg/kg |
| SW8466010B | Solids | Lead | 0.092 | mg/kg |
| SW8466010B | Solids | Magnesium | 0.66 | mg/kg |
| SW8466010B | Solids | Manganese | 0.024 | mg/kg |
| SW8466010B | Solids | Nickel | 0.047 | mg/kg |
| SW8466010B | Solids | Potassium | 0.55 | mg/kg |
| SW8466010B | Solids | Selenium | 0.10 | mg/kg |
| SW8466010B | Solids | Silver | 0.031 | mg/kg |
| SW8466010B | Solids | Sodium | 8.0 | mg/kg |
| SW8466010B | Solids | Thallium | 0.27 | mg/kg |
| SW8466010B | Solids | Vanadium | 0.035 | mg/kg |
| SW8466010B | Solids | Zinc | 0.036 | mg/kg |
| SW8467470A | Solids | Mercury | 0.0030 | mg/kg |

3 Maine Department of Human Services, Environmental and Occupational Health Program, Center for Disease Control, "Maine CDC Maximum Exposure Guidelines (MEGs) for drinking water," (August 7, 2006).

# APPENDIX C

Analytical Report Form I Data Sheets

**DATA VALIDATION MEMORANDUM**
**NAS BRUNSWICK SITE 09**
**DATA VALIDATION MEMORANDUM**
**APRIL 2007 SAMPLING ROUND 30 (SDG: M63904)**

| | |
|---|---|
| **TO:** | MR. JACKSON KIKER, ECC SENIOR CHEMIST, MARLBOROUGH, MA |
| **FROM:** | SAMIR A. NAGUIB, H&S ENVIRONMENTAL SENIOR QUALITY ASSURANCE CHEMIST, FRAMINGHAM, MA |
| **SUBJECT:** | NAS BRUNSWICK SITE 09 |
| **CLIENT NUMBER:** | 5700.007.015.440 |
| **DATE:** | JUNE 21, 2007 |

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 Inorganic Analysis (1988), and

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

The data were assessed against the MPC listed in the approved NASB Basewide QAPP (January 2006). The QAPP MPC and 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.

Presented in this Master Data Validation Memorandum are the data validation reports for the Sample Data Groups (SDGs) 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 Pesticides 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 ACCUTEST Laboratories, Marlborough, MA and ACCUTEST New Jersey. Sample Matrix: Ground Water (GW) and Sediment

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 | Trace Metals |
|---|---|---|---|
| BN-9-29-SW-10 | M63904-1 | X | X |
| BN-9-29-SED-10 | M63904-2 | X | X |
| BN-9-29-LT-901 | M63904-3 | X | X |
| BN-9-29-SW-XD1 | M63904-4 | X | X |
| BN-9-29-LT-XD1 | M63904-5 | X | X |
| BN-9-29-SED-XD1 | M63904-6 | X | X |
| BN-9-29-RINSATE1 | M63904-7 | X | |
| BN-9-29-SOURCE1 | M63904-8 | X | |
| BN-9-29-TRIP1 (Methanol) | M63904-9 | X | |
| BN-9-29-TRIP1 | M63904-9A | 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 |

| Acronym / Abbreviation | Definition |
|---|---|
| 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 | Decachlorobiphenly |
| 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 |
| MDL | Method detection limit |
| MeCl | Methylene chloride |
| MS | Matrix spike |
| MSD | Matrix spike duplicate |

| Acronym / Abbreviation | Definition |
|---|---|
| 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: ACCUTEST Laboratories
SDG: M63904
EPA-NE DV TIER LEVEL: II
SITE NAME: NAS Brunswick-Site 09

# of SAMPLES/MATRIX: 2 groundwater, 2- Sediment 3 Field Duplicate, 1 Rinsate and 2 Trip Blank
VALIDATION CONTRACTOR: H&S Environmental
VALIDATOR'S NAME: Samir A. Naguib
DV Completion Date: June 21 , 2007
Date Sampled: April 4, 2007

## ANALYTICAL DATA QUALITY SUMMARY

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

**VOC**

1. Continuing Calibration Verification (CCV):
   1.1 %D for Methylene Chloride and 2- Hexanone were outside the QC limits. Samples 2 and 9A were qualified (UJ).
   1.2 %D for Xylene (Total) and Styrene were outside the QC limits. Sample 6 was qualified (UJ).

2. Matrix Spike (MS)/Matrix Spike Duplicate (MSD):
   MS and MSD were performed on sample 1. All %REC were within the QC limits with the following exception:
   2.1 Methylene chloride %REC in both MS and MSD was below the QC limits. The compound was not detected in the native sample. The non-detected result was qualified as estimated (UJ).

**Trace Metals:**

1. Laboratory Duplicate:
   1.1 Laboratory Duplicate was performed on sample 3. RPD for following elements were >20%: Aluminum, Chromium, Copper, Iron, Magnesium, Manganese, Vanadium and Zinc. All positive results were qualified as estimated (J) in sample 3.

   1.2 Laboratory Duplicate was performed on sample 2. RPD for following elements were >20%: Zinc. All positive results were qualified as estimated (J) in samples 2 and 6.

2. Field Duplicate:
   2.1 Sample BN-9-29-SW-XD1 was collected as field duplicate for sample BN-9-29-SW-10. Cr qualified as estimated (J) in both samples
   2.2 Sample BN-9-29-LT-XD1 was collected as field duplicate for sample BN-9-29-LT-901. Al, As, Ba, Be, Ca, Fe, K and Ag were qualified as estimated (J) in both samples.
   2.3 Sample BN-9-29-SED-XD1 was collected as field duplicate for sample BN-9-29-SED-10. Be was qualified as estimated (J) in both samples.

3. Continuing Calibration Blanks (CCB):

   3.1 Thallium (CCB9-04/18/2007): 0.23ug/L (1.15ug/L): U qualifier was added to the following samples: 1, 3 and 5.

4. Serial Dilution:

4.1 Serial Dilution was performed on sample BN-9-29-SW-10 (1). K RPD was 22.2% outside the QC limits. All positive results in samples 1,4 and 5 were qualified as estimated (J).

4.2 Serial Dilution was performed on sample BN-9-29-LT-901(3). K RPD was 12.7% outside the QC limits. All positive result in sample 3 was qualified as estimated (J).

4.3 Serial Dilution was performed on sample BN-9-29-SED-10 (2). K RPD was 23.6% outside the QC limits. All positive results in samples 2 and 6 were qualified as estimated (J).

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007.015.440**

**VOC's: SW-846 8260B**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| Data Validation Level | Matrix | Preservation | Temperature Sample Receipt | Laboratory | SDG Number |
|---|---|---|---|---|---|
| Tier II | Ground Water<br><br>Sediment | HCl<br><br>- | Three (3) sample coolers were received by ACCUTEST on 04/06/2007 at 2.3, 3.0 and 1.4°C | ACCUTEST Laboratories, Marlborough, MA 01752 | M63904 |

**Field Identification of Samples Evaluated:**

| Field ID | Lab Sample Number |
|---|---|
| BN-9-29-SW-10 | M63904-1 |
| BN-9-29-SED-10 | M63904-2 |
| BN-9-29-LT-901 | M63904-3 |
| BN-9-29-SW-XD1 | M63904-4 (Field Duplicate for M63904-1) |
| BN-9-29-LT-XD1 | M63904-5 (Field Duplicate for M63904-3) |
| BN-9-29-SED-XD1 | M63904-6 (Field Duplicate for M63904-2) |
| BN-9-29-RINSATE1 | M63904-7 |
| BN-9-29-SOURCE1 | M63904-8 |
| BN-9-29-TRIP1 (Methanol) | M63904-9 |
| BN-9-29-TRIP1 | M63904-9A |

*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: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007.015.440**

**VOC's: SW-846 8260B**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| COC, Sample Delivery Group Form. | 1)Unbroken custody (accept or if broken R)<br>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) | Cooler temperatures < 6 °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 samples qualified. | X | - | |
| Holding Time | 1) 14 Days to analysis, if preserved<br>2) J –detects, UJ or R –nondetects (function of time)<br>3) *transcription errors | Sample Date: 04/04/2007<br>All samples analyzed within holding times. No samples qualified. | X | - | |
| % Solids Check (SOLIDS) | 30%<Solids: if no sample weight adjustment made.<br>1) <10% R entire sample<br>2) 10%.> and <30%; J-detects, NDs -R | %Solids for all Sediment samples were >30%. No qualifications were required. | X | - | |
| Trip Blank (TB) | 1) < 5x (<10x common) contaminants for aq samples-<br>2) TGT analytes <Lab QL (contact lab)<br>-for soils indicate TB (X rules apply to raw data)<br>4) MeCl & Acetone < 5<br>5) >RL report sample level U<br>6) <RL report PQL as U | 1. BN-9-29-TRIP1 (9) and BN-9-29-TRIP1 (9A) were free of contaminations. No qualifications were required. | X | - | |
| Equipment Blank (EB) | 1) < 5x (<10x common) contaminants for aqueous samples-<br>2) TGT analytes <Lab QL (contact lab)<br>-for soils indicate TB (X rules don't apply)<br>3) MeCl & Acetone < 5<br>*Check IS area (10% of them)<br>* recalculate surrogate (%R – 10 % of them) | 1. BN-9-29-RINSATE 1 (7) 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<br>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 | | |
| *TICs (if reported) | 1) *verify library search for samples and blanks<br>2) verify TICs were not misreported compounds (different fraction or miss in search)<br>3) All TICs – J estimated<br>4) * verify blanks do not contain TIC peaks<br>5) * check TIC assignment spectra to STD spectra<br>6) *review blank and Samples for common lab contaminants | None Reported/not evaluated | - | - | |

**H&S Environmental Region I Data Review Worksheet** **VOC's: SW-846 8260B**
**Project Location: NAS Brunswick** **Review Criteria: Region I Tier II**
**Project Name: Site 09** **Guidance and QAPP**
**ECC Job No.: 5700.007.015.440** **(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Surrogates | 1. Refer to Table 13-1-S9 in the LTMP (01/06) for water and soil<br>*check raw data for surrogated (recalculate 10% of them).<br>*Transcription errors<br>Qualification: >UCL J –detects,<br>%R<10% J –detects, R –NDs,<br>%R >10% but <70% J-detects, UJ NDs | 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<br>2)TGT analytes <Lab QL | 1. All Method Blanks associated with water and soil samples were free of contaminations. No qualifications were required. | X | - | |
| Laboratory Control Sample (LCS) Recovery | 1) LCS/LCSD acceptance limits Table 7-3 (LTMP 01/06)<br>2) 10% and <LCL% J detects, UJ –Nods<br>3) >UCL% J detects <10% R NDs, J-detects | 1. All %REC's were within the QC limits. No qualifications were required. | X | - | |
| Matrix Spike/ Matrix Spike Duplicate (MS/MSD) Recovery | 1) MS/MSD acceptance limits Table 7-3 (LTMP 01/06)<br>2) if MS > 4X native levels<br>Qualification of MS sample: <10% J detects, R NDs<br>>10% and <LCL% J detects, UJ -NDs<br>>UCL% J detects<br>3) *Recalculate the concentrations for one compound in the MS/MSD<br>* Recalculate the %R (within 10% of lab) | 1. MS and MSD were performed on sample BN-9-29-SED-10(2). All %REC's were within the QC limits. No qualifications were required.<br><br>2. MS and MSD were performed on sample BN-9-29-SW-10(1). All %REC were within the QC limits with the following exception:<br>2.1 Methylene chloride %REC in both MS and MSD was below the QC limits. The compound was not detected in the native sample and qualified as estimated (UJ).<br><br>3. MS and MSD were performed on sample BN-9-29-LT-901(3). All %REC's were within the QC limits. No qualifications were required. | X | Methylene chloride in sample 01 qualified UJ. | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| MS/MSD RPD | RPD ≤20% (aqueous) and ≤40% (Soils) J – detects in MS sample<br>UJ-non detects<br>* recalculate RPD | 1. All MS/MSD RPD for sample BN-9-29-SED-10 (2) were within the QC limits.<br><br>2. All MS/MSD RPD for sample BN-9-29-SW-10(1) were within the QC limits.<br><br>3. All MS/MSD RPD for sample BN-9-29-LT-901(3) were within the QC limits.<br><br>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)<br>2) If one >PQL, other ND, J-detections, UJ non-detect<br>3) Other conditions use judgement<br>4) Determine RPD for detects only.<br>*Recalculate the concentrations for one compound and the PQL | 1. Sample BN-9-29-SW-XD1 was collected as field duplicate for sample BN-9-29-SW-10. Both samples were reported as non-detect.<br><br>2. Sample BN-9-29-LT-XD1 was collected as field duplicate for sample BN-9-29-LT-901. Both samples were reported as non-detect.<br><br>3. Sample BN-9-29-SED-XD1 was collected as field duplicate for sample BN-9-29-SED-10. Both samples were reported as non-detect.<br><br>No qualifications were required. | X | - | |
| *MDL Study | 1) *In accordance with 40CFR – seven replicates %RSD < 20%<br>2) * IS and retention times within method requirements<br>5) * performed annually<br>6) *MDL is at least ½ of PQL<br>7) *tgt and surrogate 80-120% R<br>8) *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<br>3) RRT<0.06 (30 sec)<br>4) IS>100% J-detects<br>5) IS<20%CCV NDs – R<br>6) IS>20%CCV <50%CCV NDs – UJ<br>7) *check for IS transcription errors | All IS %R and RTs are within Method limits. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Sensitivity | 1) MDL study – 7 replicates (40 CFR)<br>2) Surrogates %in control limits.<br>3) %R <10 ND- (R) , J- detects<br>4) 10%> but <LCL% , judgement<br>5) %R>UCL% J-detects<br>4) QC, IS, RRT meet criteria,<br>5) %RSD < 20%<br>6) MDL< MQL (3x less ideal)<br>7) Lab fortitied blank (see VOA/SV Part II – section X).<br>8) *Check and recalculate %RSDs and %R for three compounds (with 10% of lab)<br><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)<br>2) *Recalculate one detection and quantitation limit<br>3) *verify concentrations have been adjusted to account for DW, DF,<br>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<br>3) *Matrix effects- MS/MSD, surrogated, PDS.<br>4) *System chromatography- evaluate RRTs, peaks shapes, system impacts on data, baseline shifts.<br>5) *overall system contamination-review all blanks for systemic or sporadic contamination | NA | - | - | |
| *TGT Compound Identification | 1) *Within 0.06 (30 sec) of CCV RRT<br>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.<br>3) *chromatogram: all peaks greater than 10% of nearest IS identified. | NA | - | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Single Blind PE | 1) Qualify associated samples in PES batch PES = ND, Detects J – ND PE analytes in samples, NDs – R<br>6) PES > acceptance criteria – Detects in samples J,<br>7) PES<acceptance criteria – Detects J, NDs –R<br>8) VOA/SV-XI14 other criteria<br>9) *% of PES sample above and below criteria<br>10) *Recalculate concentrations for one tgt compound per PES (10% of lab) | NA | - | - | |
| Tune check | 1) ion abundance with method limits<br>2) *check for co-elution /proper background subtratction<br>3) *compare reported data to raw data | All tunes passed method criteria. | X | - | |
| Initial Cal Multipoint (instrument evaluation) | 1) correct calibration stds<br>2) within 12 hours of the tune check<br>3) CCCs %RSD: <30% (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC ( J –detects, R or UJ NDs all samples associated with Ical)<br>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)<br>5) RRF>0.05 all compounds<br>6) RRT < 0.06 units (all stds within 30 sec)<br>7) *verify that instrument parameters met method and that Ical and analysis used the same parameters<br>8) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values.<br>9) *recalculate one tgt compound associated with each IS. Recalculated values within 10%.<br>10) *option-review preparation logs to ensure cal stds are traceable to NIST stds.<br>11) *option-recalculate cal std concentration of one std. Must agree within 10% of lab<br>(option if information is in data package) | 1. Instrument: GCMSL<br>ICAL: 04/05/2007. Initial calibration met the established criteria.<br><br>2. Instrument: GCMSM<br>ICAL: 04/07/2007. Initial calibration met the established criteria.<br><br>3.Instrument: GCMSN<br>ICAL: 04/13/2007. Initial calibration met the established criteria.<br><br>4.Instrument: GCMSP<br>ICAL: 04/13/2007. Initial calibration met the established criteria. | X | - | |

<table>
<tr><th>REVIEW ITEMS</th><th>ACCEPTANCE CRITERIA</th><th>SAMPLES AFFECTED</th><th>Inventory</th><th>QUAL</th><th>BIAS</th></tr>
<tr><td>Continuing Calibration Verification (CCV)</td><td>1) SPCCs Average RRF: SPCCs Chloromethane >0.10, 1,1 DCA>0.10, bromoform >0.10, chlorobenzene>0..3, 1122TCA>0..3<br>2) RRF all compounds > 0.05<br>3) CCC: (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC) %D<20% (or all analytes if no CCCs reported).<br>4) Lab method limits for non SPCC/CCC's.<br>5) Qualification-J detects, R or UJ NDs<br>6) *verify same instrument and parameters<br>7) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10% )<br>8) *Recalculate %D for one tgt cmpd associated with each IS (within 10%)<br>9) *IS RRT<0.06 units (30 sec)<br>10) * IS area -50 % to 100 % of last ICAL<br>11) *option-review preparation logs to ensure cal stds are traceable to NIST stds.<br>12) *option-recalculate cal std concentration of one std. Must agree within 10% of lab<br>(option if information is in data package)</td><td>1. All %D's and RRF in CCV analyzed on 04/10/2007 was acceptable with the following exceptions:<br>1.1 Methylene Chloride: %D 32.8%.<br>1.2 2-Hexanone %D: 20.7%<br><table><tr><th>Laboratory Sample ID</th><th>Compound</th><th>Action</th></tr><tr><td>2 ,9A</td><td>Methylene Chloride<br>2-Hexanone</td><td>UJ</td></tr></table><br>2. All %D's and RRF in CCV analyzed on 04/11/2007 was acceptable with the following exceptions:<br>2.1 Xylene (Total) %D: 20.6%.<br>2.2 Styrene: 20.7%.<br><table><tr><th>Laboratory Sample ID</th><th>Compound</th><th>Action</th></tr><tr><td>6</td><td>Xylene (Total)<br>Styrene</td><td>UJ</td></tr></table><br>3. All %D's and RRF in CCV analyzed on 04/16/2007 was acceptable. No qualifications were required.<br><br>4. All %D's and RRF in CCV analyzed on 04/15/2007 was acceptable. No qualifications were required.</td><td>X</td><td>Methylene Chloride and 2-Hexanone in samples 2 and 9A were qualified (UJ).<br><br>Xylene (Total) and Styrene in sample 6 was qualified (UJ).</td><td></td></tr>
</table>

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Overall Evaluation of Data | 1) Appropriate method<br>2) Evaluate any analytical problems<br>3) Evaluate sampling errors – field contamination, sample hold times | Analytical Error Evaluation:<br>1. ICAL: has acceptable fit for all reported compounds.<br>2. CCV:<br>2.1 %D for Methylene Chloride and 2-Hexanone were outside the QC limits. Samples 2 and 9A were qualified (UJ).<br>2.2 %D for Xylene (Total) and Styrene were outside the QC limits. Sample 6 was qualified (UJ).<br><br>3. Laboratory accuracy is acceptable LCS within limits.<br><br>4. MS and MSD were performed on sample BN-9-29-SW-10(1). All %REC were within the QC limits with the following exception:<br><br>4.1 Methylene chloride %REC in both MS and MSD was below the QC limits. The compound was not detected in the native sample and qualified as estimated (UJ).<br><br>Sampling Error Evaluation:<br>1. Field duplicate precision was acceptable | X | - | |

* Tier III review items only.

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

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| Data Validation Level | Matrix | Preservation | Temp Sample Receipt | Laboratory | SDG Number |
|---|---|---|---|---|---|
| Tier II | Aqueous<br><br>Sediment | HNO3<br><br>- | Three (3) sample coolers were received by ACCUTEST on 04/06/2007 at 2.3, 3.0 and 1.4°C | ACCUTEST Laboratories, Marlborough, MA 01752 | M63904 |

**Field Identification of Samples Evaluated:**

| Field ID | Lab Sample Number |
|---|---|
| BN-9-29-SW-10 | M63904-1 |
| BN-9-29-SED-10 | M63904-2 |
| BN-9-29-LT-901 | M63904-3 |
| BN-9-29-SW-XD1 | M63904-4 (Field Duplicate for M63904-1) |
| BN-9-29-LT-XD1 | M63904-5 (Field Duplicate for M63904-3) |
| BN-9-29-SED-XD1 | M63904-6 (Field Duplicate for M63904-2) |

*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: NAS Brunswick**
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**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II Guidance and QAPP**
**(January 2006)**

| 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)<br>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) | Cooler temperatures < 6°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 samples qualified. | X | - | |
| Holding Time | 1) 180 days (6010), Hg 28 Days to analysis<br>2) J –detects, UJ or R –nondetects (function of time) | All water and soil samples were Samples prepared/analyzed within holding times. No samples qualified. | X | - | |
| Laboratory Duplicate | 1) RPD < 20%<br>1) If both values > PQL<br>2) Qualify samples in batch: detects J, NDs UJ | 1. Laboratory Duplicate was performed on sample -1. RPD for all compound >PQL were with QC limits. No qualifications were required.<br><br>2. Laboratory Duplicate was performed on sample -3. RPD for following elements were >20%: Aluminum, Chromium, Copper, Iron, Magnesium, Manganese, Vanadium and Zinc. All positive results were qualified as estimated (J) in sample 3.<br><br>3. Laboratory Duplicate was performed on sample -2. RPD for following elements were >20%: Zinc. All positive results were qualified as estimated (J) in samples 2 and 6. | X | Al, Cr, Cu, Fe, Mn, Mg, V and Zn in sample 3 qualified (J)<br><br>Zn in samples 2 and 6 qualified (J) | |
| Laboratory Control Sample (LCS) Recovery | 1) once per sample batch<br>2) 75-125% water, soil, QAPP limits.<br>3) <LCL% Reject<br>4) >UCL% detects J | 1. All LCS %R's acceptable. No samples qualified. | X | - | |

**H&S Environmental Region I Data Review Worksheet**
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**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Field Duplicate RPD | 1) RPD ≤ 30% water &<50% soil for Results > X PQL (FD pair only) J-detects (both > X PQL)<br>2) If one >X PQL, other ND, J-detections, UJ non-detect | 1. Sample BN-9-29-SW-XD1 was collected as field duplicate for sample BN-9-29-SW-10. Cr qualified as estimated (J) in both samples<br><br>2. Sample BN-9-29-LT-XD1 was collected as field duplicate for sample BN-9-29-LT-901. Al, As, Ba, Be, Ca, Fe, K and Ag were qualified as estimated (J) in both samples.<br><br>3. Sample BN-9-29-SED-XD1 was collected as field duplicate for sample BN-9-29-SED-10. Be was qualified as estimated (J) in both samples.<br><br>Please refer to Field Duplicate Summary Table. | | Cr qualified J in samples: 1 and 4<br><br>Al, As, Ba, Be, Ca, Fe, K and Ag qualified J in samples 3 and 5<br><br>Be qualified J in samples 2 and 6 | |
| % Solids Check (SOLIDS) | 30%<Solids: if no sample weight adjustment made<br>1) <10% R entire sample<br>2) 10%.> and <30%; J-detects, NDs -R | 1. All % Solids in the sediment samples were >30%. No qualifications were required. | X | - | |

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**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II Guidance and QAPP**
**(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Laboratory Blanks (method blank or preparation blank) | 1) Once per sample batch<br>2) Results> QL; sample results <5X ; sample result U (nd)<br>3) Sample results >5X blank level; no action | ICP-AES, ICP-MS and CVAA:<br><br>1. All Method Blanks were free of contaminations. No qualifications were required. | X | - | |
| Matrix Spike (MS) Recovery | 1) 75-125% GFAA/ICP if MS > 4X native levels)<br>Qualification of MS sample:<br>2) <30% J detects, R NDs<br>3) 30%--74%, detects J, NDs UJ<br>>125% J detects | 1. MS was performed on sample BN-9-29-SW-10 (1). All %REC's were within the QC limits. No qualifications were required.<br><br>2. MS was performed on sample BN-9-29-LT-901(3). All %REC's were within the QC limits. No qualifications were required.<br><br>3. MS was performed on sample BN-9-29-SED-10 (2). All %REC's were within the QC limits. No qualifications were required. | X | - | |
| Sensitivity* | 1) MDL study – 7 replicates (40 CFR)<br>2) Surrogates %R 80-120%,<br>1) %R <10 ND- (R) , J- detects<br>2) 10%> but <80% , judgement<br>3) %R>120% J-detects<br>4) %RSD < 20%<br>5) MDL< MQL (3x less ideal)<br>6) Lab fortified blank (see VOA/SV Part II – section X).<br>*Check and recalculate %RSDs and %R fir three compounds (with 10% of lab) | MRL< OM RL | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Equipment Blank | < 5x contaminants for aqueous samples<br>– for soil indicate EB (X rules don't apply) | Equipment blank not collected/analyzed with this SDG as the equipment was dedicated. | - | - | |
| Negative blanks | If negative values are reported for an analyte with absolute value >DL and sample value is <5X the absolute value of the blank or is nondetect Qualify detects as estimated (J) Nondetects as estimated (UJ) | No negative blank detections for target metals. No samples qualified. | X | - | |
| Initial Calibration Blanks (ICB) | 1) ICB after ICAL<br>2) Results > QL; sample results <5X ; sample result U (ND)<br>3) Sample results >5X blank level; no action | ICP-AES, ICP-MS and CVAA:<br><br>1. All ICB's were free of contaminations. No qualifications were required. | X | - | |
| Continuing Calibration Blanks (CCB) | 1) CCB every 10 samples end of run<br><br>2) Results > QL; sample results <5X ; sample result U (ND)<br><br>3) Sample results >5X blank level; no action | ICP-AES, ICP-MS and CVAA:<br><br>1. All CCB's were free of contaminations with the following exception:<br><br>1.1 Thallium (CCB9-04/18/2007): 0.23ug/L (1.15ug/L): U qualifier was added to the following samples: 1, 3, and 5. | X | -<br><br>Thallium in samples: 1,3 and 5 qualified U | |
| Serial Dilution | 1) once per digestion batch<br>2) Meets method limits (RPD 10%).<br>3) Metal results >50X MDL levels. | 1. Serial Dilution was performed on sample BN-9-29-SW-10 (1). K RPD was 22.2% outside the QC limits. All positive results in samples 1,4 and 5 were qualified as estimated (J).<br><br>2. Serial Dilution was performed on sample BN-9-29-LT-901(3). K RPD was 12.7% outside the QC limits. All positive result in sample 3 was qualified as estimated (J).<br><br>3. Serial Dilution was performed on sample BN-9-29-SED-10 (2). K RPD was 23.6% outside the QC limits. All positive results in samples 2 and 6 were qualified as estimated (J). | X | Potassium qualified as estimated (J) in samples: 1,4 and 5<br><br>Potassium qualified as estimated (J) in sample: 3<br><br>Potassium qualified as estimated (J) in samples: 2 and 6 | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Interelement checks ICS-A, ICS-AB Instrument performance check | 1) start of sequence<br>2) 80-120% target analytes<br>3) >120% ; detects J (ICS-AB)<br>4) 50%-79% R ICS-AB; detects J, NDs – UJ<br>5) <50% R – reject data<br>6) ICS-A response > DL and samples have <5X ICS-A response: detects J<br>7) Absolute value of negative ICS-A response>DL and sample detects <5X ICS-A response: detects J, NDs as UJ<br>8) If the ICS-A is within limits, the ICS-AB may not be analyzed (USACE Shell) | ICS's %R's within MPC limits for COC elements. No samples qualified. | X | - | |
| Initial Cal Multipoint | 1) 6010: 1 std and blank and low-level check at MQL – check std 20%<br>2) 3 stds and a blank- R = 0.995 | ICAL performed according to method. Two point calibration and check standards. The pre-analysis check standard was within limits. | X | - | |
| 2nd Source ICV | 1) following calibration<br>2) 90- 110% Recovery (6010/7000 )<br>3) 75%-89% R – detects J, NDs – UJ<br>4) 111-125% R – detects J<br>outside 75-125% R – reject data ( R ) | Within limits of MPC. No samples qualified. | X | - | |
| CCV | 1) every 10 samples and end of run<br>2) 90- 110% Recovery (6010) Hg; 80-120%<br>3) 6010: 75%-89% R Hg, 65-79% R; – detects J, NDs – UJ.<br>4) 6010: 111-125%, Hg: 121-135% detects J<br>6010: outside 75-125%, Hg; outside 65-135%; R – reject data ( R ) | Within limits of MPC. No samples qualified. | X | - | |
| Post Digestion Spike | 1) 75- 125% R | NA | - | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| *MDL Study | 1) *In accordance with 40CFR – seven replicates %RSD < 20%<br>2) * IS and retention times within method requirements<br>3) * performed annually<br>4) *MDL is at least ½ of PQL<br>*tgt and surrogate 80-120% R | NA | - | - | |
| *System Performance | 1)* evaluate PES, MS//MSD, cal STDs, MDS study, and surrogates for systemic bias – high or low and access system accuracy<br>1) *Matrix effects- MS/MSD, surrogated, PDS.<br>2) *overall system contamination-review all blanks for systemic or sporadic contamination | NA | - | - | |
| *Single Blind PE | 1) Qualify associated samples in PES batch PES = ND, Detects J – ND PE analytes in samples, NDs – R<br>3) PES > acceptance criteria – Detects in samples J,<br>4) PES<acceptance criteria – Detects J, NDs –R<br>5) VOA/SV-XI14 other criteria<br>6) *% of PES sample above and below criteria<br>*Recalculate concentrations for one tgt compound per PES (10% of lab) | NA | - | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Overall Evaluation of Data | 1) Appropriate method<br>2) Evaluate any analytical problems<br>3) Evaluate sampling errors – field contamination, sample hold times | <u>Analytical Problems:</u><br>1. Sample results are usable for project decision making, as qualified. Laboratory accuracy and precision is acceptable.<br><br>2. Accuracy is shown by the LCS being within MPC limits.<br><br>3.The ICS-A, and ICS-AB were within limits for all elements.<br><br>4.Lab duplicates RPDs within LTMP limits acceptable with the following exceptions:<br>4.1 Laboratory Duplicate was performed on sample -3. RPD for following elements were >20: Aluminum, Chromium, Copper, Iron, Magnesium, Manganese, Vanadium and Zinc. All positive results were qualified as estimated (J) in sample 3.<br>4.2. Laboratory Duplicate was performed on sample -2. RPD for following elements were >20 and Zinc. All positive results were qualified as estimated (J) in samples 2 and 6.<br><br>5. Method Blanks were free of contaminations.<br><br>6. Matrix spike %REC's were within the QC limits.<br><br>7. Serial dilution:<br>7.1. Serial Dilution was performed on sample BN-9-29-SW-10 (1). K RPD was 22.2% outside the QC limits. All positive results in samples 1,4 and 5 were qualified as estimated (J).<br>7.2. Serial Dilution was performed on sample BN-9-29-LT-901(3). K RPD was 12.7% outside the QC limits. All positive result in sample 3 was qualified as estimated (J). | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| | | 7.3. Serial Dilution was performed on sample BN-9-29-SED-10 (2). K RPD was 23.6% outside the QC limits. All positive results in samples 2 and 6 were qualified as estimated (J).<br><br>Sampling Error:<br>1. Sample BN-9-29-SW-XD1 was collected as field duplicate for sample BN-9-29-SW-10. Cr qualified as estimated (J) in both samples<br><br>2. Sample BN-9-29-LT-XD1 was collected as field duplicate for sample BN-9-29-LT-901. Al, As, Ba, Be, Ca, Fe, K and Ag were qualified as estimated (J) in both samples.<br><br>3. Sample BN-9-29-SED-XD1 was collected as field duplicate for sample BN-9-29-SED-10. Be was qualified as estimated (J) in both samples.<br><br>For the complete list of duplicates and RPD's please see the attached field duplicate worksheet. | | | |

*TIER III DATA VALIDATION ONLY Completeness Check: Inventory Check Sheet___X_Sample Quantitation Calculations (TIER III DATA VALIDATION ONLY):

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-10 | GN22274-D1 | EPA1603M | 04/04/07 | 1 | Solids, Percent | 78.3 | % | | | |
| BN-9-29-SW-10 | M63904-1 | SW8466020 | 04/04/07 | 2 | Lead | 1.1 | ug/l | | 0.26 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466020 | 04/04/07 | 2 | Thallium | 0.31 | ug/l | U | 0.046 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466020 | 04/04/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466020 | 04/04/07 | 2 | Arsenic | | ug/l | U | 1.9 | 2.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466020 | 04/04/07 | 2 | Selenium | | ug/l | U | 0.88 | 10 |
| BN-9-29-SW-10 | M63904-1 | SW8467470A | 04/04/07 | 1 | Mercury | | ug/l | U | 0.018 | 0.20 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Aluminum | 247 | ug/l | | 19.0 | 200 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Iron | 697 | ug/l | | 6.3 | 100 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Magnesium | 2560 | ug/l | J | 6.6 | 5000 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Manganese | 371 | ug/l | | 0.24 | 15 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Nickel | 2.1 | ug/l | J | 0.47 | 40 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Potassium | 2040 | ug/l | J | 5.5 | 5000 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Silver | | ug/l | U | 0.31 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Sodium | 27100 | ug/l | | 80.0 | 5000 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Barium | 23.4 | ug/l | J | 0.86 | 200 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Beryllium | | ug/l | U | 0.25 | 4.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Cadmium | | ug/l | U | 0.22 | 4.0 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Chromium | 0.71 | ug/l | J | 0.30 | 10 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Cobalt | | ug/l | U | 0.61 | 50 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Copper | 4.4 | ug/l | J | 0.81 | 25 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Vanadium | 1.6 | ug/l | J | 0.35 | 30 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Zinc | 28.6 | ug/l | | 0.36 | 20 |
| BN-9-29-SW-10 | M63904-1 | SW8466010B | 04/04/07 | 1 | Calcium | 19400 | ug/l | | 6.6 | 5000 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/l | U | 0.30 | 0.50 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/l | U | 0.31 | 0.50 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | cis-1,2-Dichloroethene | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | trans-1,2-Dichloroethene | | ug/l | U | 0.40 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Bromomethane | | ug/l | U | 0.61 | 2.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Chloromethane | | ug/l | U | 0.20 | 2.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Chloroethane | | ug/l | U | 0.65 | 2.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Carbon disulfide | | ug/l | U | 0.41 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-29-SW-10 | M63904-1 | SW8468260B | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-29-SED-10 | M63904-2 | EPA1603M | 04/04/07 | 1 | Solids, Percent | 79.8 | % | | | |
| BN-9-29-SED-10 | M63904-2 | SW8467471A | 04/04/07 | 1 | Mercury | | mg/kg | U | 0.0035 | 0.039 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Aluminum | 2490 | mg/kg | | 2.1 | 22 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Iron | 3390 | mg/kg | | 0.70 | 11 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Lead | 9.3 | mg/kg | | 0.10 | 0.55 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Magnesium | 849 | mg/kg | | 0.74 | 550 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Manganese | 44.9 | mg/kg | | 0.027 | 1.7 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Nickel | 4.4 | mg/kg | | 0.052 | 4.4 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Potassium | 290 | mg/kg | J | 0.61 | 550 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Silver | | mg/kg | U | 0.034 | 0.55 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Sodium | 143 | mg/kg | J | 8.9 | 550 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Thallium | | mg/kg | U | 0.29 | 2.2 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Antimony | | mg/kg | U | 0.15 | 2.2 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Arsenic | 0.96 | mg/kg | J | 0.082 | 2.2 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Barium | 8.7 | mg/kg | J | 0.095 | 22 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Beryllium | 0.56 | mg/kg | J | 0.028 | 0.44 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Cadmium | 0.057 | mg/kg | J | 0.024 | 0.44 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Chromium | 4.6 | mg/kg | | 0.033 | 1.1 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Cobalt | 1.6 | mg/kg | J | 0.068 | 5.5 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Copper | 5.0 | mg/kg | | 0.090 | 2.8 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Vanadium | 6.7 | mg/kg | | 0.039 | 3.3 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Zinc | 20.8 | mg/kg | J | 0.040 | 2.2 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Calcium | 450 | mg/kg | J | 0.73 | 550 |
| BN-9-29-SED-10 | M63904-2 | SW8466010B | 04/04/07 | 1 | Selenium | | mg/kg | U | 0.11 | 0.55 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Ethylbenzene | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Styrene | | ug/kg | U | 0.47 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/kg | U | 0.14 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/kg | U | 0.12 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/kg | U | 0.34 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/kg | U | 0.10 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/kg | U | 0.52 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Toluene | | ug/kg | U | 0.13 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Chlorobenzene | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Dibromochloromethane | | ug/kg | U | 0.22 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Tetrachloroethene | | ug/kg | U | 0.18 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Xylene (total) | | ug/kg | U | 0.14 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/kg | U | 1.6 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/kg | U | 0.28 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Carbon tetrachloride | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 2-Hexanone | | ug/kg | UJ | 1.2 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Acetone | 47.9 | ug/kg | | 2.6 | 4.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Chloroform | | ug/kg | U | 0.49 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Benzene | | ug/kg | U | 0.14 | 0.40 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Bromomethane | | ug/kg | U | 0.36 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Chloromethane | | ug/kg | U | 0.24 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Chloroethane | | ug/kg | U | 0.20 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Vinyl chloride | | ug/kg | U | 0.17 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Methylene chloride | | ug/kg | UJ | 0.39 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Carbon disulfide | 5.4 | ug/kg | | 0.38 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Bromoform | | ug/kg | U | 0.29 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Bromodichloromethane | | ug/kg | U | 0.15 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/kg | U | 0.21 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/kg | U | 0.26 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/kg | U | 0.18 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/kg | U | 1.1 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/kg | U | 0.22 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Trichloroethene | | ug/kg | U | 0.21 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/kg | U | 0.31 | 1.6 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | Hexachlorobutadiene | | ug/kg | U | 0.39 | 4.0 |
| BN-9-29-SED-10 | M63904-2 | SW8260 | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/kg | U | 0.14 | 1.6 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 3 | Iron | 733000 | ug/l | J | 19.0 | 300 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 3 | Cadmium | | ug/l | U | 0.66 | 12 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Total TIC, Volatile | 0 | % | | | |
| BN-9-29-LT-901 | M63904-3 | SW8466020 | 04/04/07 | 2 | Lead | 77.6 | ug/l | | 0.26 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8466020 | 04/04/07 | 2 | Thallium | 0.36 | ug/l | U | 0.046 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8466020 | 04/04/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-29-LT-901 | M63904-3 | SW8466020 | 04/04/07 | 2 | Arsenic | 4.3 | ug/l | J | 1.9 | 2.0 |
| BN-9-29-LT-901 | M63904-3 | SW8466020 | 04/04/07 | 2 | Selenium | | ug/l | U | 0.88 | 10 |
| BN-9-29-LT-901 | M63904-3 | SW8467470A | 04/04/07 | 1 | Mercury | 0.15 | ug/l | J | 0.018 | 0.20 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Aluminum | 45300 | ug/l | J | 19.0 | 200 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Magnesium | 15700 | ug/l | J | 6.6 | 5000 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Manganese | 12600 | ug/l | J | 0.24 | 15 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Nickel | 66.7 | ug/l | | 0.47 | 40 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Potassium | 10200 | ug/l | J | 5.5 | 5000 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Silver | 1.2 | ug/l | J | 0.31 | 5.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Sodium | 32500 | ug/l | | 80.0 | 5000 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Barium | 938 | ug/l | J | 0.86 | 200 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Beryllium | 2.8 | ug/l | J | 0.25 | 4.0 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Chromium | 89.9 | ug/l | J | 0.30 | 10 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Cobalt | 37.3 | ug/l | J | 0.61 | 50 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Copper | 155 | ug/l | J | 0.81 | 25 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Vanadium | 136 | ug/l | J | 0.35 | 30 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Zinc | 898 | ug/l | J | 0.36 | 20 |
| BN-9-29-LT-901 | M63904-3 | SW8466010B | 04/04/07 | 1 | Calcium | 73300 | ug/l | J | 6.6 | 5000 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/l | U | 0.30 | 0.50 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/l | U | 0.31 | 0.50 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | cis-1,2-Dichloroethene | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | trans-1,2-Dichloroethene | | ug/l | U | 0.40 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Bromomethane | | ug/l | U | 0.61 | 2.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Chloromethane | | ug/l | U | 0.20 | 2.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Chloroethane | | ug/l | U | 0.65 | 2.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Methylene chloride | | ug/l | U | 0.27 | 2.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Carbon disulfide | | ug/l | U | 0.41 | 5.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-29-LT-901 | M63904-3 | SW8468260B | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466020 | 04/04/07 | 2 | Lead | 0.90 | ug/l | J | 0.26 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466020 | 04/04/07 | 2 | Thallium | | ug/l | U | 0.046 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466020 | 04/04/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466020 | 04/04/07 | 2 | Arsenic | | ug/l | U | 1.9 | 2.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466020 | 04/04/07 | 2 | Selenium | | ug/l | U | 0.88 | 10 |
| BN-9-29-SW-XD1 | M63904-4 | SW8467470A | 04/04/07 | 1 | Mercury | | ug/l | U | 0.018 | 0.20 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Aluminum | 264 | ug/l | | 19.0 | 200 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Iron | 760 | ug/l | | 6.3 | 100 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Magnesium | 2450 | ug/l | | 6.6 | 5000 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Manganese | 355 | ug/l | | 0.24 | 15 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Nickel | 2.1 | ug/l | J | 0.47 | 40 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Potassium | 1980 | ug/l | J | 5.5 | 5000 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Silver | | ug/l | U | 0.31 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Sodium | 26100 | ug/l | | 80.0 | 5000 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Barium | 22.9 | ug/l | J | 0.86 | 200 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Beryllium | | ug/l | U | 0.25 | 4.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Cadmium | | ug/l | U | 0.22 | 4.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Chromium | 1.1 | ug/l | J | 0.30 | 10 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Cobalt | 0.70 | ug/l | J | 0.61 | 50 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Copper | 3.9 | ug/l | J | 0.81 | 25 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Vanadium | 1.4 | ug/l | J | 0.35 | 30 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Zinc | 29.9 | ug/l | | 0.36 | 20 |
| BN-9-29-SW-XD1 | M63904-4 | SW8466010B | 04/04/07 | 1 | Calcium | 18600 | ug/l | | 6.6 | 5000 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/l | U | 0.30 | 0.50 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/l | U | 0.31 | 0.50 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | cis-1,2-Dichloroethene | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | trans-1,2-Dichloroethene | | ug/l | U | 0.40 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Bromomethane | | ug/l | U | 0.61 | 2.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Chloromethane | | ug/l | U | 0.20 | 2.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Chloroethane | | ug/l | U | 0.65 | 2.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Methylene chloride | | ug/l | U | 0.27 | 2.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Carbon disulfide | | ug/l | U | 0.41 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-29-SW-XD1 | M63904-4 | SW8468260B | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 3 | Cadmium | | ug/l | U | 0.66 | 12 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466020 | 04/04/07 | 2 | Lead | 69.8 | ug/l | | 0.26 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466020 | 04/04/07 | 2 | Thallium | 0.13 | ug/l | U | 0.046 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466020 | 04/04/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466020 | 04/04/07 | 2 | Arsenic | 2.3 | ug/l | J | 1.9 | 2.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466020 | 04/04/07 | 2 | Selenium | | ug/l | U | 0.88 | 10 |
| BN-9-29-LT-XD1 | M63904-5 | SW8467470A | 04/04/07 | 1 | Mercury | 0.12 | ug/l | J | 0.018 | 0.20 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Aluminum | 31700 | ug/l | J | 19.0 | 200 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Iron | 523000 | ug/l | J | 6.3 | 100 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Magnesium | 12400 | ug/l | | 6.6 | 5000 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Manganese | 14100 | ug/l | | 0.24 | 15 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Nickel | 52.7 | ug/l | | 0.47 | 40 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Potassium | 7350 | ug/l | J | 5.5 | 5000 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Silver | 1.7 | ug/l | J | 0.31 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Sodium | 30500 | ug/l | | 80.0 | 5000 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Barium | 643 | ug/l | J | 0.86 | 200 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Beryllium | 1.5 | ug/l | J | 0.25 | 4.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Chromium | 77.4 | ug/l | | 0.30 | 10 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Cobalt | 27.7 | ug/l | J | 0.61 | 50 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Copper | 107 | ug/l | | 0.81 | 25 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Vanadium | 101 | ug/l | | 0.35 | 30 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Zinc | 777 | ug/l | | 0.36 | 20 |
| BN-9-29-LT-XD1 | M63904-5 | SW8466010B | 04/04/07 | 1 | Calcium | 51500 | ug/l | J | 6.6 | 5000 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/l | U | 0.30 | 0.50 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/l | U | 0.31 | 0.50 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | cis-1,2-Dichloroethene | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | trans-1,2-Dichloroethene | | ug/l | U | 0.40 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Bromomethane | | ug/l | U | 0.61 | 2.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Chloromethane | | ug/l | U | 0.20 | 2.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Chloroethane | | ug/l | U | 0.65 | 2.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Methylene chloride | | ug/l | U | 0.27 | 2.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Carbon disulfide | | ug/l | U | 0.41 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-29-LT-XD1 | M63904-5 | SW8468260B | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Ethylbenzene | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Styrene | | ug/kg | UJ | 0.49 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/kg | U | 0.15 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/kg | U | 0.36 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/kg | U | 0.11 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/kg | U | 0.54 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Toluene | | ug/kg | U | 0.14 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Chlorobenzene | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Dibromochloromethane | | ug/kg | U | 0.23 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Tetrachloroethene | | ug/kg | U | 0.19 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Xylene (total) | | ug/kg | UJ | 0.15 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/kg | U | 1.6 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/kg | U | 0.29 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Carbon tetrachloride | | ug/kg | U | 0.13 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 2-Hexanone | | ug/kg | U | 1.3 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Acetone | 27.5 | ug/kg | | 2.7 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Chloroform | | ug/kg | U | 0.51 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Benzene | | ug/kg | U | 0.15 | 0.41 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/kg | U | 0.14 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Bromomethane | | ug/kg | U | 0.37 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Chloromethane | | ug/kg | U | 0.25 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Chloroethane | | ug/kg | U | 0.21 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Vinyl chloride | | ug/kg | U | 0.17 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Methylene chloride | | ug/kg | U | 0.40 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Carbon disulfide | 3.0 | ug/kg | J | 0.40 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Bromoform | | ug/kg | U | 0.31 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Bromodichloromethane | | ug/kg | U | 0.15 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/kg | U | 0.22 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/kg | U | 0.27 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/kg | U | 0.19 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/kg | U | 1.1 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/kg | U | 0.23 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Trichloroethene | | ug/kg | U | 0.22 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/kg | U | 0.33 | 1.6 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | Hexachlorobutadiene | | ug/kg | U | 0.41 | 4.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8260 | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/kg | U | 0.14 | 1.6 |
| BN-9-29-SED-XD1 | M63904-6 | EPA1603M | 04/04/07 | 1 | Solids, Percent | 75.3 | % | | | |
| BN-9-29-SED-XD1 | M63904-6 | SW8467471A | 04/04/07 | 1 | Mercury | | mg/kg | U | 0.0038 | 0.043 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Aluminum | 2500 | mg/kg | | 2.1 | 23 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Iron | 3340 | mg/kg | | 0.72 | 11 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Lead | 8.2 | mg/kg | | 0.11 | 0.57 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Magnesium | 811 | mg/kg | | 0.76 | 570 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Manganese | 44.5 | mg/kg | | 0.027 | 1.7 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Nickel | 4.0 | mg/kg | J | 0.054 | 4.6 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Potassium | 316 | mg/kg | J | 0.63 | 570 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Silver | | mg/kg | U | 0.035 | 0.57 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Sodium | 126 | mg/kg | J | 9.2 | 570 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Thallium | | mg/kg | U | 0.30 | 2.3 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Antimony | | mg/kg | U | 0.16 | 2.3 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Arsenic | 0.87 | mg/kg | J | 0.085 | 2.3 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Barium | 8.1 | mg/kg | J | 0.098 | 23 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Beryllium | 0.14 | mg/kg | J | 0.029 | 0.46 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Cadmium | 0.041 | mg/kg | J | 0.025 | 0.46 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Chromium | 6.1 | mg/kg | | 0.034 | 1.1 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Cobalt | 1.5 | mg/kg | J | 0.070 | 5.7 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Copper | 3.9 | mg/kg | | 0.093 | 2.9 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Vanadium | 6.0 | mg/kg | | 0.040 | 3.4 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Zinc | 17.9 | mg/kg | J | 0.041 | 2.3 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Calcium | 399 | mg/kg | J | 0.76 | 570 |
| BN-9-29-SED-XD1 | M63904-6 | SW8466010B | 04/04/07 | 1 | Selenium | 0.15 | mg/kg | J | 0.12 | 0.57 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/l | U | 0.30 | 0.50 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/l | U | 0.31 | 0.50 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | cis-1,2-Dichloroethene | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | trans-1,2-Dichloroethene | | ug/l | U | 0.40 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Bromomethane | | ug/l | U | 0.61 | 2.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Chloromethane | | ug/l | U | 0.20 | 2.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Chloroethane | | ug/l | U | 0.65 | 2.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Methylene chloride | | ug/l | U | 0.27 | 2.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Carbon disulfide | | ug/l | U | 0.41 | 5.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-29-RINSATE1 | M63904-7 | SW8468260B | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/l | U | 0.30 | 0.50 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/l | U | 0.31 | 0.50 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | cis-1,2-Dichloroethene | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | trans-1,2-Dichloroethene | | ug/l | U | 0.40 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Bromomethane | | ug/l | U | 0.61 | 2.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Chloromethane | | ug/l | U | 0.20 | 2.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Chloroethane | | ug/l | U | 0.65 | 2.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Methylene chloride | | ug/l | U | 0.27 | 2.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Carbon disulfide | | ug/l | U | 0.41 | 5.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SOURCE1 | M63904-8 | SW8468260B | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Ethylbenzene | | ug/kg | U | 4.0 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Styrene | | ug/kg | U | 15 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/kg | U | 4.5 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/kg | U | 3.9 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/kg | U | 11 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/kg | U | 3.3 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/kg | U | 16 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Toluene | | ug/kg | U | 4.1 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Chlorobenzene | | ug/kg | U | 4.0 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Dibromochloromethane | | ug/kg | U | 7.1 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Tetrachloroethene | | ug/kg | U | 5.8 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Xylene (total) | | ug/kg | U | 4.5 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/kg | U | 50 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/kg | U | 8.9 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Carbon tetrachloride | | ug/kg | U | 4.0 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 2-Hexanone | | ug/kg | U | 39 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Acetone | | ug/kg | U | 82 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Chloroform | | ug/kg | U | 15 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Benzene | | ug/kg | U | 4.4 | 13 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/kg | U | 4.1 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Bromomethane | | ug/kg | U | 11 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Chloromethane | | ug/kg | U | 7.6 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Chloroethane | | ug/kg | U | 6.5 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Vinyl chloride | | ug/kg | U | 5.3 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Methylene chloride | | ug/kg | U | 12 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Carbon disulfide | | ug/kg | U | 12 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Bromoform | | ug/kg | U | 9.3 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Bromodichloromethane | | ug/kg | U | 4.7 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/kg | U | 6.6 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/kg | U | 8.1 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/kg | U | 5.7 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/kg | U | 34 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/kg | U | 7.1 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Trichloroethene | | ug/kg | U | 6.5 | 50 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/kg | U | 9.9 | 50 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | Hexachlorobutadiene | | ug/kg | U | 12 | 130 |
| BN-9-29-TRIP1 | M63904-9 | SW8260 | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/kg | U | 4.3 | 50 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Ethylbenzene | | ug/kg | U | 0.16 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Styrene | | ug/kg | U | 0.60 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | cis-1,3-Dichloropropene | | ug/kg | U | 0.18 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | trans-1,3-Dichloropropene | | ug/kg | U | 0.16 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,4-Dichlorobenzene | | ug/kg | U | 0.44 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethane | | ug/kg | U | 0.13 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/kg | U | 0.66 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Toluene | | ug/kg | U | 0.17 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Chlorobenzene | | ug/kg | U | 0.16 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Dibromochloromethane | | ug/kg | U | 0.28 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Tetrachloroethene | | ug/kg | U | 0.23 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Xylene (total) | | ug/kg | U | 0.18 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,2-Dichloroethene (total) | | ug/kg | U | 2.0 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,3-Dichlorobenzene | | ug/kg | U | 0.35 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Carbon tetrachloride | | ug/kg | U | 0.16 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 2-Hexanone | | ug/kg | UJ | 1.6 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Acetone | | ug/kg | U | 3.3 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Chloroform | | ug/kg | U | 0.61 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Benzene | | ug/kg | U | 0.18 | 0.50 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,1,1-Trichloroethane | | ug/kg | U | 0.16 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Bromomethane | | ug/kg | U | 0.45 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Chloromethane | | ug/kg | U | 0.30 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Chloroethane | | ug/kg | U | 0.26 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Vinyl chloride | | ug/kg | U | 0.21 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Methylene chloride | | ug/kg | UJ | 0.49 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Carbon disulfide | | ug/kg | U | 0.49 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Bromoform | | ug/kg | U | 0.37 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Bromodichloromethane | | ug/kg | U | 0.19 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethane | | ug/kg | U | 0.27 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,1-Dichloroethene | | ug/kg | U | 0.33 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,2-Dichloropropane | | ug/kg | U | 0.23 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 2-Butanone (MEK) | | ug/kg | U | 1.4 | 5.0 |

# NAS BRUNSWICK SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS AND SEDIMENT
# SDG: M63904

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,1,2-Trichloroethane | | ug/kg | U | 0.28 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Trichloroethene | | ug/kg | U | 0.26 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/kg | U | 0.40 | 2.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | Hexachlorobutadiene | | ug/kg | U | 0.50 | 5.0 |
| BN-9-29-TRIP1 | M63904-9A | SW8260 | 04/04/07 | 1 | 1,2-Dichlorobenzene | | ug/kg | U | 0.17 | 2.0 |

**Field Duplicate Worksheet**
**SDG: M63904**
**Naval Air Station, Brunswick, ME**
**Site 9**
**ROUND 30**

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SW-10 | Alumium | SW-846 6010B | 247 | µg/L | BN-9-29-SW-XD1 | 264 | µg/L | 6.7 | |
| BN-9-29-SW-10 | Barium | SW-846 6010B | 23.4 | µg/L | BN-9-29-SW-XD1 | 22.9 | µg/L | 2.2 | |
| BN-9-29-SW-10 | Calcium | SW-846 6010B | 19400 | µg/L | BN-9-29-SW-XD1 | 18600 | µg/L | 4.2 | |
| BN-9-29-SW-10 | Chromium | SW-846 6010B | 0.71 | µg/L | BN-9-29-SW-XD1 | 1.1 | µg/L | **43.1** | **J** |
| BN-9-29-SW-10 | Copper | SW-846 6010B | 4.4 | µg/L | BN-9-29-SW-XD1 | 3.9 | µg/L | 12.0 | |
| BN-9-29-SW-10 | Iron | SW-846 6010B | 697 | µg/L | BN-9-29-SW-XD1 | 760 | µg/L | 8.6 | |
| BN-9-29-SW-10 | Lead | SW-846 6010B | 1.1 | µg/L | BN-9-29-SW-XD1 | 0.9 | µg/L | 20.0 | |
| BN-9-29-SW-10 | Magnesium | SW-846 6010B | 2560 | µg/L | BN-9-29-SW-XD1 | 2450 | µg/L | 4.4 | |
| BN-9-29-SW-10 | Manganese | SW-846 6010B | 371 | µg/L | BN-9-29-SW-XD1 | 355 | µg/L | 4.4 | |
| BN-9-29-SW-10 | Nickel | SW-846 6010B | 2.1 | µg/L | BN-9-29-SW-XD1 | 2.1 | µg/L | 0.0 | |
| BN-9-29-SW-10 | Potassium | SW-846 6010B | 2040 | µg/L | BN-9-29-SW-XD1 | 1980 | µg/L | 3.0 | |
| BN-9-29-SW-10 | Sodium | SW-846 6010B | 27100 | µg/L | BN-9-29-SW-XD1 | 26100 | µg/L | 3.8 | |
| BN-9-29-SW-10 | Vanadium | SW-846 6010B | 1.6 | µg/L | BN-9-29-SW-XD1 | 1.4 | µg/L | 13.3 | |
| BN-9-29-SW-10 | Zinc | SW-846 6010B | 28.6 | µg/L | BN-9-29-SW-XD1 | 29.9 | µg/L | 4.4 | |

**Field Duplicate Worksheet**
**SDG: M63904**
**Naval Air Station, Brunswick, ME**
**Site 9**
**ROUND 30**

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-LT-901 | Alumium | SW-846 6010B | 45300 | µg/L | BN-9-29-LT-XD1 | 31700 | µg/L | **35.3** | **J** |
| BN-9-29-LT-901 | Arsenic | SW-846 6010B | 4.3 | µg/L | BN-9-29-LT-XD1 | 2.3 | µg/L | **60.6** | **J** |
| BN-9-29-LT-901 | Barium | SW-846 6010B | 938 | µg/L | BN-9-29-LT-XD1 | 643 | µg/L | **37.3** | **J** |
| BN-9-29-LT-901 | Beryllium | SW-846 6010B | 2.8 | µg/L | BN-9-29-LT-XD1 | 1.5 | µg/L | **60.5** | **J** |
| BN-9-29-LT-901 | Calcium | SW-846 6010B | 73300 | µg/L | BN-9-29-LT-XD1 | 51500 | µg/L | **34.9** | **J** |
| BN-9-29-LT-901 | Chromium | SW-846 6010B | 89.9 | µg/L | BN-9-29-LT-XD1 | 77.4 | µg/L | 14.9 | |
| BN-9-29-LT-901 | Cobalt | SW-846 6010B | 89.9 | µg/L | BN-9-29-LT-XD1 | 77.4 | µg/L | 14.9 | |
| BN-9-29-LT-901 | Copper | SW-846 6010B | 37.3 | µg/L | BN-9-29-LT-XD1 | 27.7 | µg/L | 29.5 | |
| BN-9-29-LT-901 | Iron | SW-846 6010B | 733000 | µg/L | BN-9-29-LT-XD1 | 523000 | µg/L | **33.4** | **J** |
| BN-9-29-LT-901 | Lead | SW-846 6010B | 77.6 | µg/L | BN-9-29-LT-XD1 | 69.8 | µg/L | 10.6 | |
| BN-9-29-LT-901 | Magnesium | SW-846 6010B | 15700 | µg/L | BN-9-29-LT-XD1 | 12400 | µg/L | 23.5 | |
| BN-9-29-LT-901 | Manganese | SW-846 6010B | 12600 | µg/L | BN-9-29-LT-XD1 | 14100 | µg/L | 11.2 | |
| BN-9-29-LT-901 | Mercury | SW-846 7470A | 0.15 | µg/L | BN-9-29-LT-XD1 | 0.12 | µg/L | 22.2 | |
| BN-9-29-LT-901 | Nickel | SW-846 6010B | 66.7 | µg/L | BN-9-29-LT-XD1 | 52.7 | µg/L | 23.5 | |
| BN-9-29-LT-901 | Potassium | SW-846 6010B | 10200 | µg/L | BN-9-29-LT-XD1 | 7350 | µg/L | **32.5** | **J** |
| BN-9-29-LT-901 | Silver | SW-846 6010B | 1.2 | µg/L | BN-9-29-LT-XD1 | 1.7 | µg/L | **34.5** | **J** |
| BN-9-29-LT-901 | Sodium | SW-846 6010B | 32500 | µg/L | BN-9-29-LT-XD1 | 30500 | µg/L | 6.3 | |
| BN-9-29-LT-901 | Vanadium | SW-846 6010B | 136 | µg/L | BN-9-29-LT-XD1 | 101 | µg/L | 29.5 | |
| BN-9-29-LT-901 | Zinc | SW-846 6010B | 898 | µg/L | BN-9-29-LT-XD1 | 777 | µg/L | 14.4 | |

**Field Duplicate Worksheet**
**SDG: M63904**
**Naval Air Station, Brunswick, ME**
**Site 9**
**ROUND 30**

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-29-SED-10 | Alumium | SW-846 6010B | 2490 | mg/kg | BN-9-29-SED-XD1 | 2500 | mg/kg | 0.4 | |
| BN-9-29-SED-10 | Arsenic | SW-846 6010B | 0.96 | mg/kg | BN-9-29-SED-XD1 | 0.87 | mg/kg | 9.8 | |
| BN-9-29-SED-10 | Barium | SW-846 6010B | 8.7 | mg/kg | BN-9-29-SED-XD1 | 8.1 | mg/kg | 7.1 | |
| BN-9-29-SED-10 | Beryllium | SW-846 6010B | 0.56 | mg/kg | BN-9-29-SED-XD1 | 0.14 | mg/kg | **120.0** | **J** |
| BN-9-29-SED-10 | Cadmium | SW-846 6010B | 0.057 | mg/kg | BN-9-29-SED-XD1 | 0.041 | mg/kg | 32.7 | |
| BN-9-29-SED-10 | Calcium | SW-846 6010B | 450 | mg/kg | BN-9-29-SED-XD1 | 399 | mg/kg | 12.0 | |
| BN-9-29-SED-10 | Chromium | SW-846 6010B | 4.6 | mg/kg | BN-9-29-SED-XD1 | 6.1 | mg/kg | 28.0 | |
| BN-9-29-SED-10 | Cobalt | SW-846 6010B | 1.6 | mg/kg | BN-9-29-SED-XD1 | 1.5 | mg/kg | 6.5 | |
| BN-9-29-SED-10 | Copper | SW-846 6010B | 5 | mg/kg | BN-9-29-SED-XD1 | 3.9 | mg/kg | 24.7 | |
| BN-9-29-SED-10 | Iron | SW-846 6010B | 3390 | mg/kg | BN-9-29-SED-XD1 | 3340 | mg/kg | 1.5 | |
| BN-9-29-SED-10 | Lead | SW-846 6010B | 9.3 | mg/kg | BN-9-29-SED-XD1 | 8.2 | mg/kg | 12.6 | |
| BN-9-29-SED-10 | Magnesium | SW-846 6010B | 849 | mg/kg | BN-9-29-SED-XD1 | 811 | mg/kg | 4.6 | |
| BN-9-29-SED-10 | Manganese | SW-846 6010B | 44.9 | mg/kg | BN-9-29-SED-XD1 | 44.5 | mg/kg | 0.9 | |
| BN-9-29-SED-10 | Nickel | SW-846 6010B | 4.4 | mg/kg | BN-9-29-SED-XD1 | 4 | mg/kg | 9.5 | |
| BN-9-29-SED-10 | Potassium | SW-846 6010B | 290 | mg/kg | BN-9-29-SED-XD1 | 316 | mg/kg | 8.6 | |
| BN-9-29-SED-10 | Sodium | SW-846 6010B | 143 | mg/kg | BN-9-29-SED-XD1 | 126 | mg/kg | 12.6 | |
| BN-9-29-SED-10 | Vanadium | SW-846 6010B | 6.7 | mg/kg | BN-9-29-SED-XD1 | 6 | mg/kg | 11.0 | |
| BN-9-29-SED-10 | Zinc | SW-846 6010B | 20.8 | mg/kg | BN-9-29-SED-XD1 | 17.9 | mg/kg | 15.0 | |

# DATA VALIDATION MEMORANDUM
# NAS BRUNSWICK SITE 09
# DATA VALIDATION MEMORANDUM
# APRIL 2007 SAMPLING ROUND 30 (SDG: M64253)

| | |
|---|---|
| **TO:** | MR. JACKSON KIKER, ECC SENIOR CHEMIST, MARLBOROUGH, MA |
| **FROM:** | SAMIR A. NAGUIB, H&S ENVIRONMENTAL SENIOR QUALITY ASSURANCE CHEMIST, FRAMINGHAM, MA |
| **SUBJECT:** | NAS BRUNSWICK SITE 09 |
| **CLIENT NUMBER:** | 5700.007 |
| **DATE:** | JUNE 19, 2007 |

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 Inorganic Analysis (1988), and

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

The data were assessed against the MPC listed in the approved NASB Basewide QAPP (January 2006). The QAPP MPC and 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.

Presented in this Master Data Validation Memorandum are the data validation reports for the Sample Data Groups (SDGs) 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 Pesticides 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 ACCUTEST Laboratories, Marlborough, MA and ACCUTEST New Jersey. Sample Matrix: Ground Water (GW) and Sediment

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 | SVO | ME-DRO | TRACE METALS |
|---|---|---|---|---|---|
| BN-9-30-QT 1 | M64253-1 | X | | | |
| BN-9-30-MW22 | M64253-2 | X | | | |
| BN-9-30-MW70 | M64253-3 | | X | | X |
| BN-9-30-MW-XD1 | M64253-4 | | X | | X |
| BN-9-30-MW71 | M64253-5 | X | | | |
| BN-9-30-MW71 | M64253-6 | | X | | X |
| BN-9-30-MW72 | M64253-7 | X | | | |
| BN-9-30-MW74 | M64253-8 | X | | | |
| BN-9-30-MW74 | M64253-9 | | | X | |
| BN-9-30-MW-XD2 | M64253-10 | | | X | |
| BN-9-30-MW75 | M64253-11 | X | | | |
| BN-9-30-MW75 | M64253-12 | | | X | |
| BN-9-30-MW76 | M64253-13 | X | | | |
| **Field Sample Name** | **Lab Sample ID** | **VOC** | **SVO** | **ME-DRO** | **Trace Metals** |
| BN-9-30-MW76 | M64253-14 | | | X | |
| BN-9-30-MW227 | M64253-15 | X | | | |
| BN-9-30-MW-XD3 | M64253-16 | 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 | Decachlorobiphenly |
| 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 |

| Acronym / Abbreviation | Definition |
|---|---|
| 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: ACCUTEST Laboratories
SDG: M64253
EPA-NE DV TIER LEVEL: II
SITE NAME: NAS Brunswick-Site 09

# of SAMPLES/MATRIX: 9-groundwater, 3 Field Duplicate, 1-Trip Blank
VALIDATION CONTRACTOR: H&S Environmental
VALIDATOR'S NAME: Samir A. Naguib
DV Completion Date: June 19 , 2007
Date Sampled: April 18, 2007

## ANALYTICAL DATA QUALITY SUMMARY

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

**VOC**

1. Continuing Calibration Verification (CCV):

   1.1 %D for Chloromethane, Bromomethane, chloroethane, Methylene chloride, trans-1,2-dichloroethene ,Carbon disulfide, cis-1,2-dichloroethene,cis-1,3-dicloropropene and trans-1,3-dicloropropene were outside the QC limits. These compounds were qualified as estimated (UJ)in samples: 1,2,5,7,8,11,13,15 and 16 with the exception of cis-1,2-Dichloroethene in the following samples qualified as estimated (J): 8,15 and 16.

2. Matrix Spike (MS)/Matrix Spike Duplicate (MSD):

   MS and MSD were performed on sample BN-9-30-MW227 (15). All %REC were within the QC limits with the following exception:

   2.1 Carbon disulfide in sample 15 qualified UJ.

3. Laboratory Control Sample (LCS):

   3.1 Laboratory accuracy was acceptable with the exception of Carbon disulfide recovered below the QC limits. All non detect results were qualified as estimated (UJ)

4. Field Duplicate:

   4.1 Sample BN-9-30-MW-XD3 (15) was collected as field duplicate for sample BN-9-30-MW227 (16). All RPD between the native sample and field duplicate was acceptable with the following exception: Methyl Tert Butyl ether (MTBE). This compound qualified estimated (J) in sample 15 and estimated (UJ) in sample 16.

**SVOC**

1. Laboratory Control Sample (LCS):
   1.1 Dimethyl phthalate in the LCS recovered below QC limits. Non detected results were qualified UJ in samples 3, 4 and 6.

2. Matrix Spike (MS)/Matrix Spike Duplicate (MSD):
   MS and MSD were performed on sample BN-9-30-MW70 (3). All %REC were within the QC limits with the following exception:
   2.1 Dimethyl phthalate and 3-Nitroaniline in sample 3 qualified UJ.

**Trace Metals:**

1. Laboratory Duplicate:
   Lab duplicates RPDs were within LTMP limits acceptable with the following exceptions:
   1.1 RPDs for following elements were >20: Be and V in samples 3 and 6 qualified J. Sample 4 qualified UJ.
   1.2 Cu and Ni in samples 3, 4, 6 qualified J.

2. Field Duplicate:
   Sample BN-9-30-MW-XD1 (3) was collected as field duplicate for sample BN-9-30-M70 (4).
   2.1 Beryllium, Chromium, Iron, Manganese and Vanadium in sample 3 qualified J.
   2.2 Beryllium and Vanadium in sample 4 qualified UJ.
   2.3 Iron and Manganese in sample 4 qualified J.
   2.4 Mercury qualified J in 3 and UJ in 4.

3. Serial Dilution:

   3.1 Serial Dilution was performed on sample BN-9-30-M70 (3). K RPD was outside the QC limits. All positive results in samples 3, 4 and 6were qualified as estimated (J).

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**VOC's: SW-846 8260B**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| Data Validation Level | Matrix | Preservation | Temperature Sample Receipt | Laboratory | SDG Number |
|---|---|---|---|---|---|
| Tier II | Ground Water | HCl | Three (3) sample coolers were received by ACCUTEST on 04/20/2007 at 3.1, 2.7 and 2.1°C | ACCUTEST Laboratories, Marlborough, MA 01752 | M64253 |

**Field Identification of Samples Evaluated:**

| Field ID | Lab Sample Number | Sample Status |
|---|---|---|
| BN-9-30-QT 1 | M64253-1 | |
| BN-9-30-MW22 | M64253-2 | |
| BN-9-30-MW71 | M64253-5 | |
| BN-9-30-MW72 | M64253-7 | |
| BN-9-30-MW74 | M64253-8 | |
| BN-9-30-MW75 | M64253-11 | |
| BN-9-30-MW76 | M64253-13 | |
| BN-9-30-MW227 | M64253-15 | |
| BN-9-30-MW-XD3 | M64253-16 | Field Duplicate for Sample M64253-15 |

*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: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**VOC's: SW-846 8260B**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| COC, Sample Delivery Group Form. | 1)Unbroken custody (accept or if broken R)<br>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) | Cooler temperatures < 6 °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 samples qualified. | X | - | |
| Holding Time | 1) 14 Days to analysis, if preserved<br>2) J –detects, UJ or R –nondetects (function of time)<br>3) *transcription errors | Sample Date: 04/18/2007<br>All samples analyzed within holding times. No samples qualified. | X | - | |
| % Solids Check (SOLIDS) | 30%<Solids: if no sample weight adjustment made.<br>1) <10% R entire sample<br>2) 10%.> and <30%; J-detects, NDs -R | Not Applicable | - | - | |
| Trip Blank (TB) | 1) < 5x (<10x common) contaminants for aq samples-<br>2) TGT analytes <Lab QL (contact lab)<br>-for soils indicate TB (X rules apply to raw data)<br>4) MeCl & Acetone < 5<br>5) >RL report sample level U<br>6) <RL report PQL as U | 1. BN-9-30-QT 1 (1) was free of contaminations. No qualifications were required. | X | - | |
| Equipment Blank (EB) | 1) < 5x (<10x common) contaminants for aqueous samples-<br>2) TGT analytes <Lab QL (contact lab)<br>-for soils indicate TB (X rules don't apply)<br>3) MeCl & Acetone < 5<br>*Check IS area (10% of them)<br>* recalculate surrogate (%R – 10 % of them) | Equipment blank was not submitted with this SDG. | - | - | |
| Results > Cal Range or <Cal Range | 1) >Upper Cal Range J-detects - ensure instrument blank performed<br>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 | | |
| *TICs (if reported) | 1) *verify library search for samples and blanks<br>2) verify TICs were not misreported compounds (different fraction or miss in search)<br>3) All TICs – J estimated<br>4) * verify blanks do not contain TIC peaks<br>5) * check TIC assignment spectra to STD spectra<br>6) *review blank and Samples for common lab contaminants | The laboratory performed TIC on all samples in this SDG. However, 2-propanol was not detected. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Surrogates | 1. Refer to Table 13-1-S9 in the LTMP (01/06) for water and soil<br>*check raw data for surrogated (recalculate 10% of them).<br>*Transcription errors<br>Qualification: >UCL J –detects,<br>%R<10% J –detects, R –NDs,<br>%R >10% but <70% J-detects, UJ NDs | 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<br>2)TGT analytes <Lab QL | 1. Method Blank (MSP598-MB) associated with water samples was free of contaminations. No qualifications were required. | X | - | |
| Laboratory Control Sample (LCS) Recovery | 1) LCS/LCSD acceptance limits Table 7-3 (LTMP 01/06)<br>2) 10% and <LCL% J detects, UJ –Nods<br>3) >UCL% J detects <10% R NDs, J-detects | 1. All %REC's were within the QC limits with the following exception:<br>Carbon disulfide recovered below the QC limits. All non detect results were qualified as estimated (UJ) | X | Carbon disulfide in the following samples qualified UJ: 1,2,5,7,8, 11,13, 15 and 16. | |
| Matrix Spike/ Matrix Spike Duplicate (MS/MSD) Recovery | 1) MS/MSD acceptance limits Table 7-3 (LTMP 01/06)<br>2) if MS > 4X native levels<br>Qualification of MS sample: <10% J detects, R NDs<br>>10% and <LCL% J detects, UJ -NDs<br>>UCL% J detects<br>3) *Recalculate the concentrations for one compound in the MS/MSD<br>* Recalculate the %R (within 10% of lab) | 1. MS and MSD were performed on sample BN-9-30-MW227 (15). All %REC were within the QC limits with the following exception:<br><br>Compound / %R/%R/RPD / Action<br>Bromodichloro-methane / 134%/130%/A / None<br>Carbon disulfide / 66%/70%/A / UJ<br>1,2-Dichloroethane / 132%/A/A / None<br><br>A= Acceptable | X | Carbon disulfide in sample 15 qualified UJ. | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| MS/MSD RPD | RPD ≤20% (aqueous) and ≤40% (Soils) J – detects in MS sample<br>UJ-non detects<br>* recalculate RPD | 1. All MS/MSD RPD for sample BN-9-30-MW227 (15). were within the QC limits.<br><br>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)<br>2) If one >PQL, other ND, J-detections, UJ non-detect<br>3) Other conditions use judgement<br>4) Determine RPD for detects only.<br>*Recalculate the concentrations for one compound and the PQL | 1. Sample BN-9-30-MW-XD3 (15) was collected as field duplicate for sample BN-9-30-MW227 (16). All RPD between the native sample and field duplicate was acceptable with the following exception:<br>Methyl Tert Butyl ether (MTBE). This compound was qualified estimated (J) in sample 15 and estimated (UJ) in sample 16. | X | MTBE qualified J in sample 15 and UJ in sample 16. | |
| *MDL Study | 1) *In accordance with 40CFR – seven replicates %RSD < 20%<br>2) * IS and retention times within method requirements<br>5) * performed annually<br>6) *MDL is at least ½ of PQL<br>7) *tgt and surrogate 80-120% R<br>8) *VOA/SV-X11 (recalcuate %RSD and %R for three compounds (10% of them). | NA | - | - | |
| Internal Standards | 1) IS are –50% to 200% of last Ical, or CCV<br>3) RRT<0.06 (30 sec)<br>4) IS>100% J-detects<br>5) IS<20%CCV NDs – R<br>6) IS>20%CCV <50%CCV NDs – UJ<br>7) *check for IS transcription errors | All IS %R and RTs are within Method limits. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Sensitivity | 1) MDL study – 7 replicates (40 CFR)<br>2) Surrogates %in control limits.<br>3) %R <10 ND- (R) , J- detects<br>4) 10%> but <LCL% , judgement<br>5) %R>UCL% J-detects<br>4) QC, IS, RRT meet criteria,<br>5) %RSD < 20%<br>6) MDL< MQL (3x less ideal)<br>7) Lab fortitied blank (see VOA/SV Part II – section X).<br>8) *Check and recalculate %RSDs and %R for three compounds (with 10% of lab)<br><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)<br>2) *Recalculate one detection and quantitation limit<br>3) *verify concentrations have been adjusted to account for DW, DF,<br>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<br>3) *Matrix effects- MS/MSD, surrogated, PDS.<br>4) *System chromatography- evaluate RRTs, peaks shapes, system impacts on data, baseline shifts.<br>5) *overall system contamination-review all blanks for systemic or sporadic contamination | NA | - | - | |
| *TGT Compound Identification | 1) *Within 0.06 (30 sec) of CCV RRT<br>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.<br>3) *chromatogram: all peaks greater than 10% of nearest IS identified. | NA | - | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Single Blind PE | 1) Qualify associated samples in PES batch PES = ND, Detects J – ND PE analytes in samples, NDs – R<br>6) PES > acceptance criteria – Detects in samples J,<br>7) PES<acceptance criteria – Detects J, NDs –R<br>8) VOA/SV-XI14 other criteria<br>9) *% of PES sample above and below criteria<br>10) *Recalculate concentrations for one tgt compound per PES (10% of lab) | NA | - | - | |
| Tune check | 1) ion abundance with method limits<br>2) *check for co-elution /proper background subtratction<br>3) *compare reported data to raw data | All tunes passed method criteria. | X | - | |
| Initial Cal Multipoint (instrument evaluation) | 1) correct calibration stds<br>2) within 12 hours of the tune check<br>3) CCCs %RSD: <30% (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC ( J –detects, R or UJ NDs all samples associated with Ical)<br>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)<br>5) RRF>0.05 all compounds<br>6) RRT < 0.06 units (all stds within 30 sec)<br>7) *verify that instrument parameters met method and that Ical and analysis used the same parameters<br>8) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values.<br>9) *recalculate one tgt compound associated with each IS. Recalculated values within 10%.<br>10) *option-review preparation logs to ensure cal stds are traceable to NIST stds.<br>11) *option-recalculate cal std concentration of one std. Must agree within 10% of lab<br>(option if information is in data package) | 1.Instrument: GCMSP<br>ICAL: 04/17/2007. Initial calibration met the established criteria. | X | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**VOC's: SW-846 8260B**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| 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<br>2) RRF all compounds > 0.05<br>*3)* CCC: (1,1 DCA, chloroform, 1,2dichloropropane, Toluene, EB, VC) %**D<20% (or** all analytes if no CCCs reported).<br>*4)* Lab method limits for non SPCC/CCC's.<br>5) Qualification-J detects, R or UJ NDs<br>6) *verify same instrument and parameters<br>7) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10% )<br>8) *Recalculate %D for one tgt cmpd associated with each IS (within 10%)<br>9) *IS RRT<0.06 units (30 sec)<br>10) * IS area -50 % to 100 % of last ICAL<br>11) *option-review preparation logs to ensure cal stds are traceable to NIST stds.<br>12) *option-recalculate cal std concentration of one std. Must agree within 10% of lab<br>(option if information is in data package) | 1. All %D's and RRF in CCV analyzed on 05/01/2007 was acceptable with the following exceptions:<br>Chloromethane (23.2%), Bromomethane (34.0%), chloroethane (36.2%), Methylene chloride (23.5%), trans-1,2-dichloroethene (27.2%), Carbon disulfide (38.8%), cis-1,2-dichloroethene (24.6%), cis-1,3-dicloropropene (23.0%) and trans-1,3-dicloropropene (26.3%).<br><br>**Laboratory Sample ID** / **Compound** / **Action**<br>1,2,5,7,8,11, 13,15 and 16 / Chloromethane / UJ<br>Bromomethane / UJ<br>chloroethane / UJ<br>Methylene chloride / UJ<br>trans-1,2-dichloroethene / UJ<br>Carbon disulfide / UJ<br>cis-1,2-dichloroethene / J/UJ<br>cis-1,3-dicloropropene / UJ<br>trans-1,3-dicloropropene / UJ | X | Chloromethane Bromomethane chloroethane Methylene chloride trans-1,2-dichloroethene Carbon disulfide cis-1,2-dichloroethene cis-1,3-dicloropropene trans-1,3-dicloropropene were qualified UJ in samples: 1,2,5,7,8, 11,13,15 and 16 with the exception of cis-1,2-Dichloroethene in the following samples qualified as estimated (J): 8,15 and 16. | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inventory | QUAL | BIAS |
|---|---|---|---|---|---|
| Overall Evaluation of Data | 1) Appropriate method<br>2) Evaluate any analytical problems<br>3) Evaluate sampling errors – field contamination, sample hold times | Analytical Error Evaluation:<br>1. ICAL: has acceptable fit for all reported compounds.<br>2. CCV:<br>2.1 %D for Chloromethane, Bromomethane, chloroethane, Methylene chloride, trans-1,2-dichloroethene ,Carbon disulfide, cis-1,2-dichloroethene,cis-1,3-dicloropropene and trans-1,3-dicloropropene were outside the QC limits. These compounds were qualified as estimated ( UJ) in samples: 1,2,5,7,8,11,13,15 and 16 with the exception of cis-1,2-Dichloroethene in the following samples qualified as estimated (J): 8,15 and 16.<br><br>3. Laboratory accuracy was acceptable with the exception of Carbon disulfide recovered below the QC limits. All non detect results were qualified as estimated (UJ)<br><br>4. MS and MSD were performed on sample BN-9-30-MW227 (15). All %REC were within the QC limits with the following exception:<br>4.1 Carbon disulfide in sample 15 qualified UJ.<br><br>Sampling Error Evaluation:<br>1. Field duplicate precision was acceptable with the exception of Methyl Tert Butyl Ether. | X | - | |

* Tier III review items only.

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

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**SVOC: SW-846 8270C**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| Data Validation Level | Matrix | Preservation | Temperature Sample Receipt | Laboratory | SDG Number |
|---|---|---|---|---|---|
| Tier II | Aqueous | - | Three (3) sample coolers were received by ACCUTEST on 04/20/2007 at 3.1, 2.7 and 2.1°C | ACCUTEST Laboratories, Marlborough, MA 01752 | M64253 |

**Field Identification of Samples Evaluated:**

| Field ID | Lab Sample Number | Sample Status |
|---|---|---|
| BN-9-30-MW70 | M64253-3 | |
| BN-9-30-MW-XD1 | M64253-4 | Field Duplicate for Sample M64253-3 |
| BN-9-30-MW71 | M64253-6 | |

*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: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**SVOC: SW-846 8270C**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| COC, Sample Delivery Group Form. | 1) Unbroken custody (accept or if broken R)<br>2) Temp≤6°C ( Soil-J detects, R -nondetects<br>3) Preserved per method (amber bottles, temperature. J, UJ, or R (function of HT and compound). | 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 samples qualified. | X | - | |
| Holding Time | 1) 7 Days aqueous – 14 days soil (extract 40 days)<br>2) J –detects, UJ or R –nondetects (function of time) | Sample Date(s): 04/18/2007<br>Extracted on: 04/25/2007<br>Analyzed on: 04/26/2007<br>Samples prepared/analyzed within holding times. No samples qualified. | X | - | |
| % Solids Check (SOLIDS) | 30%<Solids: if no sample weight adjustment made (no USACE )<br>1) <10% R entire sample<br>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<br>2) <PQL but >MDL – J –detects (estimated) | 1. All results were within the linear calibration range. No qualifications were required. | X | - | |
| Tentatively Identified Compounds (TIC's) (if reported) | 1) *verify library search for samples and blanks<br>2) verify TICs were not misreported compounds (different fraction or miss in search)<br>3) All TICs – J estimated<br>4) * verify blanks do not contain TIC peaks<br>5) * check TIC assignment spectra to STD spectra<br>6) *review blank and Samples for common lab contaminants | None Reported/not evaluated | - | | |
| Internal Stds | 1) IS are –50% to 200% of CCV<br>1) RRT<0.06 (30 sec)<br>2) IS>100% J-detects<br>3) IS<20%CCV NDs – R<br>4) IS>20%CCV <50%CCV NDs – UJ<br>5) *check for IS transcription errors | 1. Internal standard areas and RT's were within QC limits. No qualifications were required. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Equipment Blank (EB) | < 5x (<10x common) contaminants for aqueous samples<br>– for soil indicate EB (X rules don't apply) | Not applicable. Equipment blank not collected/analyzed with this SDG | - | - | |
| Surrogates | 1. Refer to Table 13-1-S9 in the LTMP (01/06) for water and soil<br>Qualification: >UCL J –detects,<br>%R<10% J –detects, R –NDs,<br>%R >10% but <LCL% J-detects, UJ NDs | 1. All surrogate recoveries in the initial extractions were within the QC limits. No qualifications were required. | X | - | |
| Laboratory Method Blanks (MB) | 1) < 5x (<10x common) contaminants – U<br>2) analytes <lab PQL (contract lab)<br>3) no phthalates >5X QL (QAPP) | 1. Method Blank (OP13408-MB) extracted on 04/25/2007 and analyzed on 04/26/2007 was free of contaminations. No qualifications were required. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Laboratory Control Sample (LCS) Recovery | 1) LCS/LCSD acceptance limits in Table 7-3-S9 (LTMP 01/06)<br>10% and <LCL% J detects, UJ –NDs<br>>UCL% J detects <10% R NDs, J-detects | LCS/LCSD (OP13408) was analyzed on 04/26/2007. All LCS %R's were within QC limits with the following exceptions:<br><br>1. Dimethyl phthalate recovered below QC limits. The non-detect result for this compound was qualified as estimated (UJ) in the following samples: 3,4 and 6. | X | Dimethyl phthalate qualified UJ in samples: 3,4 and 6. | |
| Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery | 1) Within historical laboratory limits (QAPP) (if MS > 4X native levels)<br>Qualification of MS sample: <10% J detects, R NDs<br>>10% and <70% J detects, UJ -NDs<br>>130% J detects | 1. MS and MSD were performed on sample BN-9-30-MW70 (3). All %REC were within the QC limits with the following exception:<br><br>Compound \| %R/%R/RPD \| Action<br>Dimethyl Phtalate \| 36%/37%/A \| UJ<br>3-Nitroaniline \| 45%/40%/A \| UJ<br><br>A= Acceptable | X | Dimethyl phthalate and 3-Nitroaniline qualified UJ in sample 3 | |
| MS/MSD RPD | RPD ≤20% aqueous <40% soil J –detects in MS sample<br>UJ-non detects | 1. All MS/MSD RPD were within the QC limits. No qualifications were required. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inve n- tory | QUAL | BIA S |
|---|---|---|---|---|---|
| Cleanup Performance Check (if performed) | %R< 10% NDs-R detections J<br>%R>10% <LCL (80%GPC) –detections J, NDs UJ<br>%R>UCL (120%) – detections J<br>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.<br>Symetrical peaks for all compounds, | NA | - | - | |
| Tune Check | Tune check within method parameters for DFTPP | The raw data sheets were used for validation. CCV tune check within limits. | X | - | |
| DDT degradation Instrument performance check | 1) Breakdown <20% DDT<br>2) benzidine and pentachlorophenol at normal response - no peak trailing (<3.0 benz. , <5.0 penta.)<br>Detections – J | 1. Degradation checks was analyzed but not reported with associated tune checks.<br><br>2. Benzidine and Pentachlorophenol tailing factor were acceptable. No qualifications were required. | X | - | |
| Field Duplicate RPD | 1) RPD ≤ 30% water; ≤ 50% soil for Results > PQL (FD pair only) J-detects (both > PQL)<br>2) If one > PQL, other ND, J-detections, UJ non-detect<br>Other conditions use judgment | 1. Sample BN-9-30-MW-XD1 was collected as field duplicate for sample BN-9-30-MW70. Both samples were reported as non detects. No qualifications were required. | X | - | |
| Compound Quantitation | 1) Check sensitivy (MDL< 1/3 PQL or per QAPP) | For target SVOCs the MDL< 1/3 PQL. Analytical sensitivity is adequate. Reporting limits are below the monitoring criteria for all compounds. | X | - | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Initial Cal (Linearity) | Correct calibration stds<br>%RSD < 15% use average RF for calibration<br>%RSD> 15% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995<br>or alternatively mean %RSD <15% for all target analytes, with no analyte %RSD>30% or %RSD<30% each target analyte<br>1) CCCs %RSD: <30% (acenatphthene, 1,4 dichlorobenzene, hexachlorobutadiene, dipheynlamin, di-n-octyl phthalate, fluoranthene, benzo(a)pyrene, 4-chloro-3-methylphenol, 2,4, dichlorophenol, 2-nitrophenol, phenol, pentachlorophenol, 2,4,6 trichlorophenol)<br>J –detects, R or UJ NDs all samples associated with Ical)<br>2) SPCCs Average RRF > 0.05: SPCCs n-nitroso-di-n-propylamine, hexachlorcyclopentdiene, 2,4 dinitrophenol, 4-nitrophenol.<br>(J –detects, R NDs)<br>3) RRF>0.05 all target compounds RRT < 0.06 units (all stds within 30 sec)<br>4) *verify that instrument parameters met method and that Ical and analysis used the same parameters<br>5) *recalculate RRF one tgt compound associated with each IS. Recalculated values within 10% of lab values.<br>6) *recalculate one tgt compound associated with each IS. Recalculated values within 10%<br>7) *option-review preparation logs to ensure cal stds are traceable to NIST stds.<br>8) *option-recalculate cal std concentration of one std. Must agree within 10% of lab | 1. Instrument: F<br>Date: 03/21/2007<br>RRF>0.05 all SVOCs.<br>RSD<15% and/or COD>0.99 criteria used for linearity of SVOC Ical. Acceptable linearity.<br><br>No samples qualified based on ICAL. | X | - | |
| 2nd Source ICV | %D ≤ 25%, (+ or -) once per 5 pt cal<br>Qualification: J detects, R or UJ NDs | Instrument: F<br>Date: 03/21/2007<br>All %Ds within QC limits for all compounds of concern with the following exception: 4-Chloroaniline (57.1%), 3-Nitroaniline (26.6%), and 3,3'-Dichlorobenzidine. All results for these compounds were qualified as estimated (UJ) in samples 3,4 and 6. | X | 4-Chloroaniline , 3-Nitroaniline and 3,3'-Dichlorobenzidine in samples 3,4 and 6 qualified UJ. | |

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| CCV | 1) SPCCs Average RRF: SPCCs n-nitroso-di-n-propylamine, hexachlorcyclopentdiene, 2,4 dinitrophenol, 4-nitrophenol.<br>2) RRF all compounds > 0.05<br>3) CCC: (acenatphthene, 1,4 dichlorobenzene, hexachlorobutadiene, dipheynlamin, di-n-octyl phthalate, fluoranthene, benzo(a)pyrene, 4-chloro-3-methylphenol, 2,4, dichlorophenol, 2-nitrophenol, phenol, pentachlorophenol, 2,4,6 trichlorophenol)<br>4) %D<20%. CCCs (QAPP -except surrogates).<br>5) Qualification-J detects, R or UJ Nods<br>6) %D<25% all compounds (Tier I).<br>7) RRF exclusions: surrogates,<br>8) *verify same instrument and parameters<br>9) *Recalculate RRF for one tgt cmpd associated with each IS. (within 10% )<br>10) *Recalculate %D for one tgt cmpd associated with each IS (within 10%)<br>11) *IS RRT<0.06 units (30 sec)<br>12) * IS area -50 % to 100 % of last ICAL<br>13) *option-review preparation logs to ensure cal stds are traceable to NIST stds.<br>14) *option-recalculate cal std concentration of one std. Must agree within 10% of lab (option if information is in data package) | 1. Instrument: P<br>Date: 04/26/2007<br>%D within MPC limits for all compounds. No qualifications were required. | X | | |
| Overall Evaluation of Data | 1) Appropriate method<br>2) Evaluate any analytical problems<br>3) Evaluate sampling errors – field contamination, sample hold times | <u>Analytical Error Evaluation:</u><br>1.ICAL; linear.<br>2. CCV: within criteria.<br>3. Method Blank was free of contaminations.<br>4. Dimethyl phthalate in the LCS recovered below QC limits. Non detected results were qualified UJ in samples 3,4 and 6.<br>5.MS and MSD were performed on sample BN-9-30-MW70 (3). All %REC were within the QC limits with the following exception:<br>5.1 Dimethyl phthalate and 3-Nitroaniline in sample 3 qualified UJ.<br><br><u>Sampling Error Evaluation:</u><br>Field duplicate precision was acceptable | X | - | |

*Tier III criteria.

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

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**ME-DRO: 4.1.25 9/95**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| Data Validation Level | Matrix | Preservation | Temperature Sample Receipt | Laboratory | SDG Number |
|---|---|---|---|---|---|
| Tier II | Aqueous | - | Three (3) sample coolers were received by ACCUTEST on 04/20/2007 at 3.1, 2.7 and 2.1°C | ACCUTEST Laboratories, Marlborough, MA 01752 | M64253 |

**Field Identification of Samples Evaluated:**

| Field ID | Lab Sample Number | Sample Status |
|---|---|---|
| BN-9-30-MW74 | M64253-9 | |
| BN-9-30-MW-XD2 | M64253-10 | Field Duplicate for Sample M64253-9 |
| BN-9-30-MW75 | M64253-12 | |
| BN-9-30-MW76 | M64253-14 | |

*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: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**ME-DRO: 4.1.25 9/95**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| 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)<br>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) | Sample temperature <6 $^{o}$C.<br>Sample custody transferred from Field Team Leader to lab sample courier in person. Unbroken Chain of Custody.<br>No samples were qualified. | X | - | |
| Holding Time | 1) 7 Days aqueous – 14 days soil (extract 40 days)<br>2) J –detects, UJ or R –nondetects (function of time) | Sample Date: 04/18/2007<br>Extraction Date: 04/24/2007<br>Analysis Date: 05/02/2007<br>Samples prepared/analyzed within holding times. No samples qualified. | X | - | |
| % Solids Check (SOLIDS) | 30%<Solids: if no sample weight adjustment made (no USACE )<br>1) <10% R entire sample<br>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<br>2) <PQL but >MDL – J –detects (estimated) | Data reported between the MDL and the MRL is qualified as estimated (J).<br>Results for both samples were qualified J as they were > MDL but < MRL. | X | - | |
| Equip Blank | < 5x (<10x common) contaminants for aq samples<br>– for soil indicate EB (X rules don't apply) | No equipment blank was associated with this SDG. | - | - | |
| Surrogates | Within historical laboratory limits (51-133%)<br>Qualification: >UCL J –detects,<br>%R<10% J –detects, R –NDs,<br>%R >10% but <LCL% J-detects, UJ NDs | 1. 1-Chlorooctadecane recovered in sample 10 at 135% above the QC limits. DRO was not detected in the sample. No qualifications were required. | X | - | |
| Laboratory Blanks (method blanks) | 1) < 5x (<10x common) contaminants – U<br>2) analytes <lab PQL (contract lab)<br>3) no phthalates >5X QL (QAPP) | 1. Method blank (OP 3406-MB) associated with samples 9-10, 12 and 14 was free of contaminations. No qualifications were required. | X | - | |
| Laboratory Control Sample (LCS) Recovery | 1) Within historical laboratory limits listed in (QAPP) (61-140%).<br>10% and <LCL% J detects, UJ –NDs<br>>UCL% J detects <10% R NDs, J-detects | 1. LCS (OP13406-BS) associated with samples 9-10, 12 and 14 was 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)<br>Qualification of MS sample: <10% J detects, R NDs<br>>10% and <60% J detects, UJ -NDs<br>>140% J detects | 1. MS and MSD were performed on sample 09. MS/MSD recoveries within MPC limits. No qualifications were required. | X | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**ME-DRO: 4.1.25 9/95**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n- tory | QUAL | BIA S |
|---|---|---|---|---|---|
| Cleanup Performance Check (if performed) | %R< 10% NDs-R detections J<br>%R>10% <LCL (80%GPC) –detections J, NDs UJ<br>%R>UCL (120%) – detections J<br>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.<br>Symmetrical peaks for all compounds, | NA | - | - | |
| Lab Duplicate RPD | RPD ≤30% aqueous, J –detects in MS sample<br>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<br>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)<br>2) If one > PQL, other ND, J-detections, UJ non-detect<br>Other conditions use judgment | 1. Sample BN-9-30-MW-XD2 was collected as field duplicate for sample BN-9-30-MW74. Both samples were reported as non detects. No qualifications were required. | X | - | |
| Initial Cal (Linearity) | Correct calibration stds<br>%RSD < 20% use average RF for calibration<br>%RSD> 20% use least squares COD (r2) > 0.990 or correlation coefficient r> 0.995<br>or alternatively mean %RSD <15% for all target analytes, with no analyte %RSD>30% or %RSD<30% each target analyte | Instrument: GCBC<br>Date: 03/5/2007<br>RSD<20%<br>Acceptable linearity.<br>No samples qualified based on ICAL. | X | - | |
| 2nd Source ICV | %R (between ICV and Ical) analytes 80%--120% (USACE)<br>%D ≤ 20%, (+ or -) once per 5 pt cal<br>Qualification: J detects, R or UJ NDs | ICV for Instrument: GCBC<br>Date: 03/05/2007<br>%D within MPC limits. Linearity of ICAL confirmed. | X | - | |
| CCV | %D ≤ 20% of the excepted response | 1. CCV's analyzed on 05/02/2007 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 | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 09**
**ECC Job No.: 5700.007**

**ME-DRO: 4.1.25 9/95**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIA S |
|---|---|---|---|---|---|
| Overall Evaluation of Data | 1) Appropriate method<br>2) Evaluate any analytical problems<br>3) Evaluate sampling errors – field contamination, sample hold times | Analytical Problems:<br>The laboratory accuracy and precision are acceptable. Results are usable for making project decisions as qualified.<br>LCS, surrogate, MS/MSD recoveries and MS/MSD RPDs within MPC limits.<br>Method blank was free of contaminations.<br>ICAL; linear.<br>ICV: within MPC limits.<br>CCV: within MPC limits.<br><br>Sampling Errors:<br>RPD between the native sample and field duplicate was within the QC limits.<br>Sampling precision was acceptable. | X | - | |

*Tier III criteria.

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

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

| Data Validation Level | Matrix | Preservation | Temp Sample Receipt | Laboratory | SDG Number |
|---|---|---|---|---|---|
| Tier II | Aqueous | HNO3 | Three (3) sample coolers were received by ACCUTEST on 04/20/2007 at 3.1, 2.7 and 2.1°C | ACCUTEST Laboratories, Marlborough, MA 01752 | M64253 |

**Field Identification of Samples Evaluated:**

| Field ID | Lab Sample Number | Sample Status |
|---|---|---|
| BN-9-30-M70 | M64253-3 | |
| BN-9-30-MW-XD1 | M64253-4 | Field Duplicate for Sample M64253-3 |
| BN-9-30-MW71 | M64253-6 | |

*Note: Samples are described below in the data worksheets by reference to the last two digits of 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)<br>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) | Cooler temperatures < 6°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 samples qualified. | X | - | |
| Holding Time | 1) 180 days (6010), Hg 28 Days to analysis<br>2) J –detects, UJ or R –nondetects (function of time) | 1. All water samples were prepared/analyzed within holding times. No qualifications were required. | X | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

<table>
<tr><th>REVIEW ITEMS</th><th>ACCEPTANCE CRITERIA</th><th>SAMPLES AFFECTED Narrative (samples listed on attached sheets)</th><th>Inve n-tory</th><th>QUAL</th><th>BIAS</th></tr>
<tr><td>Laboratory Duplicate</td><td>1) RPD < 20%<br>1) If both values > PQL<br>2) Qualify samples in batch: detects J, NDs UJ</td><td>1. Laboratory Duplicate was performed on sample -3. RPD for following elements were >20%: Beryllium, Copper, Nickel and Vanadium.<br><table><tr><th>Element</th><th>Sample</th><th>Action</th></tr><tr><td>Beryllium</td><td>3, 6<br>4</td><td>J<br>UJ</td></tr><tr><td>Copper</td><td>3,4, 6</td><td>J</td></tr><tr><td>Nickel</td><td>3, 4, 6</td><td>J</td></tr><tr><td>Vanadium</td><td>3,6<br>4</td><td>J<br>UJ</td></tr></table></td><td>X</td><td>Be and V in samples 3 and 6 qualified J. Sample 4 qualified UJ.<br><br>Cu and Ni in samples 3, 4, 6 qualified J.</td><td></td></tr>
<tr><td>Laboratory Control Sample (LCS) Recovery</td><td>1) once per sample batch<br>2) 75-125% water, soil, QAPP limits.<br>3) <LCL% Reject<br>4) >UCL% detects J</td><td>1. All LCS %R's acceptable. No samples qualified.</td><td>X</td><td>-</td><td></td></tr>
<tr><td>Field Duplicate RPD</td><td>1) RPD ≤ 30% water &<50% soil for Results > X PQL (FD pair only) J-detects (both > X PQL)<br>2) If one >X PQL, other ND, J-detections, UJ non-detect</td><td>1. Sample BN-9-30-MW-XD1 (3) was collected as field duplicate for sample BN-9-30-M70 (4).<br>1.1 Beryllium, Chromium, Iron, Manganese and Vanadium in sample 3 qualified J.<br>1.2 Beryllium and Vanadium in sample 4 qualified UJ.<br>1.3 Iron and Manganese in sample 4 qualified J.<br>1.4 Mercury qualified J in 3 and UJ in 4.<br><br>Please refer to Field Duplicate Summary Table.</td><td></td><td>Be, Cr, Fe, Mn and V in sample 3 qualified J Be and V in sample 4 qualified UJ Fe and Mn in sample 4 qualified J. Hg in sample 3 qualified UJ and J in sample 4</td><td></td></tr>
<tr><td>% Solids Check (SOLIDS)</td><td>30%<Solids: if no sample weight adjustment made<br>1) <10% R entire sample<br>2) 10%.> and <30%; J-detects, NDs -R</td><td>1. All % Solids in the sediment samples were >30%. No qualifications were required.</td><td>X</td><td>-</td><td></td></tr>
</table>

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Laboratory Blanks (method blank or preparation blank) | 1) Once per sample batch<br>2) Results> QL; sample results <5X ; sample result U (nd)<br>3) Sample results >5X blank level; no action | ICP-AES, ICP-MS and CVAA:<br><br>1. All Method Blanks were free of contaminations. No qualifications were required. | X | - | |
| Matrix Spike (MS) Recovery | 1) 75-125% GFAA/ICP if MS > 4X native levels)<br>Qualification of MS sample:<br>2) <30% J detects, R NDs<br>3) 30%--74%, detects J, NDs UJ<br>>125% J detects | 1. MS was performed on sample BN-9-30-M70 (3). All %REC's were within the QC limits. No qualifications were required. | X | - | |
| Sensitivity* | 1) MDL study – 7 replicates (40 CFR)<br>2) Surrogates %R 80-120%,<br>1) %R <10 ND- (R) , J- detects<br>2) 10%> but <80% , judgement<br>3) %R>120% J-detects<br>4) %RSD < 20%<br>5) MDL< MQL (3x less ideal)<br>6) Lab fortified blank (see VOA/SV Part II – section X).<br>*Check and recalculate %RSDs and %R fir three compounds (with 10% of lab) | MRL< OM RL | X | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Equipment Blank | < 5x contaminants for aqueous samples<br>– for soil indicate EB (X rules don't apply) | Equipment blank not collected/analyzed with this SDG as the equipment was dedicated. | - | - | |
| Negative blanks | If negative values are reported for an analyte with absolute value >DL and sample value is <5X the absolute value of the blank or is nondetect Qualify detects as estimated (J) Nondetects as estimated (UJ) | No negative blank detections for target metals. No samples qualified. | X | - | |
| Initial Calibration Blanks (ICB) | 1) ICB after ICAL<br>2) Results > QL; sample results <5X ; sample result U (ND)<br>3) Sample results >5X blank level; no action | ICP-AES, ICP-MS and CVAA:<br><br>1. All ICB's were free of contaminations. No qualifications were required. | X | - | |
| Continuing Calibration Blanks (CCB) | 1) CCB every 10 samples end of run<br><br>2) Results > QL; sample results <5X ; sample result U (ND)<br><br>3) Sample results >5X blank level; no action | ICP-AES, ICP-MS and CVAA:<br><br>1. All CCB's were free of contaminations. No qualifications were required. | X | - | |
| Serial Dilution | 1) once per digestion batch<br>2) Meets method limits (RPD 10%).<br>3) Metal results >50X MDL levels. | 1. Serial Dilution was performed on sample BN-9-30-M70 (3). K RPD was 108% outside the QC limits. All positive results in samples 3, 4 and 6 were qualified as estimated (J). | X | Potassium qualified as estimated (J) in samples: 3,4 and 6. | |
| Interelement checks ICS-A, ICS-AB Instrument performance check | 1) start of sequence<br>2) 80-120% target analytes<br>3) >120% ; detects J (ICS-AB)<br>4) 50%-79% R ICS-AB; detects J, NDs – UJ<br>5) <50% R – reject data<br>6) ICS-A response > DL and samples have <5X ICS-A response: detects J<br>7) Absolute value of negative ICS-A response>DL and sample detects <5X ICS-A response: detects J, NDs as UJ<br>8) If the ICS-A is within limits, the ICS-AB may not be analyzed (USACE Shell) | ICS's %R's within MPC limits for COC elements. No samples qualified. | X | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Initial Cal Multipoint | 1) 6010: 1 std and blank and low-level check at MQL – check std 20%<br>2) 3 stds and a blank- R = 0.995 | ICAL performed according to method. Two point calibration and check standards. The pre-analysis check standard was within limits. | X | - | |
| 2nd Source ICV | 1) following calibration<br>2) 90- 110% Recovery (6010/7000 )<br>3) 75%-89% R – detects J, NDs – UJ<br>4) 111-125% R – detects J<br>outside 75-125% R – reject data ( R ) | Within limits of MPC. No samples qualified. | X | - | |
| CCV | 1) every 10 samples and end of run<br>2) 90- 110% Recovery (6010) Hg; 80-120%<br>3) 6010: 75%-89% R Hg, 65-79% R; – detects J, NDs – UJ.<br>4) 6010: 111-125%, Hg: 121-135% detects J<br>6010: outside 75-125%, Hg; outside 65-135%; R – reject data ( R ) | Within limits of MPC. No samples qualified. | X | - | |
| Post Digestion Spike | 1) 75- 125% R | NA | - | - | |
| *MDL Study | 1) *In accordance with 40CFR – seven replicates %RSD < 20%<br>2) * IS and retention times within method requirements<br>3) * performed annually<br>4) *MDL is at least ½ of PQL<br>*tgt and surrogate 80-120% R | NA | - | - | |
| *System Performance | 1)* evaluate PES, MS//MSD, cal STDs, MDS study, and surrogates for systemic bias – high or low and access system accuracy<br>1) *Matrix effects- MS/MSD, surrogated, PDS.<br>2) *overall system contamination-review all blanks for systemic or sporadic contamination | NA | - | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II**
**Guidance and QAPP**
**(January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| *Single Blind PE | 1) Qualify associated samples in PES batch PES = ND, Detects J – ND PE analytes in samples, NDs – R<br>3) PES > acceptance criteria – Detects in samples J,<br>4) PES<acceptance criteria – Detects J, NDs –R<br>5) VOA/SV-XI14 other criteria<br>6) *% of PES sample above and below criteria<br>*Recalculate concentrations for one tgt compound per PES (10% of lab) | NA | - | - | |

**H&S Environmental Region I Data Review Worksheet**
**Project Location: NAS Brunswick**
**Project Name: Site 9**
**ECC Job No.: 5700.007.015.440**

**Metals 6010B, 6020A, 7470A and 7471A**
**Review Criteria: Region I Tier II Guidance and QAPP (January 2006)**

| REVIEW ITEMS | ACCEPTANCE CRITERIA | SAMPLES AFFECTED Narrative (samples listed on attached sheets) | Inve n-tory | QUAL | BIAS |
|---|---|---|---|---|---|
| Overall Evaluation of Data | 1) Appropriate method<br>2) Evaluate any analytical problems<br>3) Evaluate sampling errors – field contamination, sample hold times | <u>Analytical Problems:</u><br>1. Sample results are usable for project decision making, as qualified. Laboratory accuracy and precision is acceptable.<br><br>2. Accuracy is shown by the LCS being within MPC limits.<br><br>3.The ICS-A, and ICS-AB were within limits for all elements.<br><br>4.Lab duplicates RPDs were within LTMP limits acceptable with the following exceptions:<br>4.1 RPDs for following elements were >20: Be and V in samples 3 and 6 qualified J. Sample 4 qualified UJ.<br>4.2 Cu and Ni in samples 3, 4, 6 qualified J.<br>5. Method Blanks were free of contaminations.<br>6. Matrix spike %REC's were within the QC limits.<br><br>7. Serial dilution:<br>7.1. K RPD was outside the QC limits. All positive results in samples 3, 4 and 6were qualified as estimated (J).<br><br><u>Sampling Error:</u><br>Sample BN-9-30-MW-XD1 (3) was collected as field duplicate for sample BN-9-30-M70 (4).<br>1.1 Beryllium, Chromium, Iron, Manganese and Vanadium in sample 3 qualified J.<br>1.2 Beryllium and Vanadium in sample 4 qualified UJ.<br>1.3 Iron and Manganese in sample 4 qualified J.<br><br>1.4 Mercury qualified J in 3 and UJ in 4. | X | - | |

*TIER III DATA VALIDATION ONLY Completeness Check: Inventory Check Sheet___X_Sample Quantitation Calculations (TIER III DATA VALIDATION ONLY):

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | | ug/l | UJ | 0.36 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-QT1 | M64253-1 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW-XD2 | M64253-10 | ME41259/95 | 04/18/07 | 1 | ME-DRO (C10-C28) | 0.0668 | mg/l | J | 0.056 | 0.089 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | | ug/l | UJ | 0.36 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Acetone | 5.3 | ug/l | | 2.8 | 5.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | 68.2 | ug/l | | 0.31 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW75 | M64253-11 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW75 | M64253-12 | ME41259/95 | 04/18/07 | 1 | ME-DRO (C10-C28) | | mg/l | U | 0.050 | 0.080 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | | ug/l | UJ | 0.36 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Acetone | 6.3 | ug/l | | 2.8 | 5.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW76 | M64253-13 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW76 | M64253-14 | ME41259/95 | 04/18/07 | 1 | ME-DRO (C10-C28) | 0.0681 | mg/l | J | 0.050 | 0.080 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | 2.7 | ug/l | J | 0.36 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | 0.43 | ug/l | J | 0.14 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | 2.7 | ug/l | | 0.36 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | Trichloroethene | 3.1 | ug/l | | 0.30 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW227 | M64253-15 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | 2.2 | ug/l | J | 0.36 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | UJ | 0.14 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | 2.2 | ug/l | | 0.36 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | Trichloroethene | 2.3 | ug/l | | 0.30 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW-XD3 | M64253-16 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | | ug/l | UJ | 0.36 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Acetone | 7.0 | ug/l | | 2.8 | 5.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | 4.5 | ug/l | | 0.31 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW22 | M64253-2 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-M70 | M64253-3 | SW8466020 | 04/18/07 | 2 | Lead | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-M70 | M64253-3 | SW8466020 | 04/18/07 | 2 | Thallium | | ug/l | U | 0.046 | 1.0 |
| BN-9-30-M70 | M64253-3 | SW8466020 | 04/18/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-30-M70 | M64253-3 | SW8466020 | 04/18/07 | 2 | Arsenic | | ug/l | U | 1.9 | 2.0 |
| BN-9-30-M70 | M64253-3 | SW8466020 | 04/18/07 | 2 | Selenium | | ug/l | U | 0.88 | 10 |
| BN-9-30-M70 | M64253-3 | SW8467470A | 04/18/07 | 1 | Mercury | | ug/l | UJ | 0.018 | 0.20 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Aluminum | | ug/l | U | 19.0 | 200 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Iron | 18.8 | ug/l | J | 6.3 | 100 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Magnesium | 1870 | ug/l | J | 6.6 | 5000 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Manganese | 48.8 | ug/l | J | 0.24 | 15 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Nickel | 1.3 | ug/l | J | 0.47 | 40 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Potassium | 618 | ug/l | J | 5.5 | 5000 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Silver | | ug/l | U | 0.31 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Sodium | 12800 | ug/l | | 80.0 | 5000 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Barium | 14.6 | ug/l | J | 0.86 | 200 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Beryllium | 0.28 | ug/l | J | 0.25 | 4.0 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Cadmium | | ug/l | U | 0.22 | 4.0 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Chromium | 0.64 | ug/l | J | 0.30 | 10 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Cobalt | 2.4 | ug/l | J | 0.61 | 50 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Copper | 1.0 | ug/l | J | 0.81 | 25 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Vanadium | 0.64 | ug/l | J | 0.35 | 30 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Zinc | 5.3 | ug/l | J | 0.36 | 20 |
| BN-9-30-M70 | M64253-3 | SW8466010B | 04/18/07 | 1 | Calcium | 20000 | ug/l | | 6.6 | 5000 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4-Nitroaniline | | ug/l | U | 0.22 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4-Nitrophenol | | ug/l | U | 1.0 | 20 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4-Bromophenyl phenyl ether | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,4-Dimethylphenol | | ug/l | U | 0.83 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.25 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4-Chloroaniline | | ug/l | UJ | 0.79 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroisopropyl)ether | | ug/l | U | 0.22 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Phenol | | ug/l | U | 0.31 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroethyl)ether | | ug/l | U | 0.78 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroethoxy)methane | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | bis(2-Ethylhexyl)phthalate | | ug/l | U | 2.3 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Di-n-octyl phthalate | | ug/l | U | 0.22 | 5.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Hexachlorobenzene | | ug/l | U | 0.27 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Anthracene | | ug/l | U | 0.16 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 1,2,4-Trichlorobenzene | | ug/l | U | 0.28 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,4-Dichlorophenol | | ug/l | U | 0.49 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,4-Dinitrotoluene | | ug/l | U | 0.20 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Pyrene | | ug/l | U | 0.34 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Dimethyl phthalate | | ug/l | UJ | 0.13 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Dibenzofuran | | ug/l | U | 0.79 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Benzo(g,h,i)perylene | | ug/l | U | 0.80 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Indeno(1,2,3-cd)pyrene | | ug/l | U | 0.44 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Benzo(b)fluoranthene | | ug/l | U | 0.34 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Fluoranthene | | ug/l | U | 0.19 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Benzo(k)fluoranthene | | ug/l | U | 0.45 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Acenaphthylene | | ug/l | U | 0.19 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Chrysene | | ug/l | U | 0.32 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Benzo(a)pyrene | | ug/l | U | 0.30 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,4-Dinitrophenol | | ug/l | U | 1.6 | 20 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Dibenzo(a,h)anthracene | | ug/l | U | 0.67 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4,6-Dinitro-o-cresol | | ug/l | U | 0.30 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.85 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Benzo(a)anthracene | | ug/l | U | 0.28 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4-Chloro-3-methyl phenol | | ug/l | U | 0.43 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,6-Dinitrotoluene | | ug/l | U | 0.44 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | N-Nitroso-di-n-propylamine | | ug/l | U | 0.89 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Hexachloroethane | | ug/l | U | 0.26 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 4-Chlorophenyl phenyl ether | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Hexachlorocyclopentadiene | | ug/l | U | 0.28 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Isophorone | | ug/l | U | 0.25 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Acenaphthene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Diethyl phthalate | | ug/l | U | 0.20 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Di-n-butyl phthalate | | ug/l | U | 0.17 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Phenanthrene | | ug/l | U | 0.92 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Butyl benzyl phthalate | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | N-Nitrosodiphenylamine | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Fluorene | | ug/l | U | 0.21 | 5.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Carbazole | | ug/l | U | 0.86 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Hexachlorobutadiene | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Pentachlorophenol | | ug/l | U | 1.7 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,4,6-Trichlorophenol | | ug/l | U | 0.37 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2-Nitroaniline | | ug/l | U | 0.23 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2-Nitrophenol | | ug/l | U | 0.53 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Naphthalene | | ug/l | U | 0.35 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2-Methylnaphthalene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2-Chloronaphthalene | | ug/l | U | 0.20 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 3,3'-Dichlorobenzidine | | ug/l | UJ | 0.71 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2-Methylphenol | | ug/l | U | 0.51 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2-Chlorophenol | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 2,4,5-Trichlorophenol | | ug/l | U | 1.8 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | Nitrobenzene | | ug/l | U | 0.40 | 5.0 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 3-Nitroaniline | | ug/l | UJ | 0.24 | 10 |
| BN-9-30-M70 | M64253-3 | SW8468270C | 04/18/07 | 1 | 3&4-Methylphenol | | ug/l | U | 0.67 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466020 | 04/18/07 | 2 | Lead | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466020 | 04/18/07 | 2 | Thallium | | ug/l | U | 0.046 | 1.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466020 | 04/18/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466020 | 04/18/07 | 2 | Arsenic | | ug/l | U | 1.9 | 2.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466020 | 04/18/07 | 2 | Selenium | | ug/l | U | 0.88 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8467470A | 04/18/07 | 1 | Mercury | 0.026 | ug/l | J | 0.018 | 0.20 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Aluminum | | ug/l | U | 19.0 | 200 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Iron | 12.9 | ug/l | J | 6.3 | 100 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Magnesium | 1850 | ug/l | J | 6.6 | 5000 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Manganese | 75.0 | ug/l | J | 0.24 | 15 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Nickel | 1.3 | ug/l | J | 0.47 | 40 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Potassium | 622 | ug/l | J | 5.5 | 5000 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Silver | | ug/l | U | 0.31 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Sodium | 13000 | ug/l | | 80.0 | 5000 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Barium | 14.7 | ug/l | J | 0.86 | 200 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Beryllium | | ug/l | UJ | 0.25 | 4.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Cadmium | | ug/l | U | 0.22 | 4.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Chromium | 1.0 | ug/l | J | 0.30 | 10 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Cobalt | 2.3 | ug/l | J | 0.61 | 50 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Copper | 1.3 | ug/l | J | 0.81 | 25 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Vanadium | | ug/l | UJ | 0.35 | 30 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Zinc | 5.8 | ug/l | J | 0.36 | 20 |
| BN-9-30-MW-XD1 | M64253-4 | SW8466010B | 04/18/07 | 1 | Calcium | 19600 | ug/l | | 6.6 | 5000 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4-Nitroaniline | | ug/l | U | 0.22 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4-Nitrophenol | | ug/l | U | 1.0 | 20 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4-Bromophenyl phenyl ether | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,4-Dimethylphenol | | ug/l | U | 0.83 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.25 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4-Chloroaniline | | ug/l | UJ | 0.79 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroisopropyl)ether | | ug/l | U | 0.22 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Phenol | | ug/l | U | 0.31 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroethyl)ether | | ug/l | U | 0.78 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroethoxy)methane | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | bis(2-Ethylhexyl)phthalate | | ug/l | U | 2.3 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Di-n-octyl phthalate | | ug/l | U | 0.22 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Hexachlorobenzene | | ug/l | U | 0.27 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Anthracene | | ug/l | U | 0.16 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 1,2,4-Trichlorobenzene | | ug/l | U | 0.28 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,4-Dichlorophenol | | ug/l | U | 0.49 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,4-Dinitrotoluene | | ug/l | U | 0.20 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Pyrene | | ug/l | U | 0.34 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Dimethyl phthalate | | ug/l | UJ | 0.13 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Dibenzofuran | | ug/l | U | 0.79 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Benzo(g,h,i)perylene | | ug/l | U | 0.80 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Indeno(1,2,3-cd)pyrene | | ug/l | U | 0.44 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Benzo(b)fluoranthene | | ug/l | U | 0.34 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Fluoranthene | | ug/l | U | 0.19 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Benzo(k)fluoranthene | | ug/l | U | 0.45 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Acenaphthylene | | ug/l | U | 0.19 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Chrysene | | ug/l | U | 0.32 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Benzo(a)pyrene | | ug/l | U | 0.30 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,4-Dinitrophenol | | ug/l | U | 1.6 | 20 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Dibenzo(a,h)anthracene | | ug/l | U | 0.67 | 5.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4,6-Dinitro-o-cresol | | ug/l | U | 0.30 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.85 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Benzo(a)anthracene | | ug/l | U | 0.28 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4-Chloro-3-methyl phenol | | ug/l | U | 0.43 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,6-Dinitrotoluene | | ug/l | U | 0.44 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | N-Nitroso-di-n-propylamine | | ug/l | U | 0.89 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Hexachloroethane | | ug/l | U | 0.26 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 4-Chlorophenyl phenyl ether | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Hexachlorocyclopentadiene | | ug/l | U | 0.28 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Isophorone | | ug/l | U | 0.25 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Acenaphthene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Diethyl phthalate | | ug/l | U | 0.20 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Di-n-butyl phthalate | | ug/l | U | 0.17 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Phenanthrene | | ug/l | U | 0.92 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Butyl benzyl phthalate | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | N-Nitrosodiphenylamine | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Fluorene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Carbazole | | ug/l | U | 0.86 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Hexachlorobutadiene | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Pentachlorophenol | | ug/l | U | 1.7 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,4,6-Trichlorophenol | | ug/l | U | 0.37 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2-Nitroaniline | | ug/l | U | 0.23 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2-Nitrophenol | | ug/l | U | 0.53 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Naphthalene | | ug/l | U | 0.35 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2-Methylnaphthalene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2-Chloronaphthalene | | ug/l | U | 0.20 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 3,3'-Dichlorobenzidine | | ug/l | UJ | 0.71 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2-Methylphenol | | ug/l | U | 0.51 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2-Chlorophenol | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 2,4,5-Trichlorophenol | | ug/l | U | 1.8 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | Nitrobenzene | | ug/l | U | 0.40 | 5.0 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 3-Nitroaniline | | ug/l | UJ | 0.24 | 10 |
| BN-9-30-MW-XD1 | M64253-4 | SW8468270C | 04/18/07 | 1 | 3&4-Methylphenol | | ug/l | U | 0.67 | 10 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | | ug/l | UJ | 0.36 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW71 | M64253-5 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW71 | M64253-6 | SW8466020 | 04/18/07 | 2 | Arsenic | 8.3 | ug/l | | 1.9 | 2.0 |
| BN-9-30-MW71 | M64253-6 | SW8466020 | 04/18/07 | 2 | Lead | 0.28 | ug/l | J | 0.26 | 1.0 |
| BN-9-30-MW71 | M64253-6 | SW8466020 | 04/18/07 | 2 | Thallium | | ug/l | U | 0.046 | 1.0 |
| BN-9-30-MW71 | M64253-6 | SW8466020 | 04/18/07 | 2 | Antimony | | ug/l | U | 0.58 | 4.0 |
| BN-9-30-MW71 | M64253-6 | SW8466020 | 04/18/07 | 2 | Selenium | 1.2 | ug/l | J | 0.88 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8467470A | 04/18/07 | 1 | Mercury | 0.022 | ug/l | J | 0.018 | 0.20 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Aluminum | 52.2 | ug/l | J | 19.0 | 200 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Iron | 9740 | ug/l | | 6.3 | 100 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Magnesium | 3860 | ug/l | J | 6.6 | 5000 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Manganese | 128 | ug/l | | 0.24 | 15 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Nickel | 2.2 | ug/l | J | 0.47 | 40 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Potassium | 2450 | ug/l | J | 5.5 | 5000 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Silver | | ug/l | U | 0.31 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Sodium | 25700 | ug/l | | 80.0 | 5000 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Barium | 4.1 | ug/l | J | 0.86 | 200 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Beryllium | 0.32 | ug/l | J | 0.25 | 4.0 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Cadmium | | ug/l | U | 0.22 | 4.0 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Chromium | | ug/l | U | 0.30 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Cobalt | 0.88 | ug/l | J | 0.61 | 50 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Copper | 1.1 | ug/l | J | 0.81 | 25 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Vanadium | 0.75 | ug/l | J | 0.35 | 30 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Zinc | 8.0 | ug/l | J | 0.36 | 20 |
| BN-9-30-MW71 | M64253-6 | SW8466010B | 04/18/07 | 1 | Calcium | 8490 | ug/l | | 6.6 | 5000 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4-Nitroaniline | | ug/l | U | 0.22 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4-Nitrophenol | | ug/l | U | 1.0 | 20 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4-Bromophenyl phenyl ether | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,4-Dimethylphenol | | ug/l | U | 0.83 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.25 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4-Chloroaniline | | ug/l | UJ | 0.79 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroisopropyl)ether | | ug/l | U | 0.22 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Phenol | | ug/l | U | 0.31 | 5.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroethyl)ether | | ug/l | U | 0.78 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | bis(2-Chloroethoxy)methane | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | bis(2-Ethylhexyl)phthalate | | ug/l | U | 2.3 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Di-n-octyl phthalate | | ug/l | U | 0.22 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Hexachlorobenzene | | ug/l | U | 0.27 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Anthracene | | ug/l | U | 0.16 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 1,2,4-Trichlorobenzene | | ug/l | U | 0.28 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,4-Dichlorophenol | | ug/l | U | 0.49 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,4-Dinitrotoluene | | ug/l | U | 0.20 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Pyrene | | ug/l | U | 0.34 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Dimethyl phthalate | | ug/l | UJ | 0.13 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Dibenzofuran | | ug/l | U | 0.79 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Benzo(g,h,i)perylene | | ug/l | U | 0.80 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Indeno(1,2,3-cd)pyrene | | ug/l | U | 0.44 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Benzo(b)fluoranthene | | ug/l | U | 0.34 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Fluoranthene | | ug/l | U | 0.19 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Benzo(k)fluoranthene | | ug/l | U | 0.45 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Acenaphthylene | | ug/l | U | 0.19 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Chrysene | | ug/l | U | 0.32 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Benzo(a)pyrene | | ug/l | U | 0.30 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,4-Dinitrophenol | | ug/l | U | 1.6 | 20 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Dibenzo(a,h)anthracene | | ug/l | U | 0.67 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4,6-Dinitro-o-cresol | | ug/l | U | 0.30 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.85 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Benzo(a)anthracene | | ug/l | U | 0.28 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4-Chloro-3-methyl phenol | | ug/l | U | 0.43 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,6-Dinitrotoluene | | ug/l | U | 0.44 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | N-Nitroso-di-n-propylamine | | ug/l | U | 0.89 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Hexachloroethane | | ug/l | U | 0.26 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 4-Chlorophenyl phenyl ether | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Hexachlorocyclopentadiene | | ug/l | U | 0.28 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Isophorone | | ug/l | U | 0.25 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Acenaphthene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Diethyl phthalate | | ug/l | U | 0.20 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Di-n-butyl phthalate | | ug/l | U | 0.17 | 5.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Phenanthrene | | ug/l | U | 0.92 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Butyl benzyl phthalate | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | N-Nitrosodiphenylamine | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Fluorene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Carbazole | | ug/l | U | 0.86 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Hexachlorobutadiene | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Pentachlorophenol | | ug/l | U | 1.7 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,4,6-Trichlorophenol | | ug/l | U | 0.37 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2-Nitroaniline | | ug/l | U | 0.23 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2-Nitrophenol | | ug/l | U | 0.53 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Naphthalene | | ug/l | U | 0.35 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2-Methylnaphthalene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2-Chloronaphthalene | | ug/l | U | 0.20 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 3,3'-Dichlorobenzidine | | ug/l | UJ | 0.71 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2-Methylphenol | | ug/l | U | 0.51 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.21 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2-Chlorophenol | | ug/l | U | 0.29 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 2,4,5-Trichlorophenol | | ug/l | U | 1.8 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | Nitrobenzene | | ug/l | U | 0.40 | 5.0 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 3-Nitroaniline | | ug/l | UJ | 0.24 | 10 |
| BN-9-30-MW71 | M64253-6 | SW8468270C | 04/18/07 | 1 | 3&4-Methylphenol | | ug/l | U | 0.67 | 10 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | | ug/l | UJ | 0.36 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | | ug/l | U | 0.36 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | 4.7 | ug/l | | 0.31 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | Trichloroethene | | ug/l | U | 0.30 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW72 | M64253-7 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Ethylbenzene | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Styrene | | ug/l | U | 0.23 | 5.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | cis-1,3-Dichloropropene | | ug/l | UJ | 0.30 | 0.50 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | trans-1,3-Dichloropropene | | ug/l | UJ | 0.31 | 0.50 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,4-Dichlorobenzene | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethane | | ug/l | U | 0.20 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 4-Methyl-2-pentanone (MIBK) | | ug/l | U | 0.50 | 5.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Toluene | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Chlorobenzene | | ug/l | U | 0.32 | 1.0 |

# NAS BRUNSWICK-SITE 9-APRIL 2007
# ROUND 30
# DATA SUMMARY TABLE
# AQUEOUS
# SDG: M64253

| Sample Name | Lab ID | Analytical Method | Sample Date | Dilution Factor | Analyte | Result | Unit | Qualifier | MDL | RL |
|---|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Dibromochloromethane | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Tetrachloroethene | | ug/l | U | 0.34 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Xylene (total) | | ug/l | U | 0.37 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | cis-1,2-Dichloroethene | 1.7 | ug/l | J | 0.36 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | trans-1,2-Dichloroethene | | ug/l | UJ | 0.40 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Methyl Tert Butyl Ether | | ug/l | U | 0.14 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloroethene (total) | 1.7 | ug/l | | 0.36 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,3-Dichlorobenzene | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Carbon tetrachloride | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 2-Hexanone | | ug/l | U | 0.76 | 5.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Acetone | | ug/l | U | 2.8 | 5.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Chloroform | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Benzene | | ug/l | U | 0.23 | 0.50 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,1,1-Trichloroethane | | ug/l | U | 0.21 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Bromomethane | | ug/l | UJ | 0.61 | 2.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Chloromethane | | ug/l | UJ | 0.20 | 2.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Chloroethane | | ug/l | UJ | 0.65 | 2.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Vinyl chloride | | ug/l | U | 0.24 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Methylene chloride | | ug/l | UJ | 0.27 | 2.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Carbon disulfide | | ug/l | UJ | 0.41 | 5.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Bromoform | | ug/l | U | 0.47 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Bromodichloromethane | | ug/l | U | 0.26 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethane | | ug/l | U | 0.18 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,1-Dichloroethene | | ug/l | U | 0.35 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Trichlorofluoromethane | | ug/l | U | 0.31 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,2-Dichloropropane | | ug/l | U | 0.28 | 2.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 2-Butanone (MEK) | | ug/l | U | 1.8 | 5.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,1,2-Trichloroethane | | ug/l | U | 0.32 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | Trichloroethene | 1.3 | ug/l | | 0.30 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,1,2,2-Tetrachloroethane | | ug/l | U | 0.22 | 1.0 |
| BN-9-30-MW74 | M64253-8 | SW8468260B | 04/18/07 | 1 | 1,2-Dichlorobenzene | | ug/l | U | 0.29 | 1.0 |
| BN-9-30-MW74 | M64253-9 | ME41259/95 | 04/18/07 | 1 | ME-DRO (C10-C28) | 0.0634 | mg/l | J | 0.056 | 0.089 |

**Field Duplicate Worksheet**
**SDG: M64253**
**Naval Air Station, Brunswick, ME**
**Site 9**
**ROUND 30**

| Field Sample | Analyte | Analytical Method | Result | Units | Field Duplicate | Result | Units | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| BN-9-30-MW227 | cis-1,2-Dichloroethene | SW-846 8260B | 2.7 | µg/L | BN-9-30-MW-XD3 | 2.2 | µg/L | 20.4 | |
| BN-9-30-MW227 | 1,2-Dichloroethene | SW-846 8260B | 2.7 | µg/L | BN-9-30-MW-XD3 | 2.2 | µg/L | 20.4 | |
| BN-9-30-MW227 | Methyl Tert Butyl Ether | SW-846 8260B | 0.43 | µg/L | BN-9-30-MW-XD3 | ND | µg/L | **NC** | **J/UJ** |
| BN-9-30-MW227 | Trichloroethene | SW-846 8260B | 3.1 | µg/L | BN-9-30-MW-XD3 | 2.3 | µg/L | 29.6 | |
| BN-9-30-M70 | Barium | SW-846 6010B | 14.6 | µg/L | BN-9-30-MW-XD1 | 14.7 | µg/L | 0.7 | |
| BN-9-30-M70 | Beryllium | SW-846 6010B | 0.28 | µg/L | BN-9-30-MW-XD1 | ND | µg/L | **NC** | **J/UJ** |
| BN-9-30-M70 | Calcium | SW-846 6010B | 20000 | µg/L | BN-9-30-MW-XD1 | 19600 | µg/L | 2.0 | |
| BN-9-30-M70 | Chromium | SW-846 6010B | 0.64 | µg/L | BN-9-30-MW-XD1 | 1 | µg/L | **43.9** | **J** |
| BN-9-30-M70 | Cobalt | SW-846 6010B | 2.4 | µg/L | BN-9-30-MW-XD1 | 2.3 | µg/L | 4.3 | |
| BN-9-30-M70 | Copper | SW-846 6010B | 1 | µg/L | BN-9-30-MW-XD1 | 1.3 | µg/L | 26.1 | |
| BN-9-30-M70 | Iron | SW-846 6010B | 18.8 | µg/L | BN-9-30-MW-XD1 | 12.9 | µg/L | **37.2** | **J** |
| BN-9-30-M70 | Magnesium | SW-846 6010B | 1870 | µg/L | BN-9-30-MW-XD1 | 1850 | µg/L | 1.1 | |
| BN-9-30-M70 | Manganese | SW-846 6010B | 48.8 | µg/L | BN-9-30-MW-XD1 | 75 | µg/L | **42.3** | **J** |
| BN-9-30-M70 | Mercury | SW-846 7470A | ND | µg/L | BN-9-30-MW-XD1 | 0.026 | µg/L | **NC** | **UJ/J** |
| BN-9-30-M70 | Nickel | SW-846 6010B | 1.3 | µg/L | BN-9-30-MW-XD1 | 1.3 | µg/L | 0.0 | |
| BN-9-30-M70 | Potassium | SW-846 6010B | 618 | µg/L | BN-9-30-MW-XD1 | 622 | µg/L | 0.6 | |
| BN-9-30-M70 | Sodium | SW-846 6010B | 12800 | µg/L | BN-9-30-MW-XD1 | 13000 | µg/L | 1.6 | |
| BN-9-30-M70 | Vanadium | SW-846 6010B | 0.64 | µg/L | BN-9-30-MW-XD1 | ND | µg/L | **NC** | **J/UJ** |
| BN-9-30-M70 | Zinc | SW-846 6010B | 5.3 | µg/L | BN-9-30-MW-XD1 | 5.8 | µg/L | 9.0 | |

# APPENDIX D

Temporal Trend Graphs

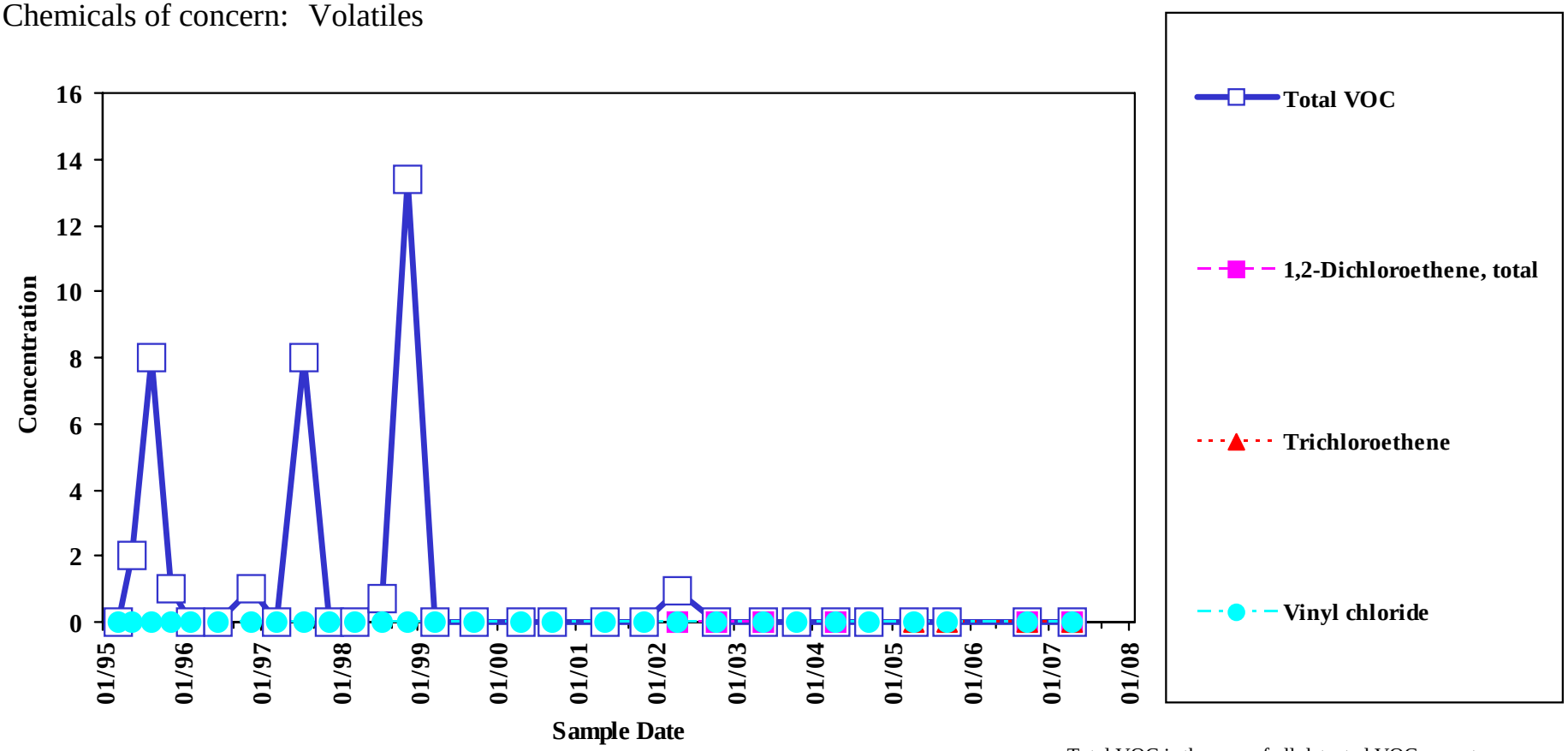
Sample Location:

# LT-901

Site 9

Leachate

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

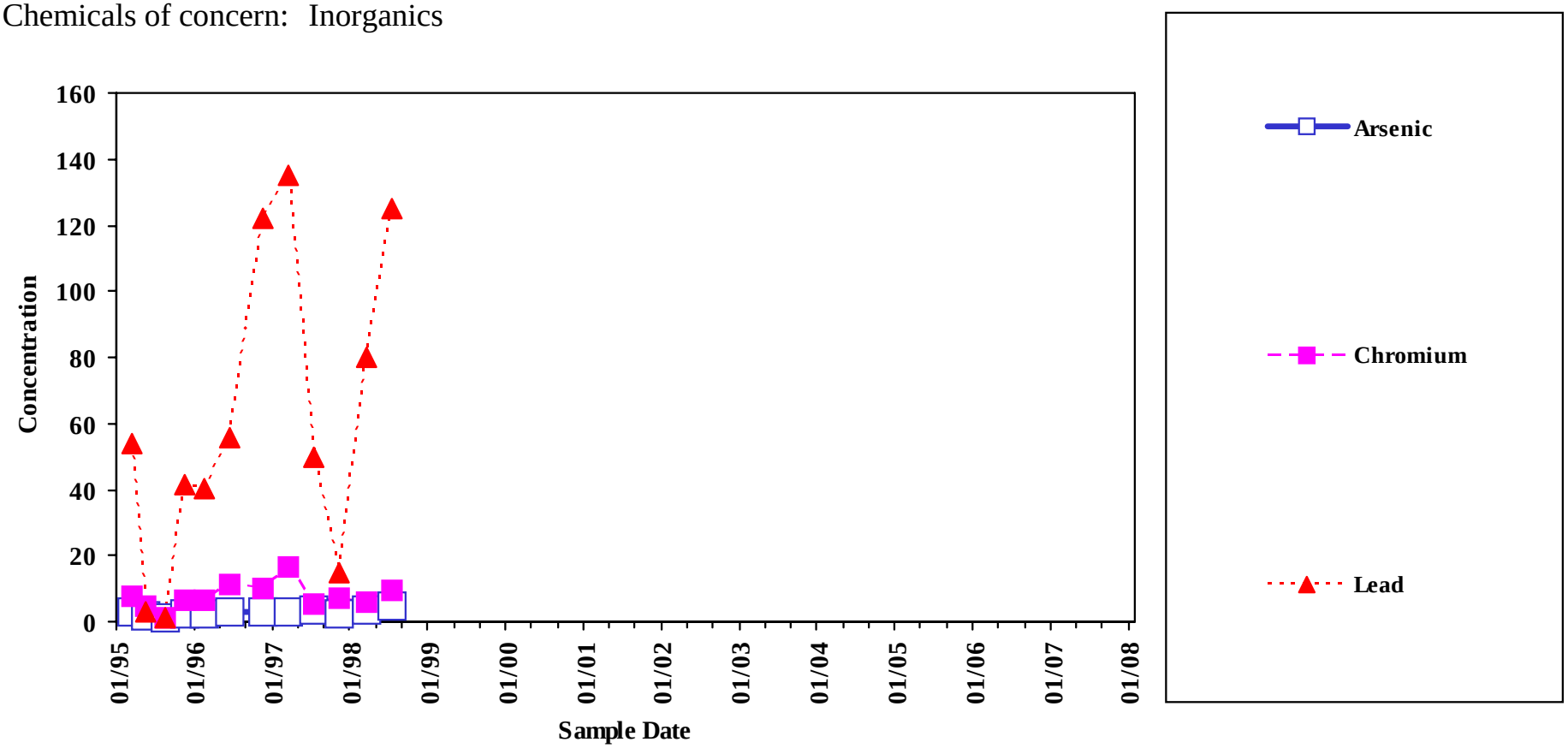
Sample Location:

# LT-901

Site 9

Sediment

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: mg/Kg

| Screening Value | Arsenic | Chromium | Lead |
|---|---|---|---|
| | 9.8 | 43.4 | 35.8 |

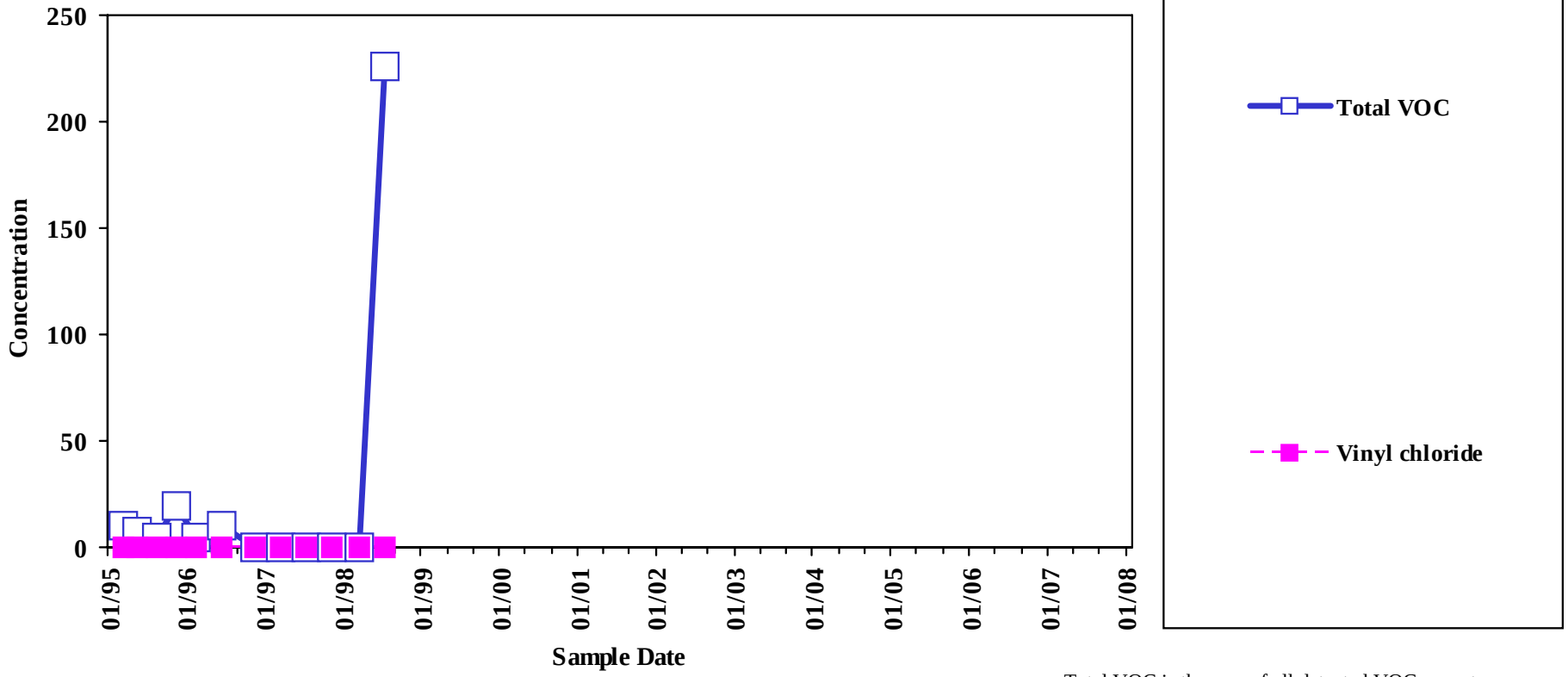
Sample Location:

# LT-901

Site 9

Sediment

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/Kg

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

Sample Location:

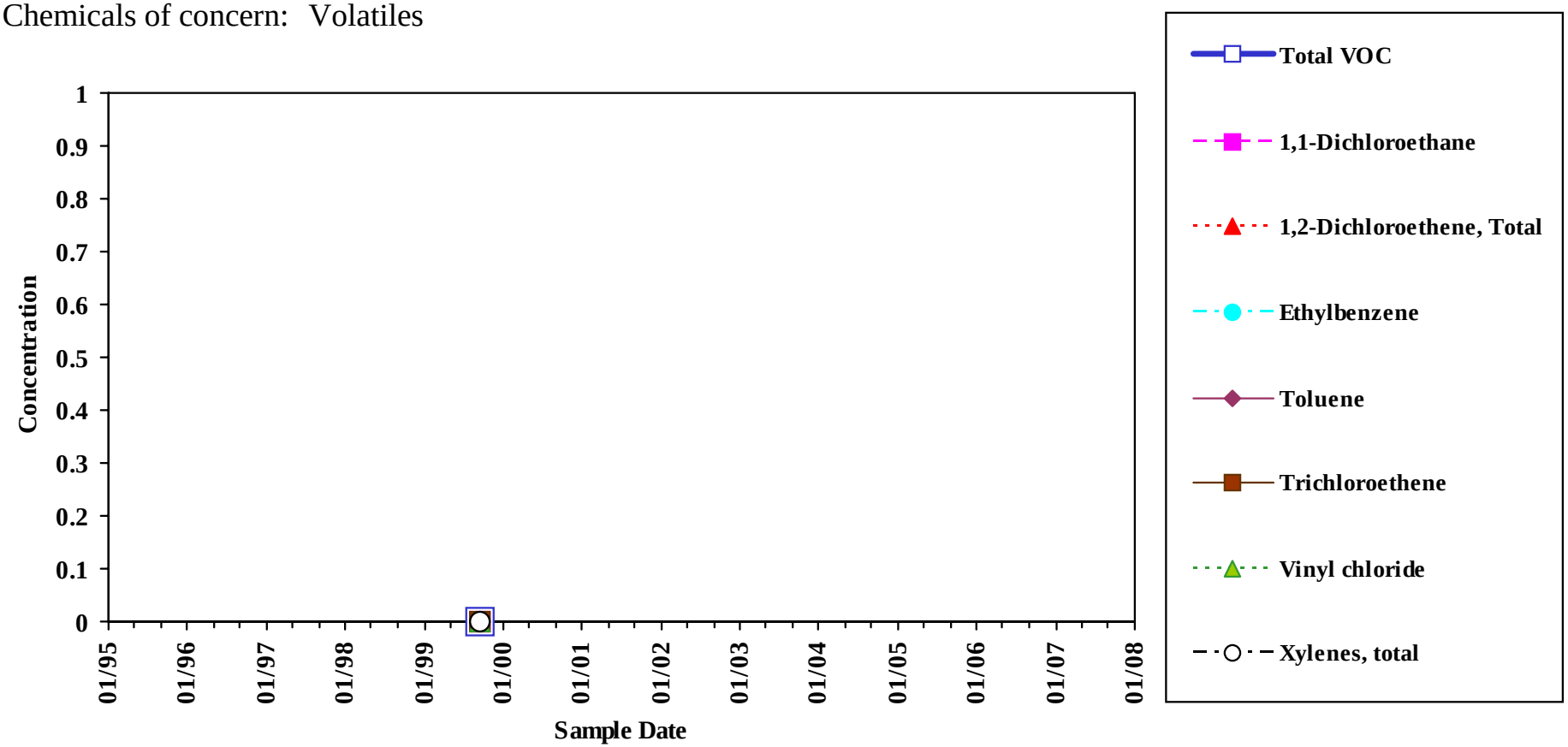
# MW-NASB-008

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

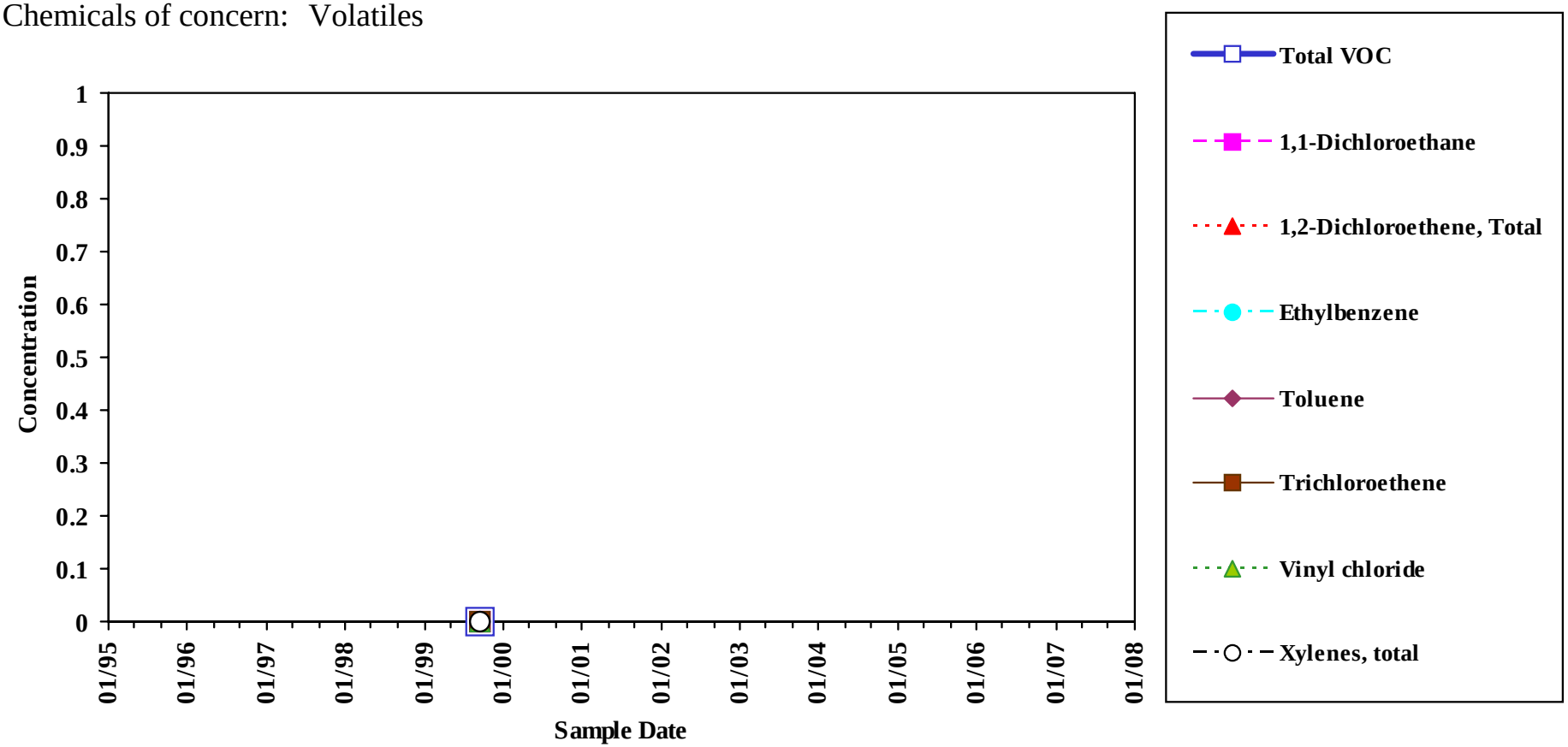
# MW-NASB-009

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

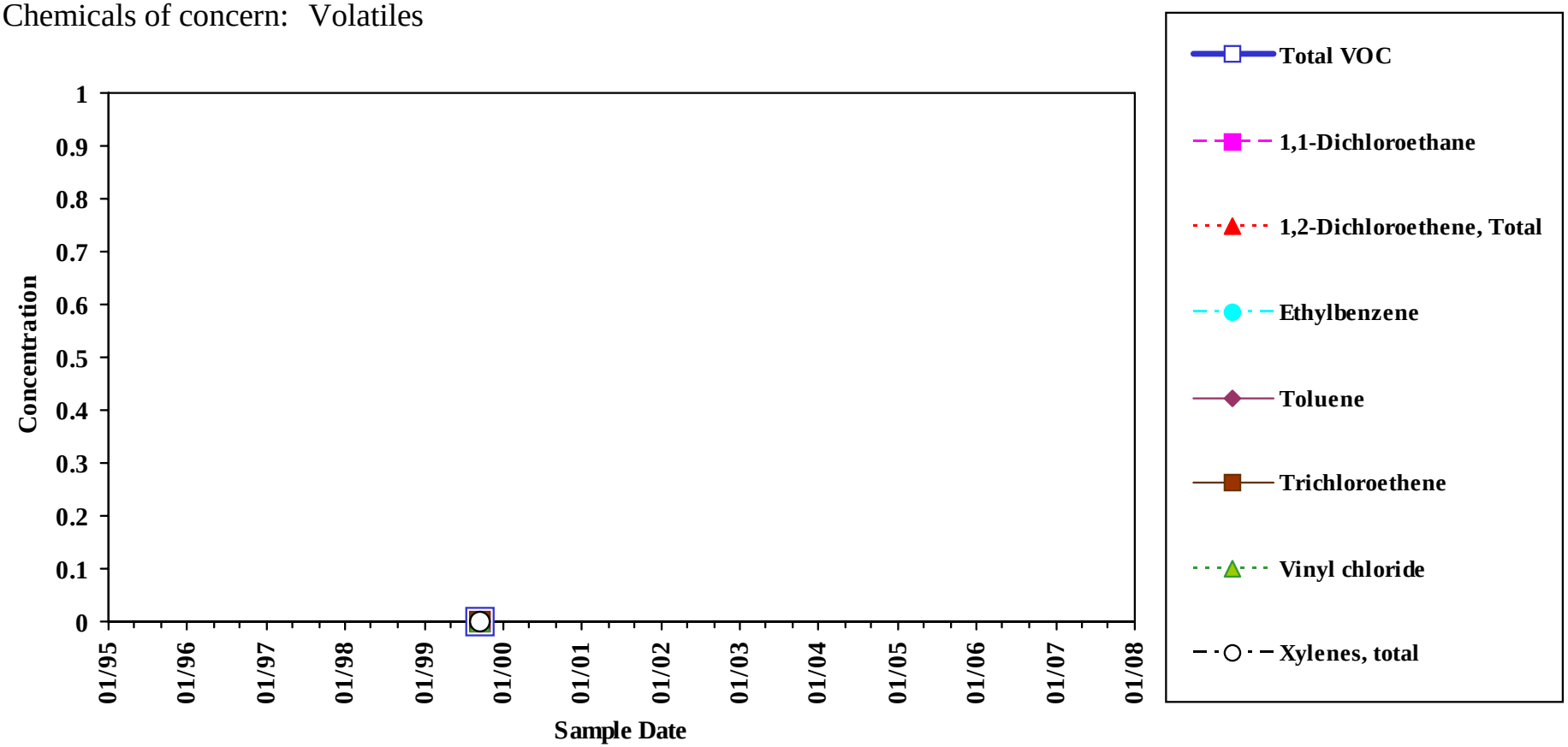
# MW-NASB-010

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

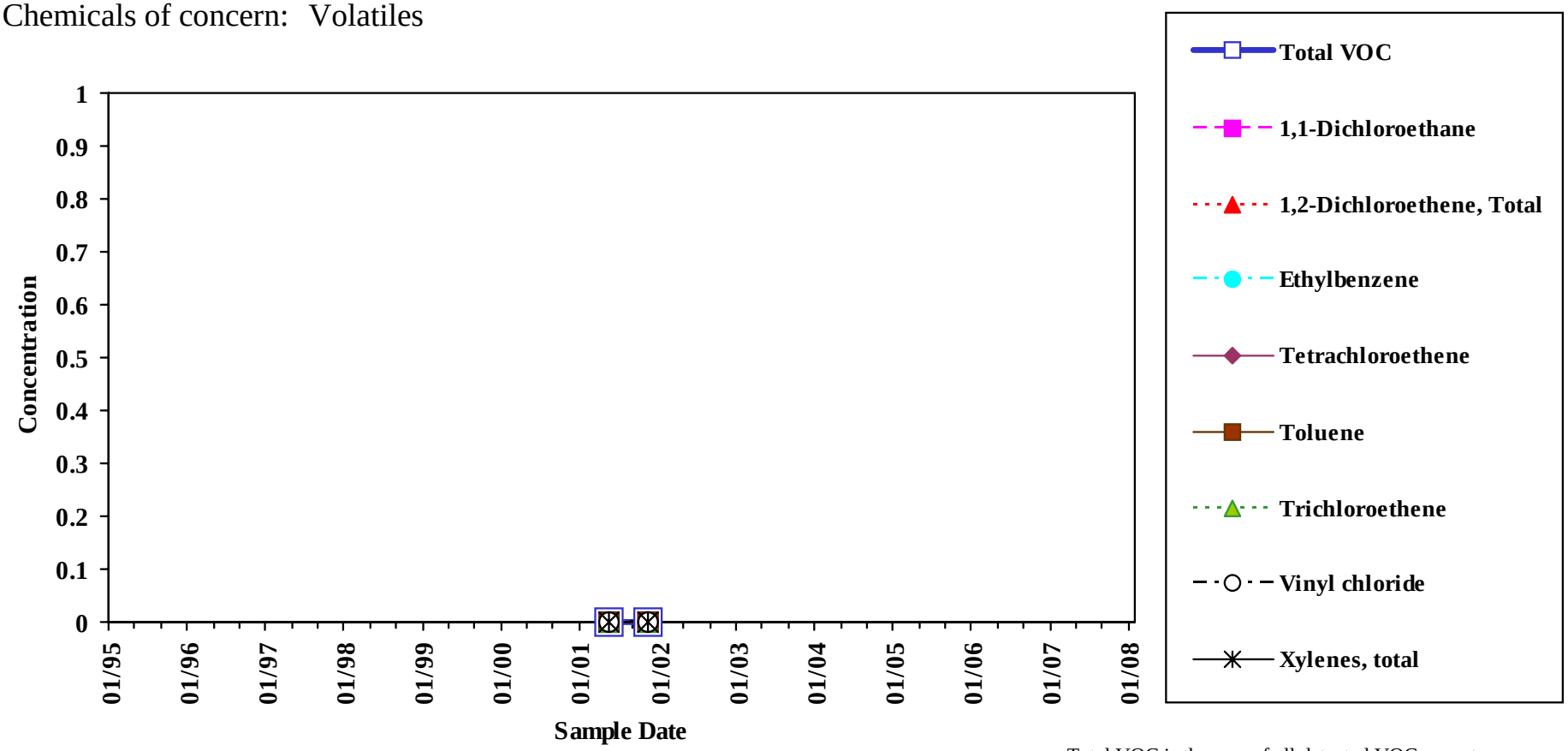
# MW-NASB-021

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

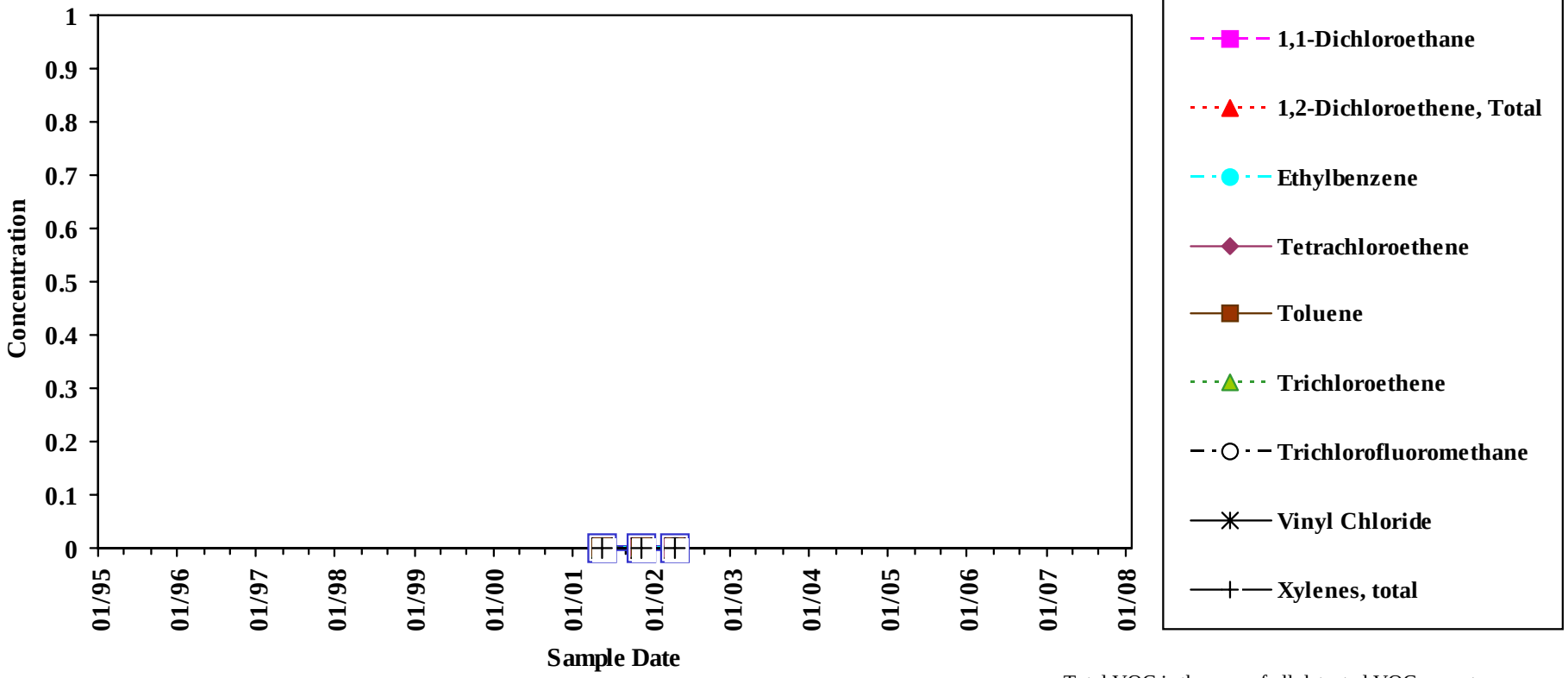
# MW-NASB-021

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

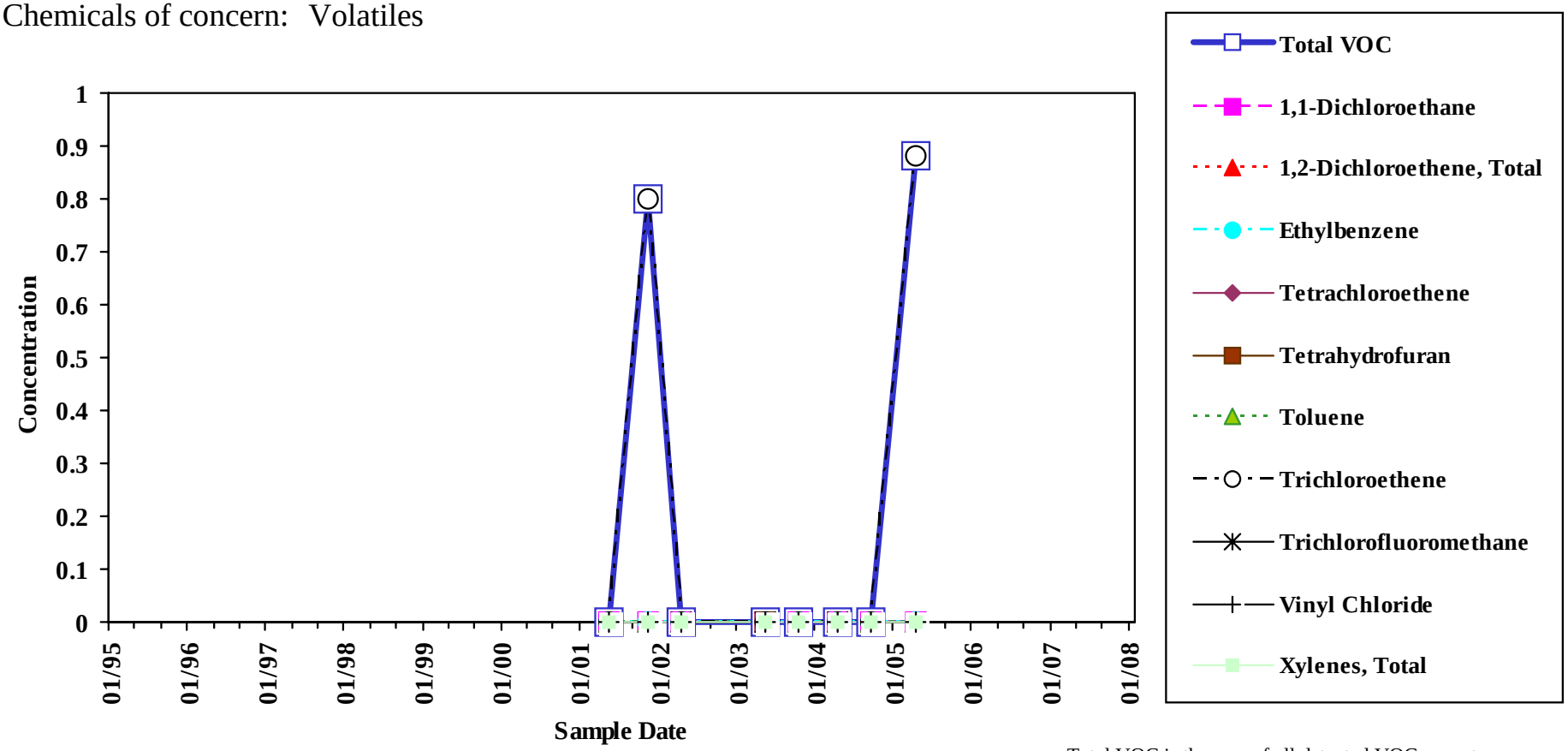
# MW-NASB-021

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

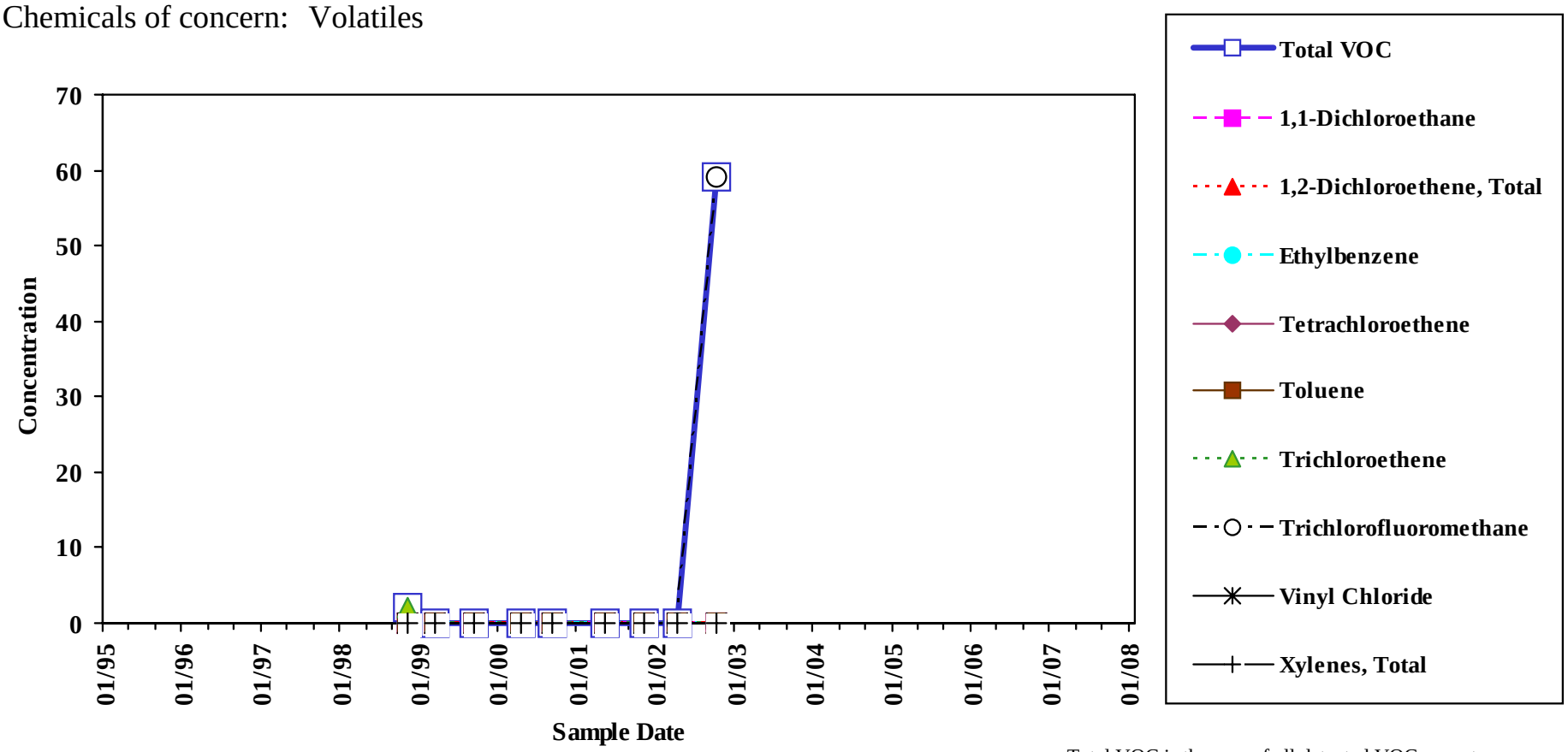
# MW-NASB-022

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

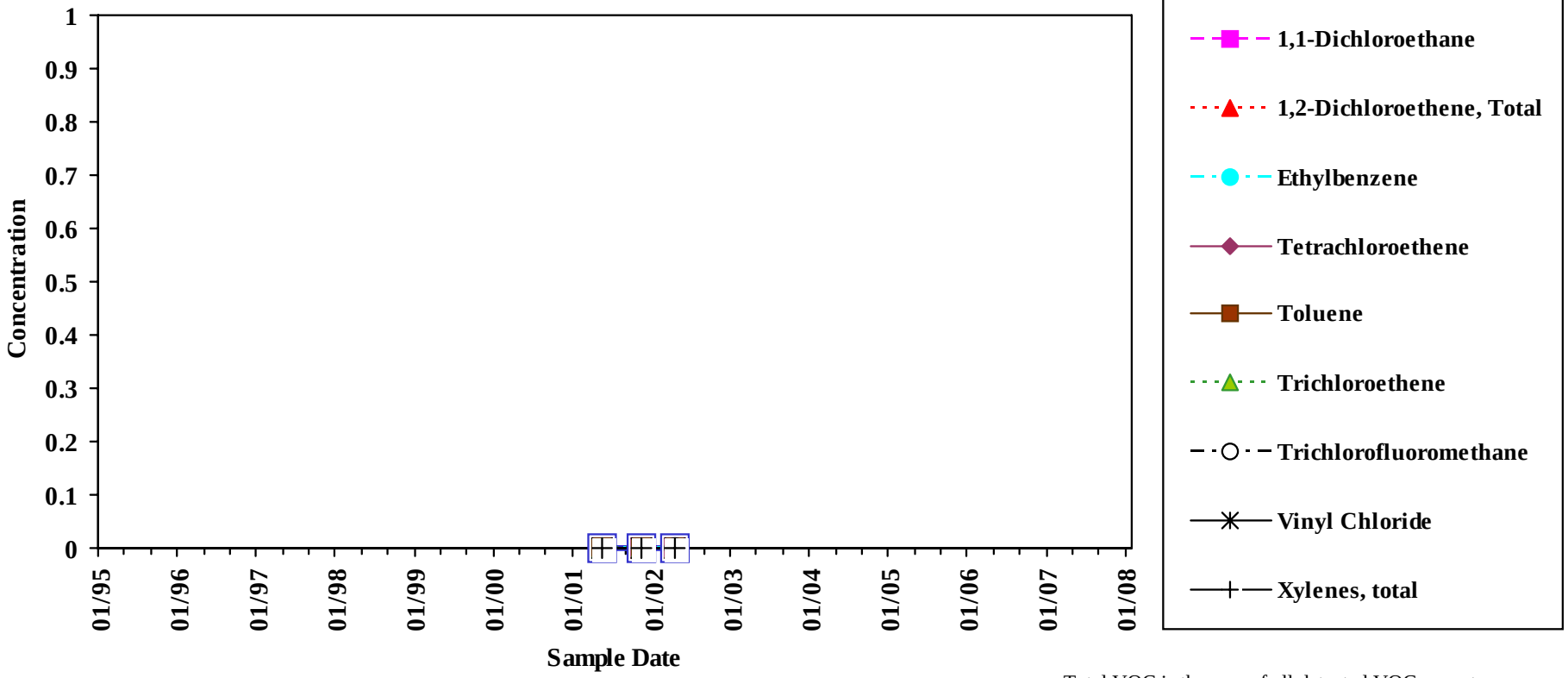
# MW-NASB-022

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

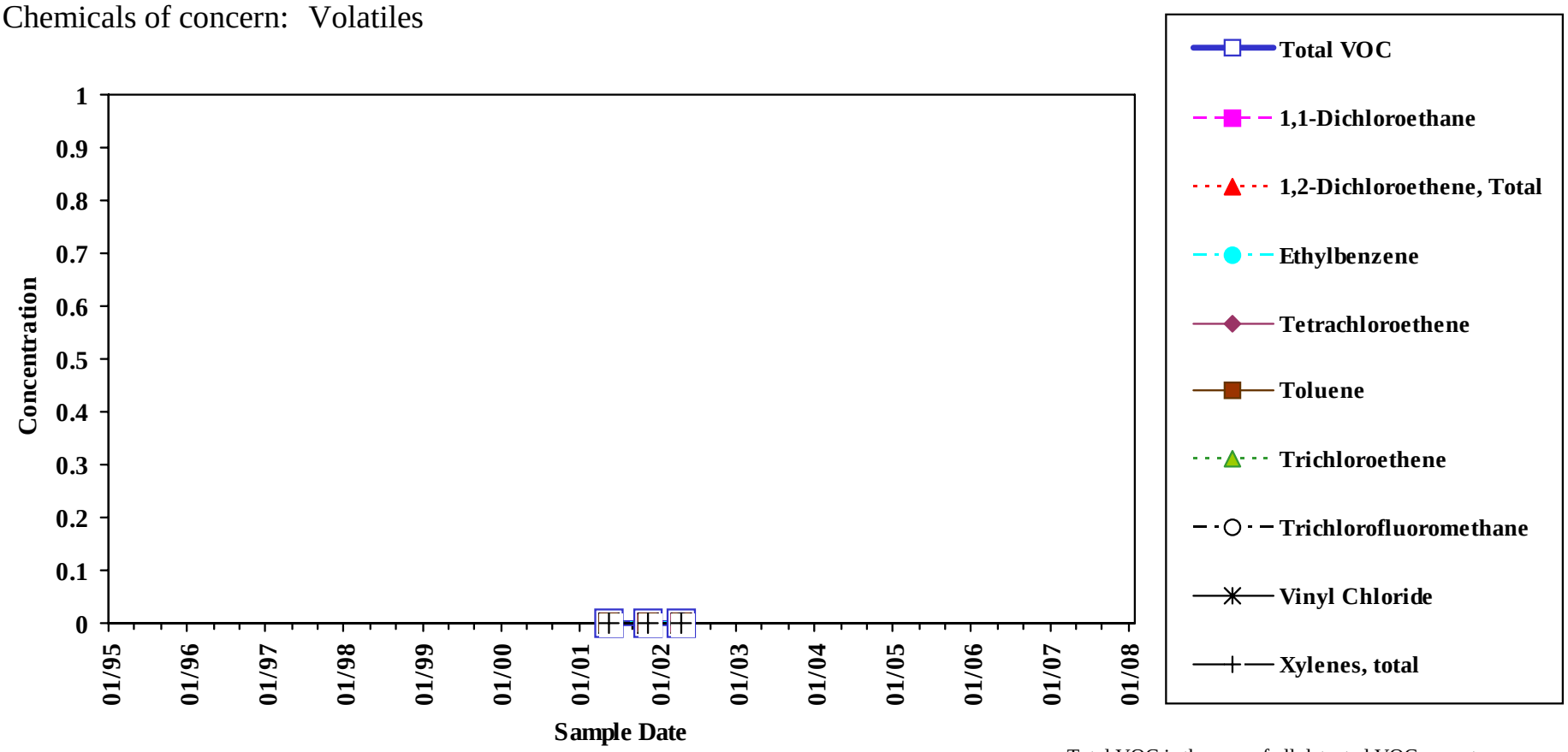
# MW-NASB-022

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

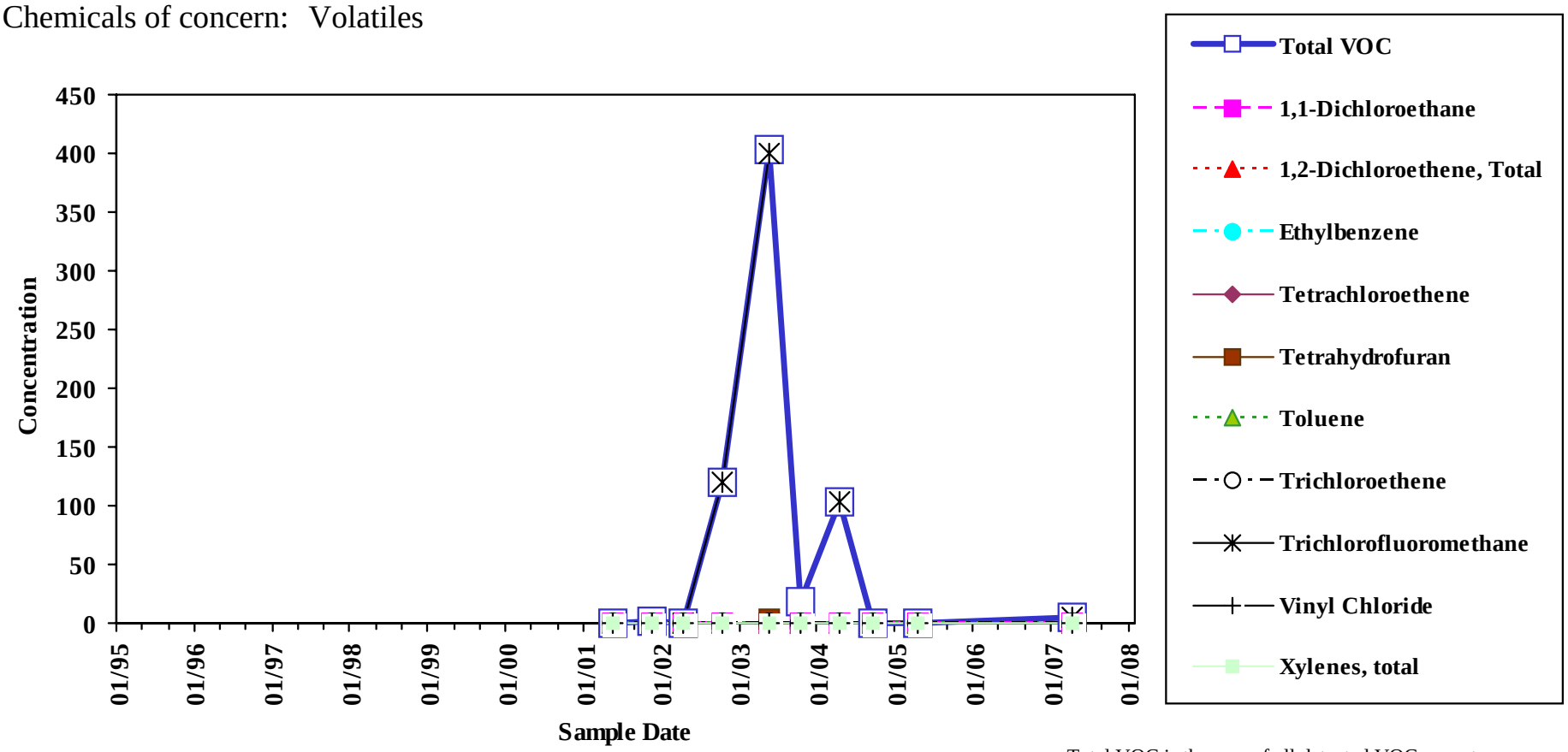
# MW-NASB-022

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |

| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
|---|---|---|---|---|---|---|---|---|
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |

| Vinyl Chloride | Xylenes, Total |
|---|---|
| 2 | 10,000 |

Sample Location:

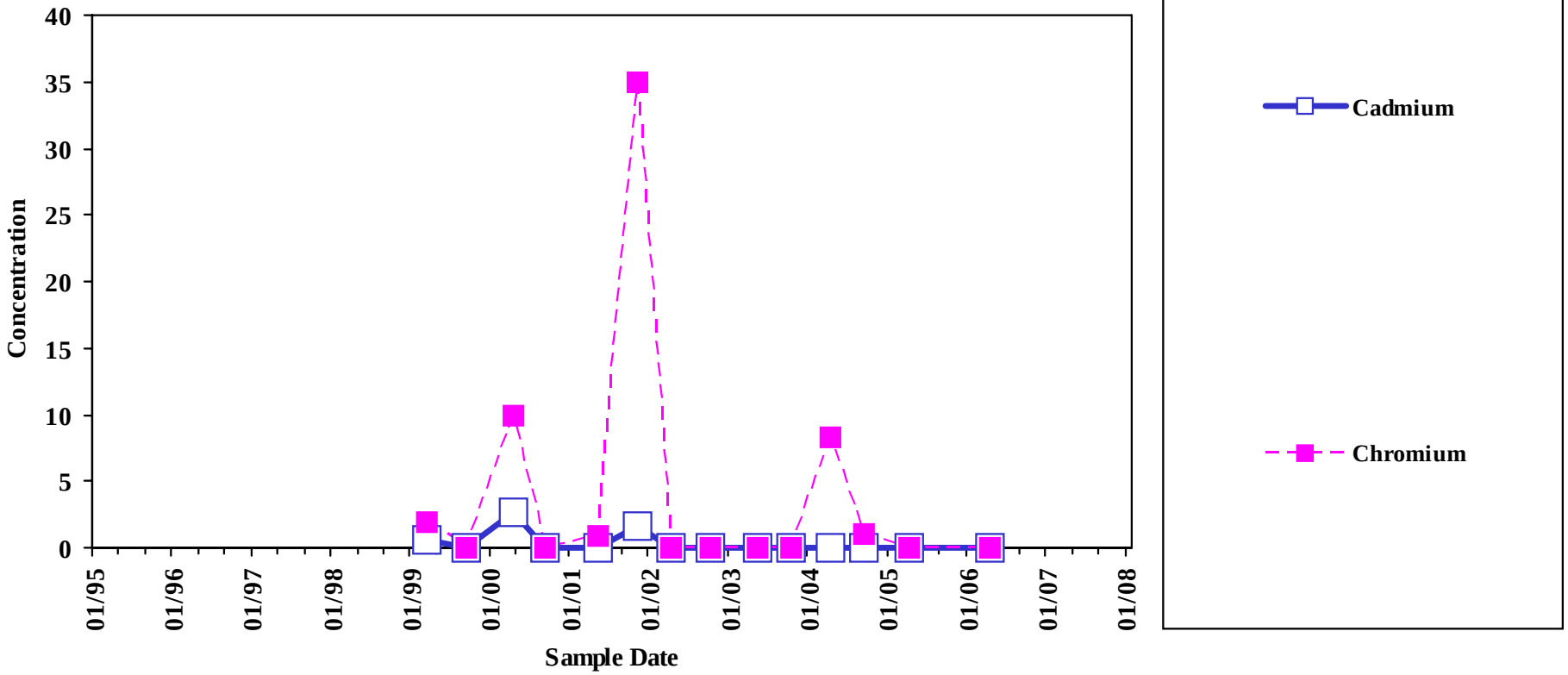
# MW-NASB-069

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

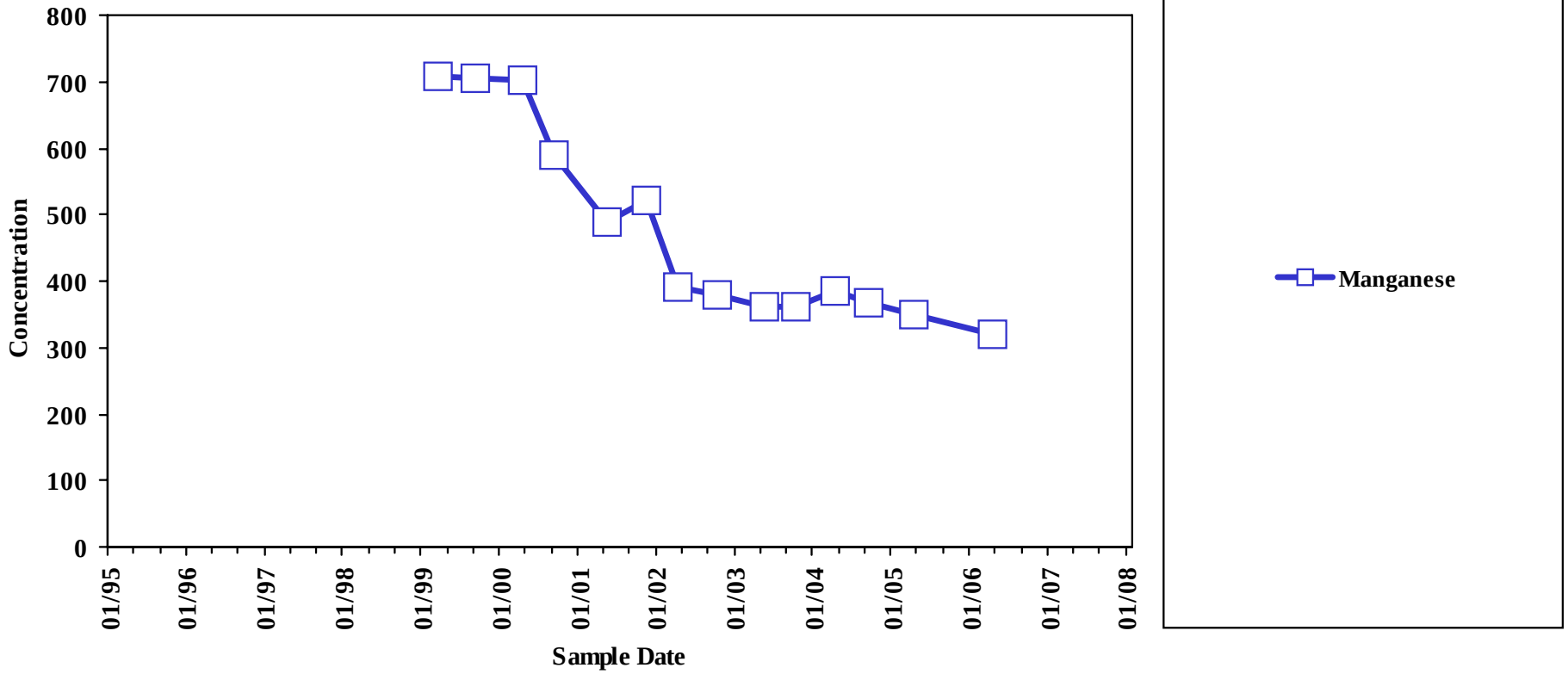
# MW-NASB-069

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

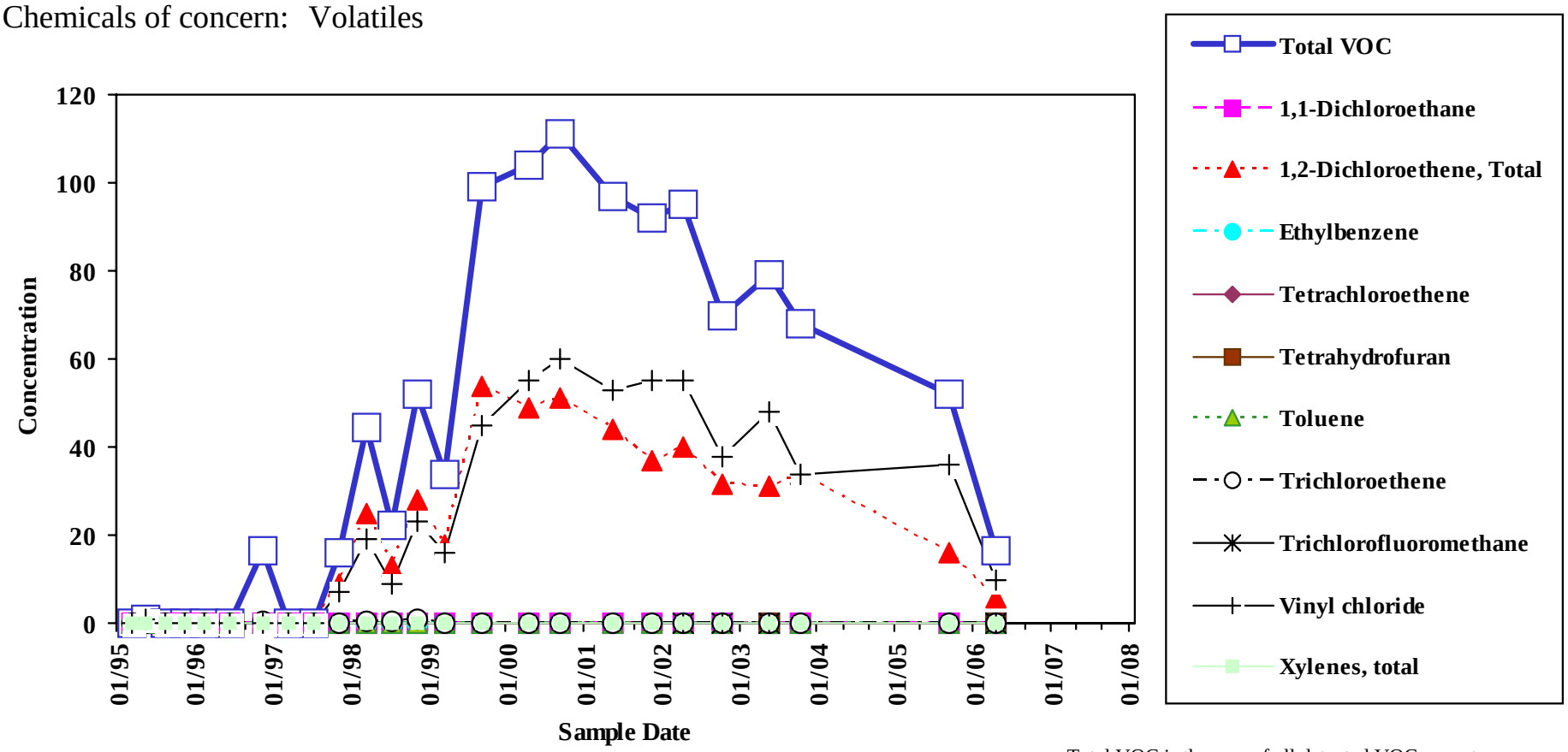
# MW-NASB-069

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | MCL | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

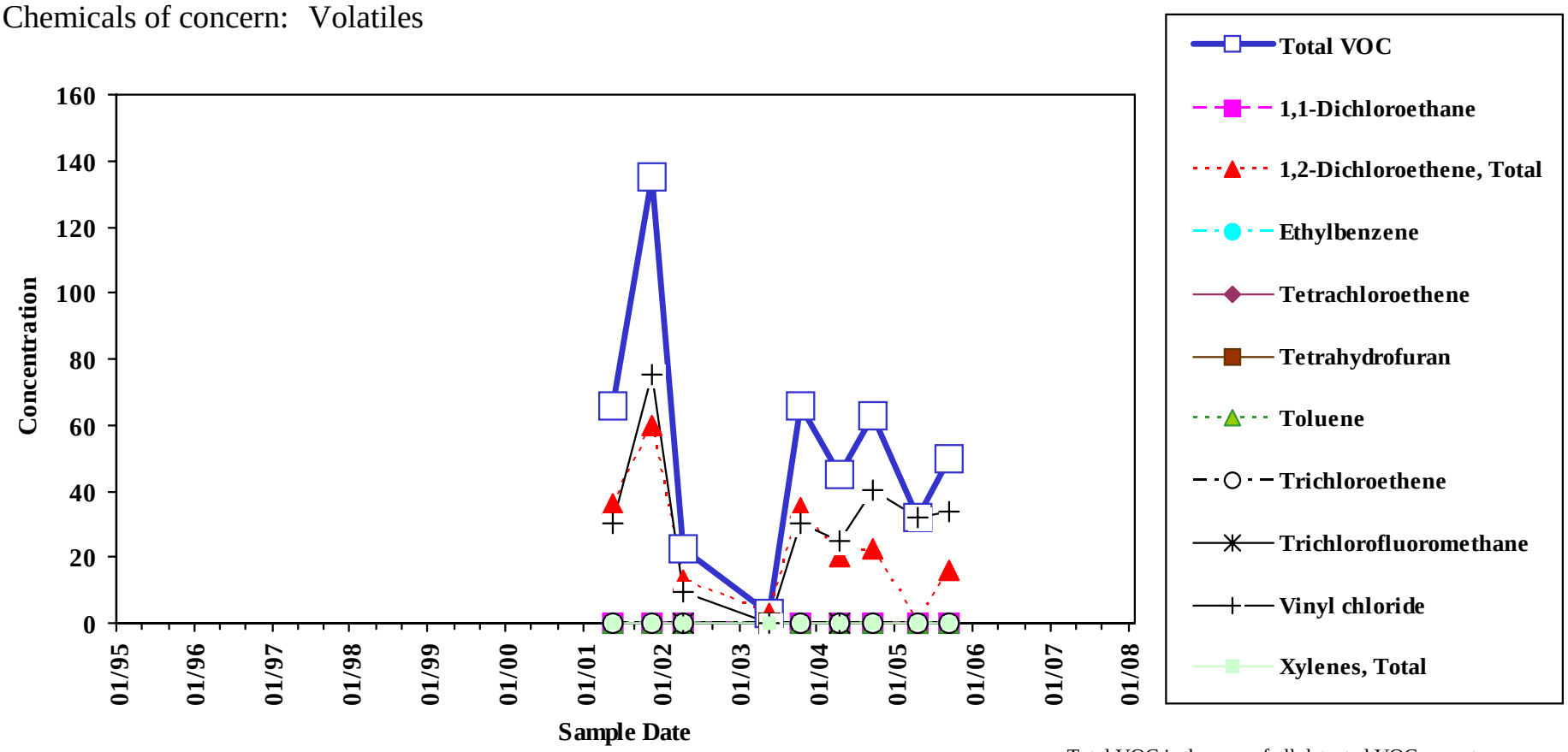
# MW-NASB-069

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

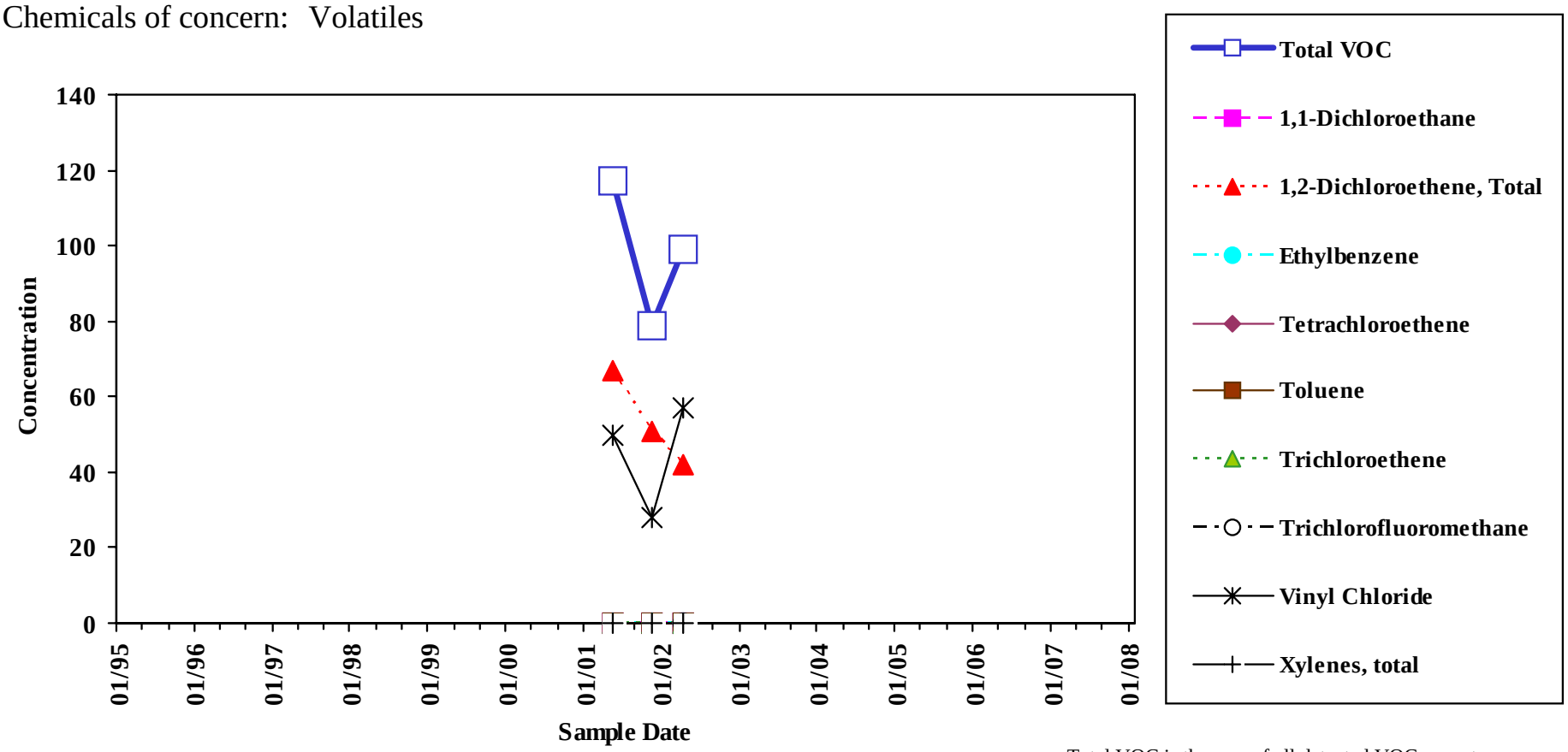
# MW-NASB-069

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

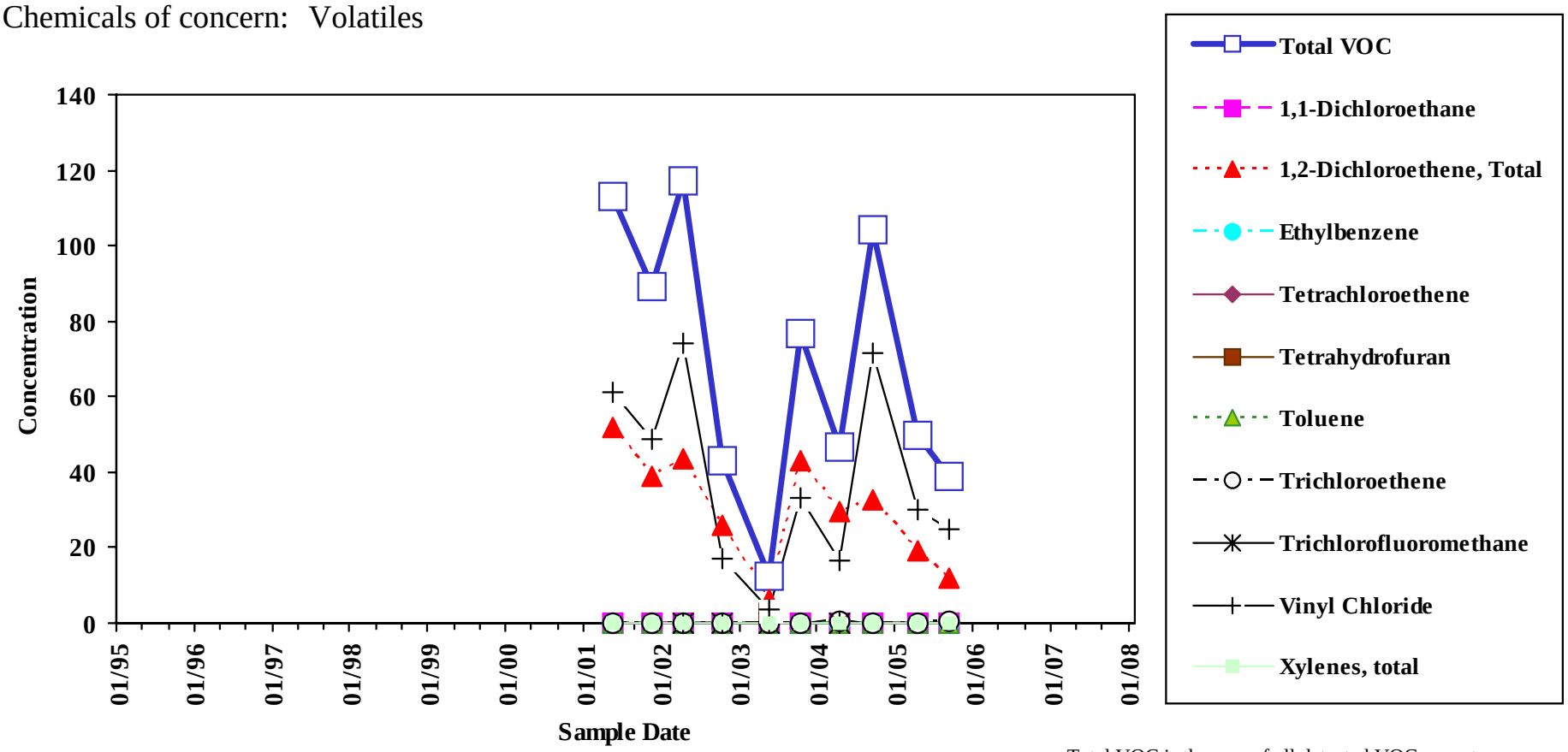
# MW-NASB-069

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

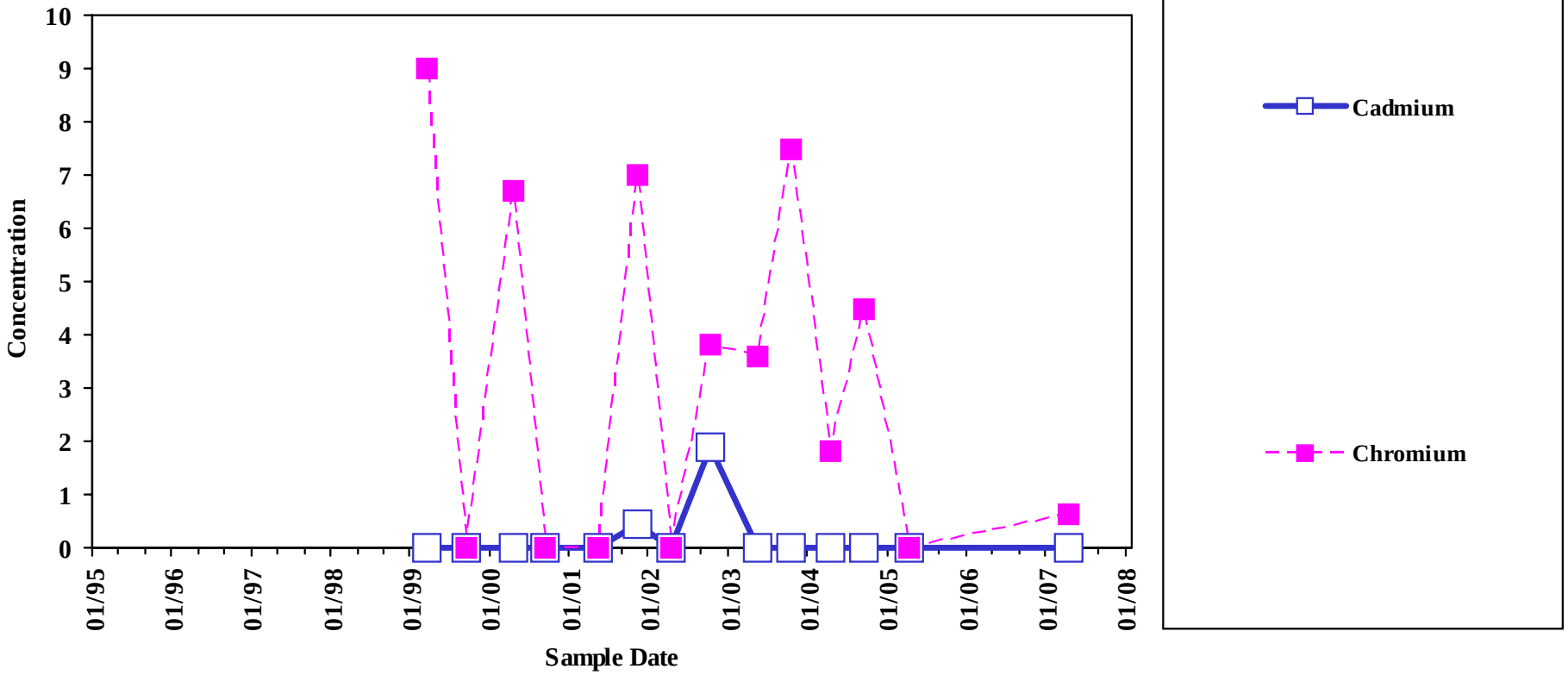
# MW-NASB-070

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

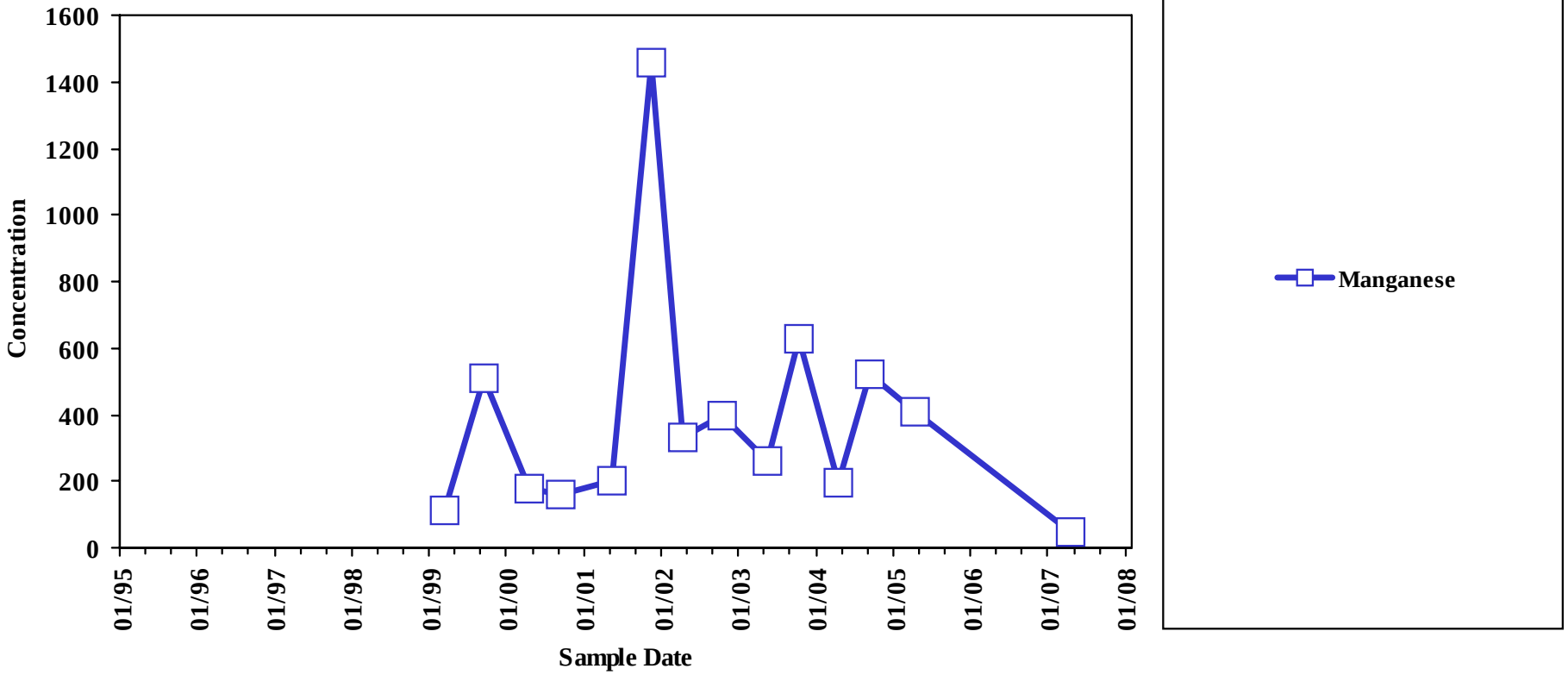
# MW-NASB-070

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

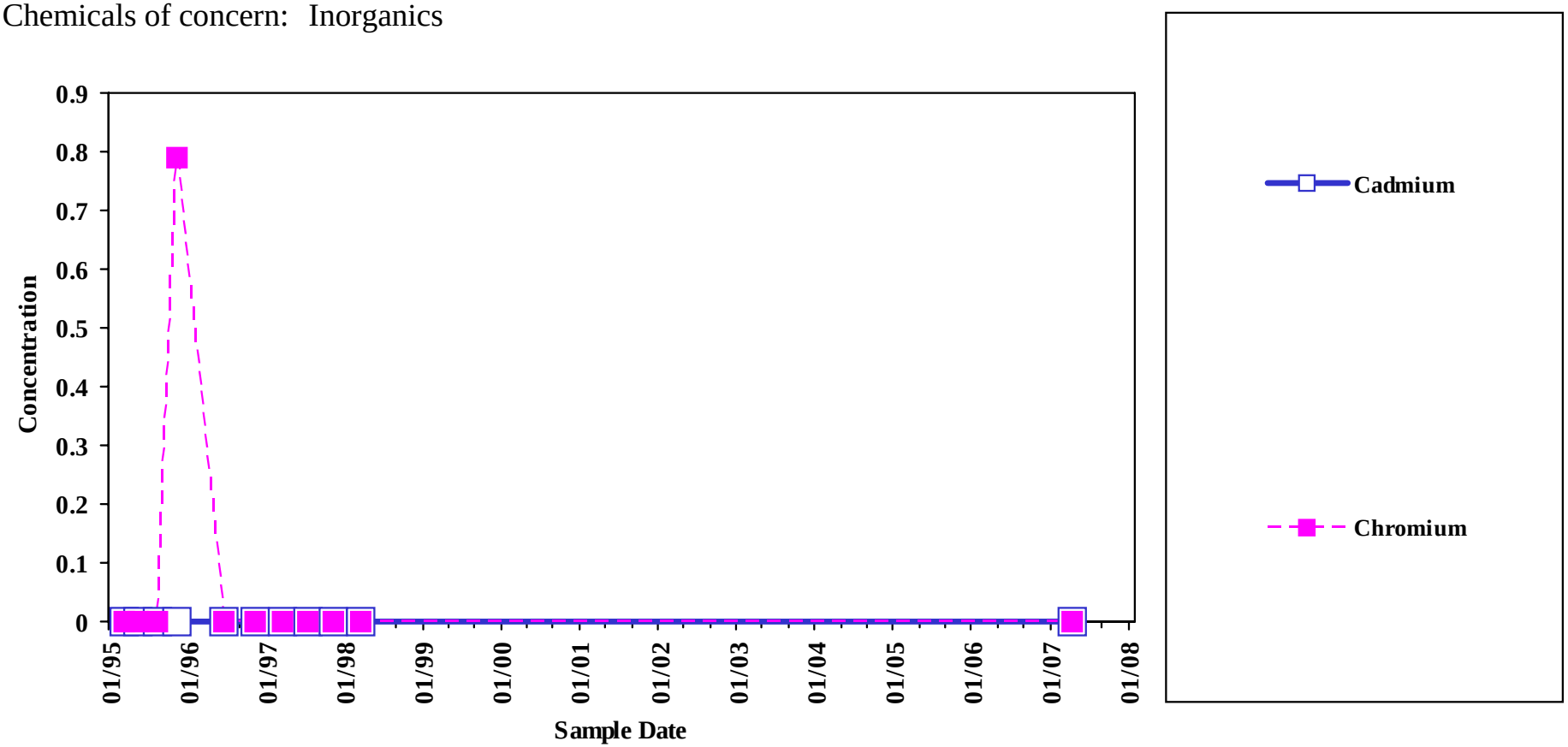
# MW-NASB-071

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

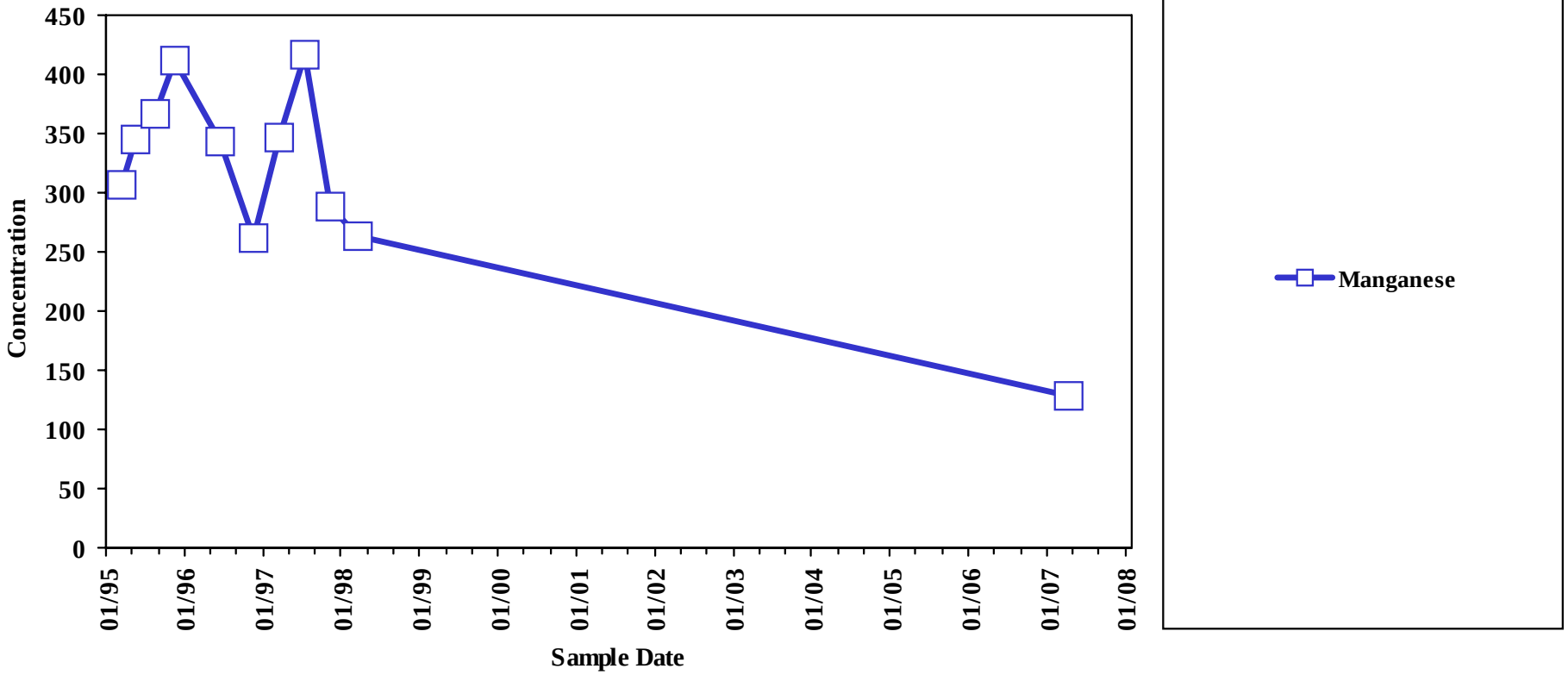
# MW-NASB-071

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

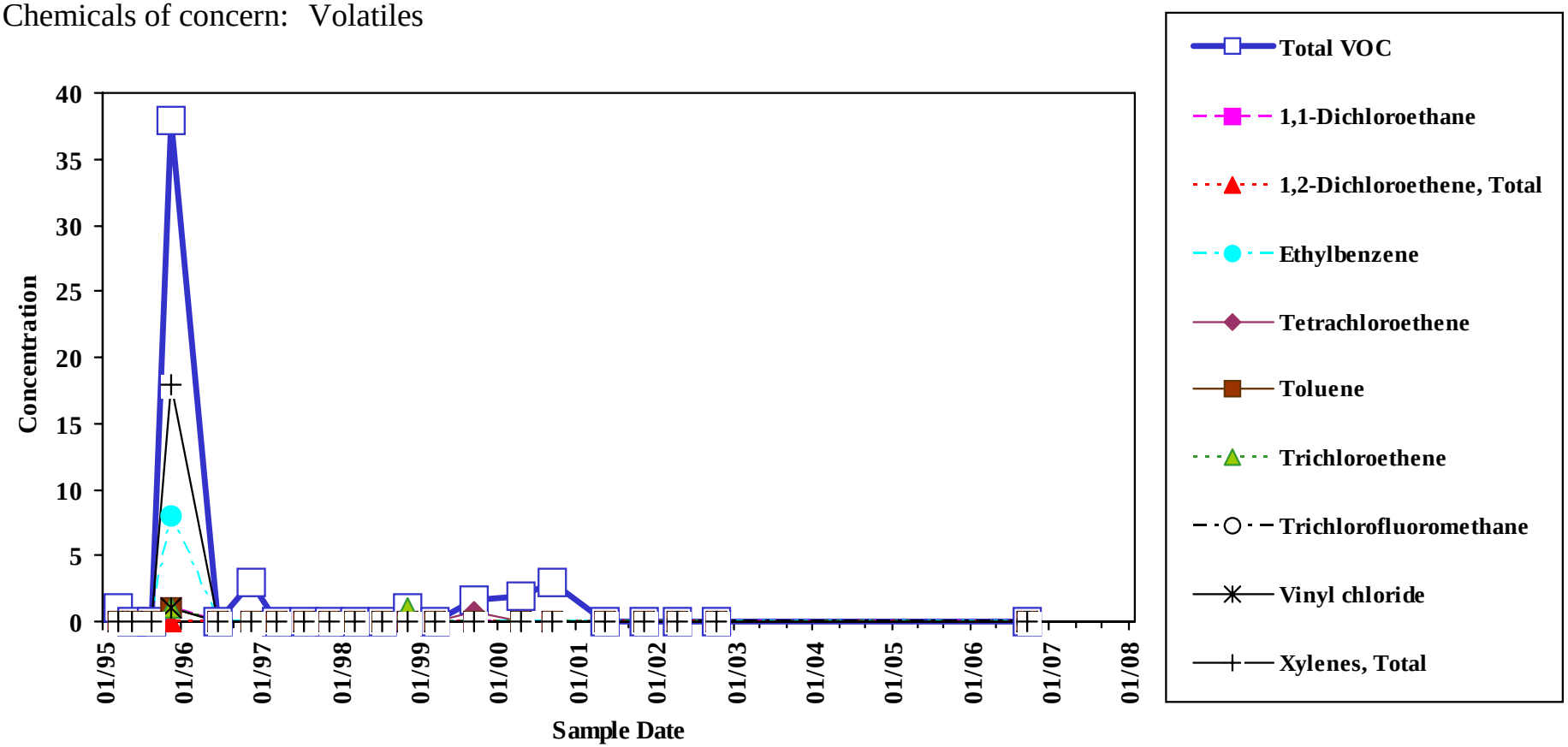
# MW-NASB-071

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

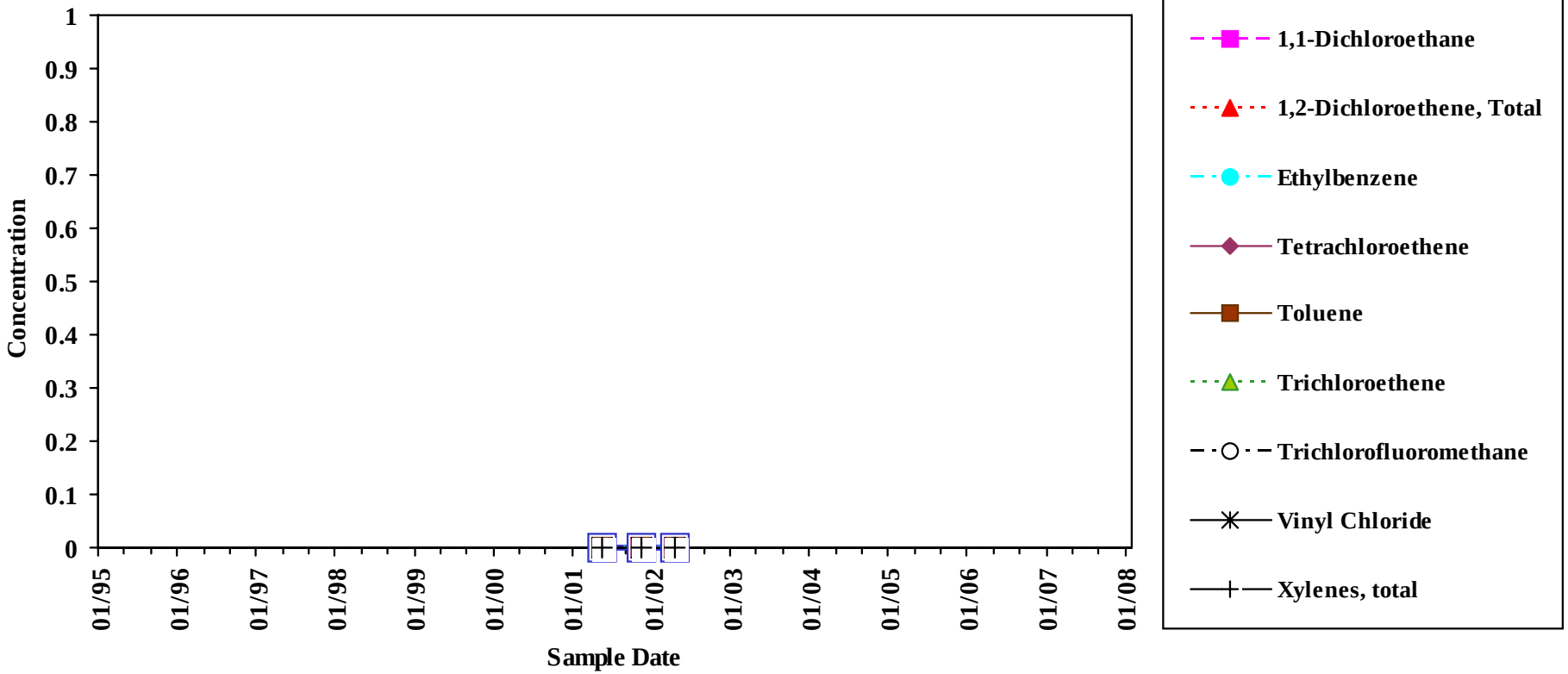
# MW-NASB-071

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

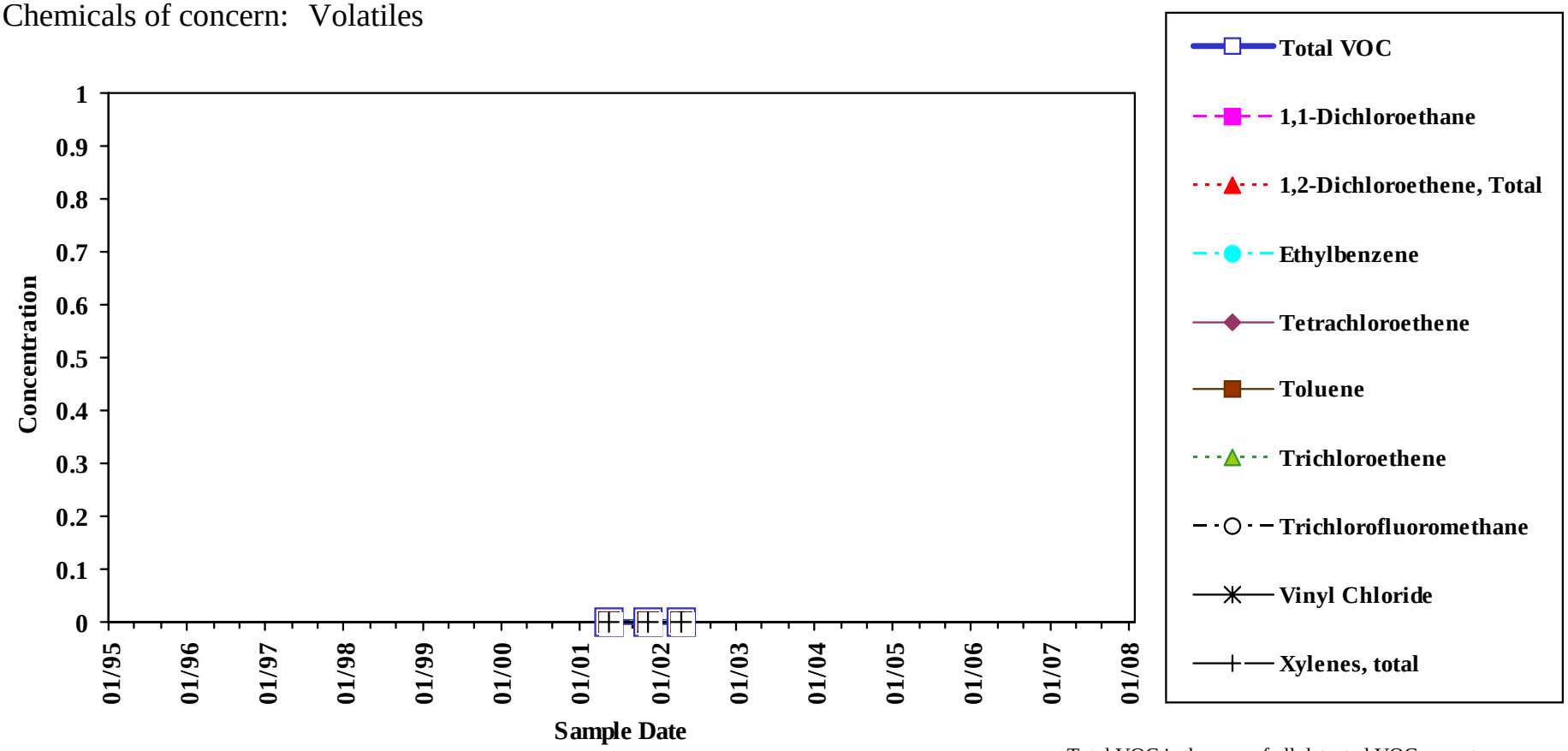
# MW-NASB-071

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

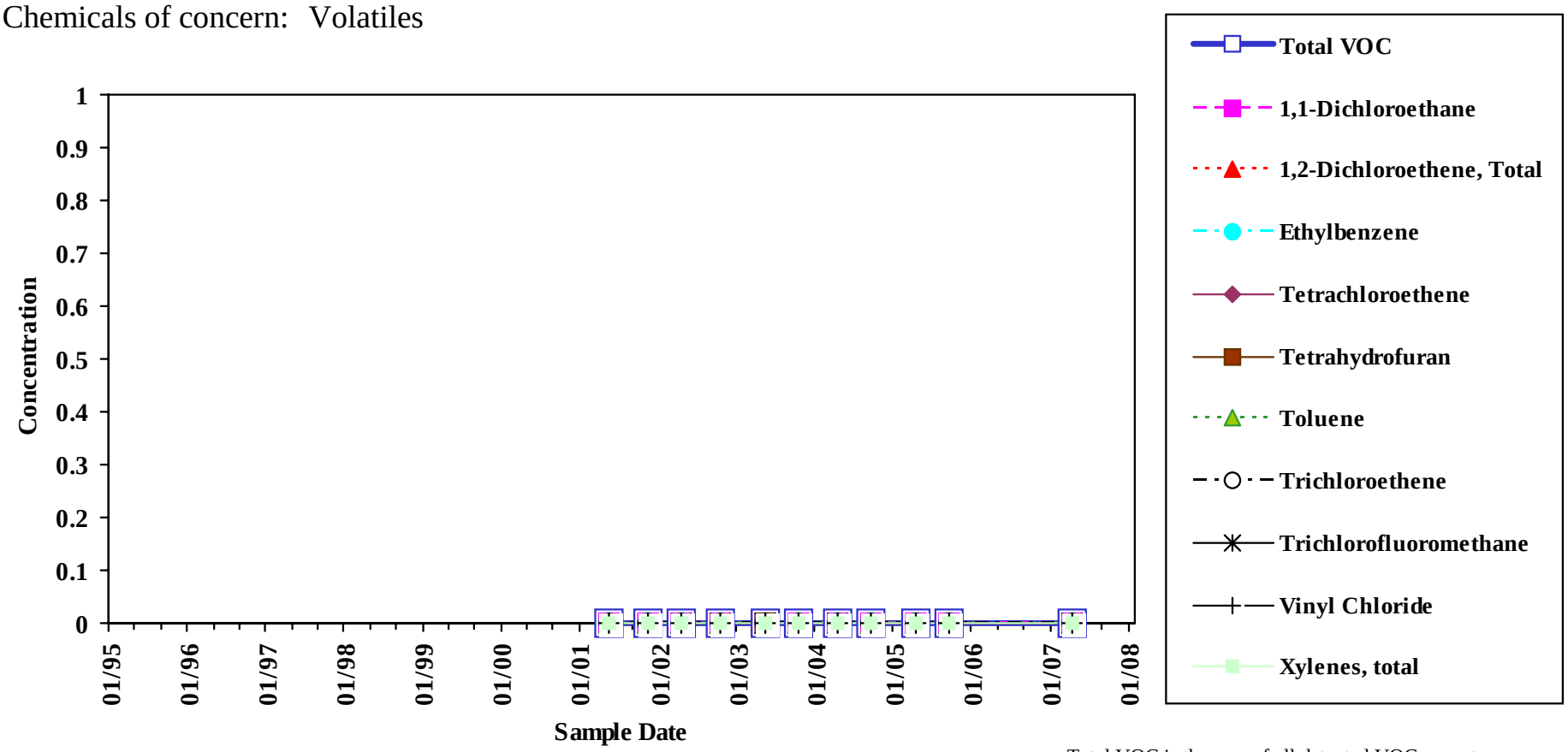
# MW-NASB-071

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

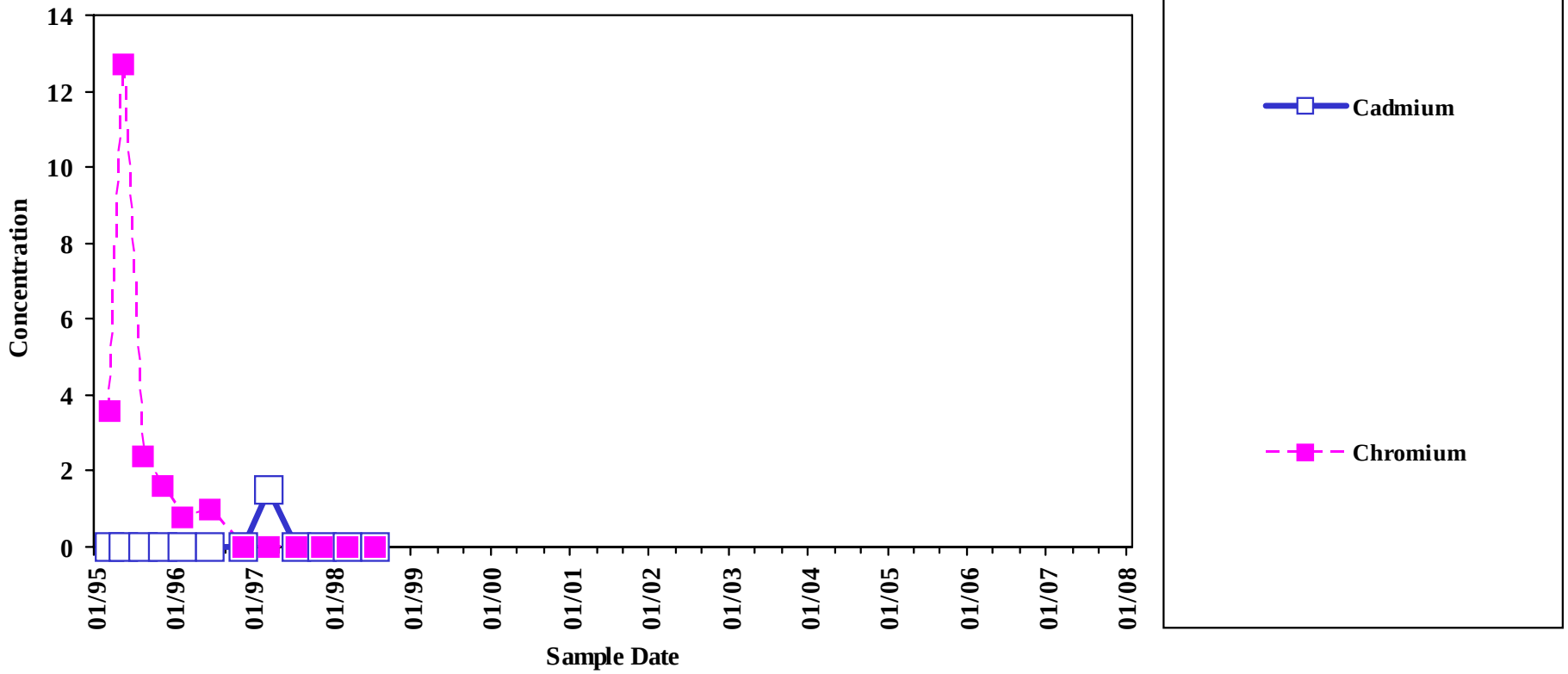
# MW-NASB-072

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

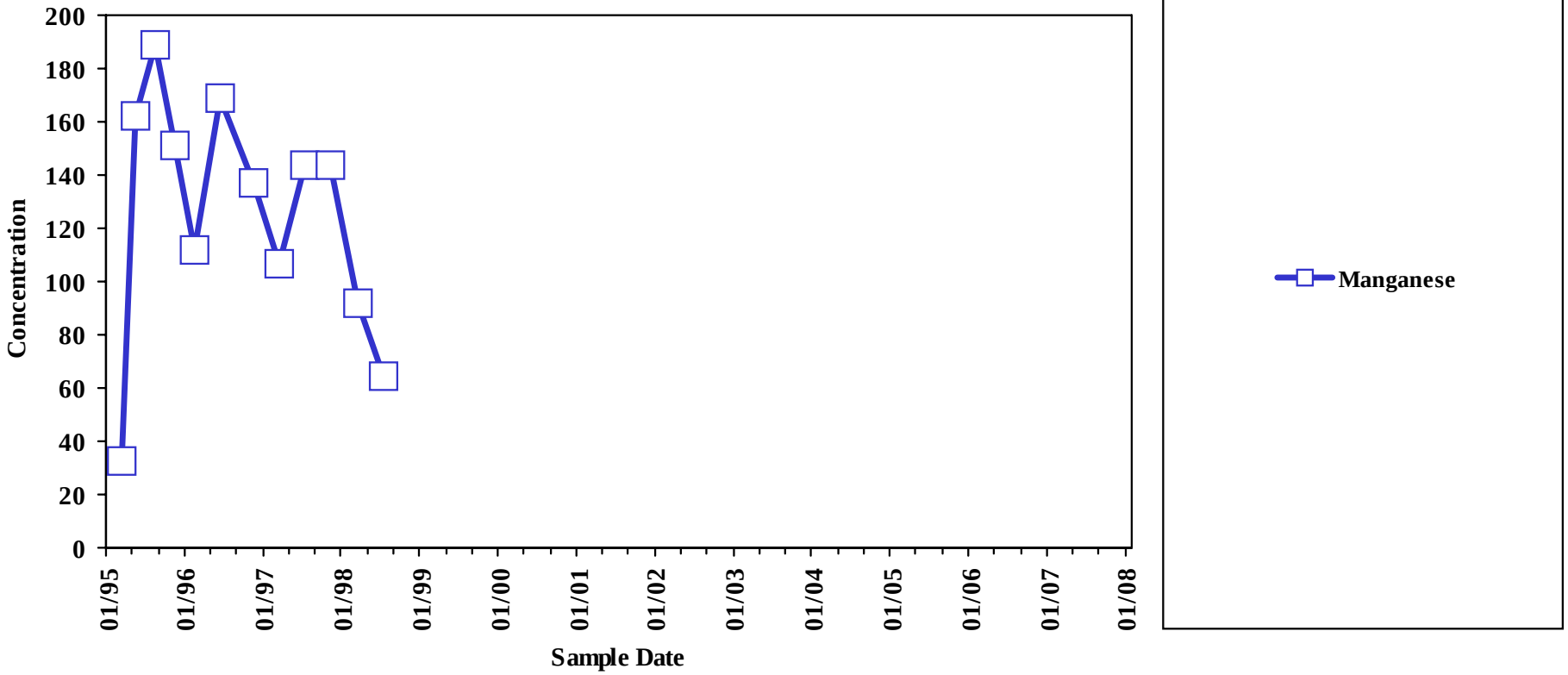
# MW-NASB-072

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

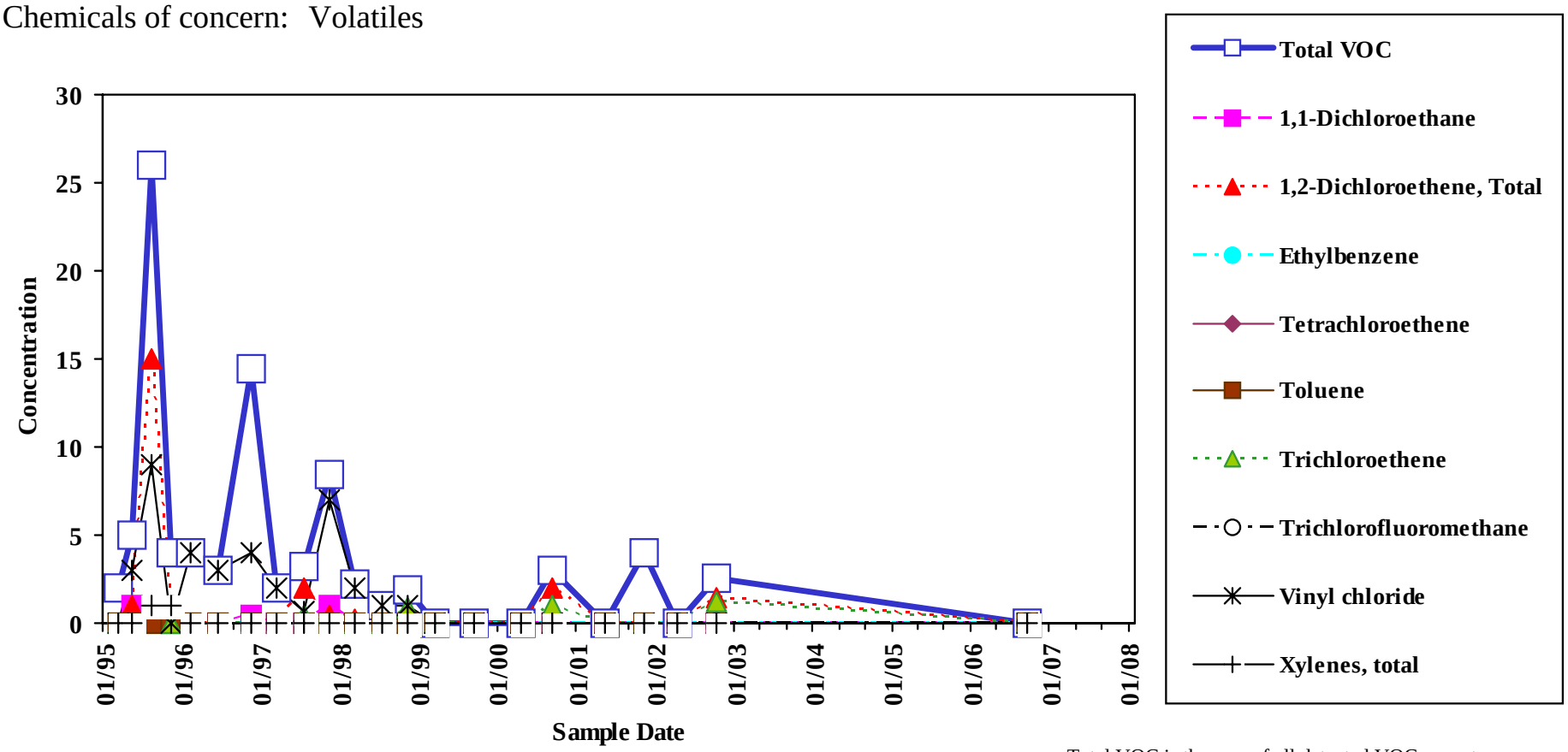
# MW-NASB-072

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

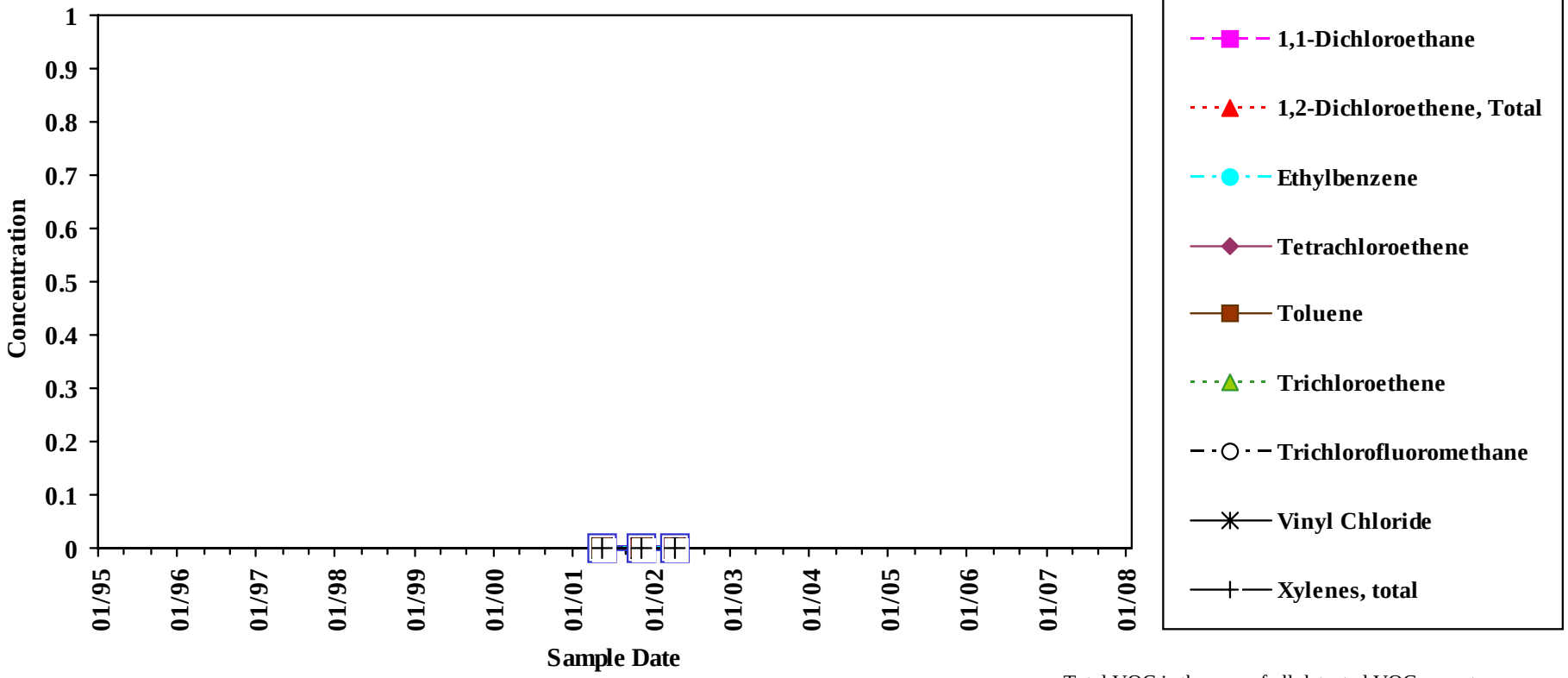
# MW-NASB-072

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

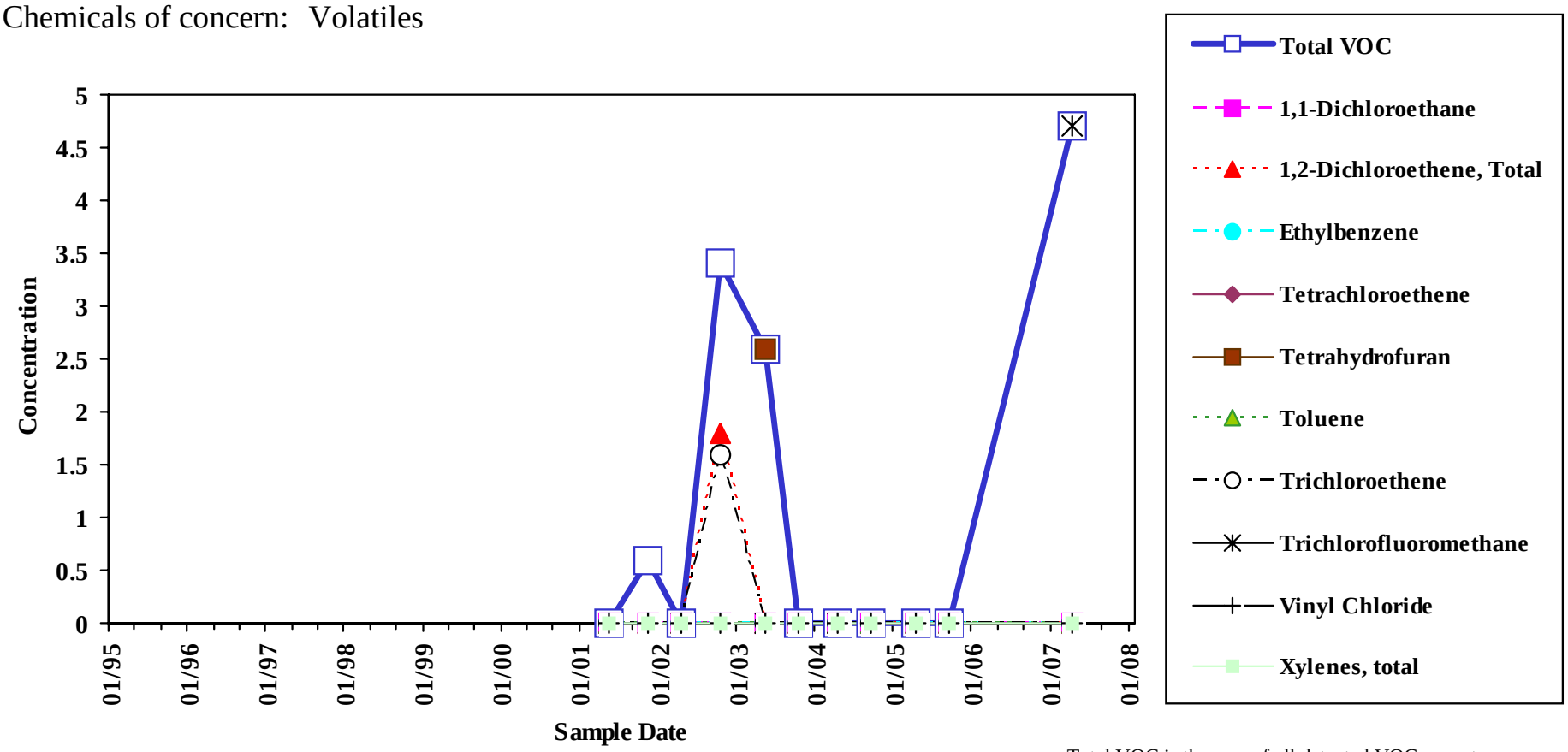
# MW-NASB-072

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

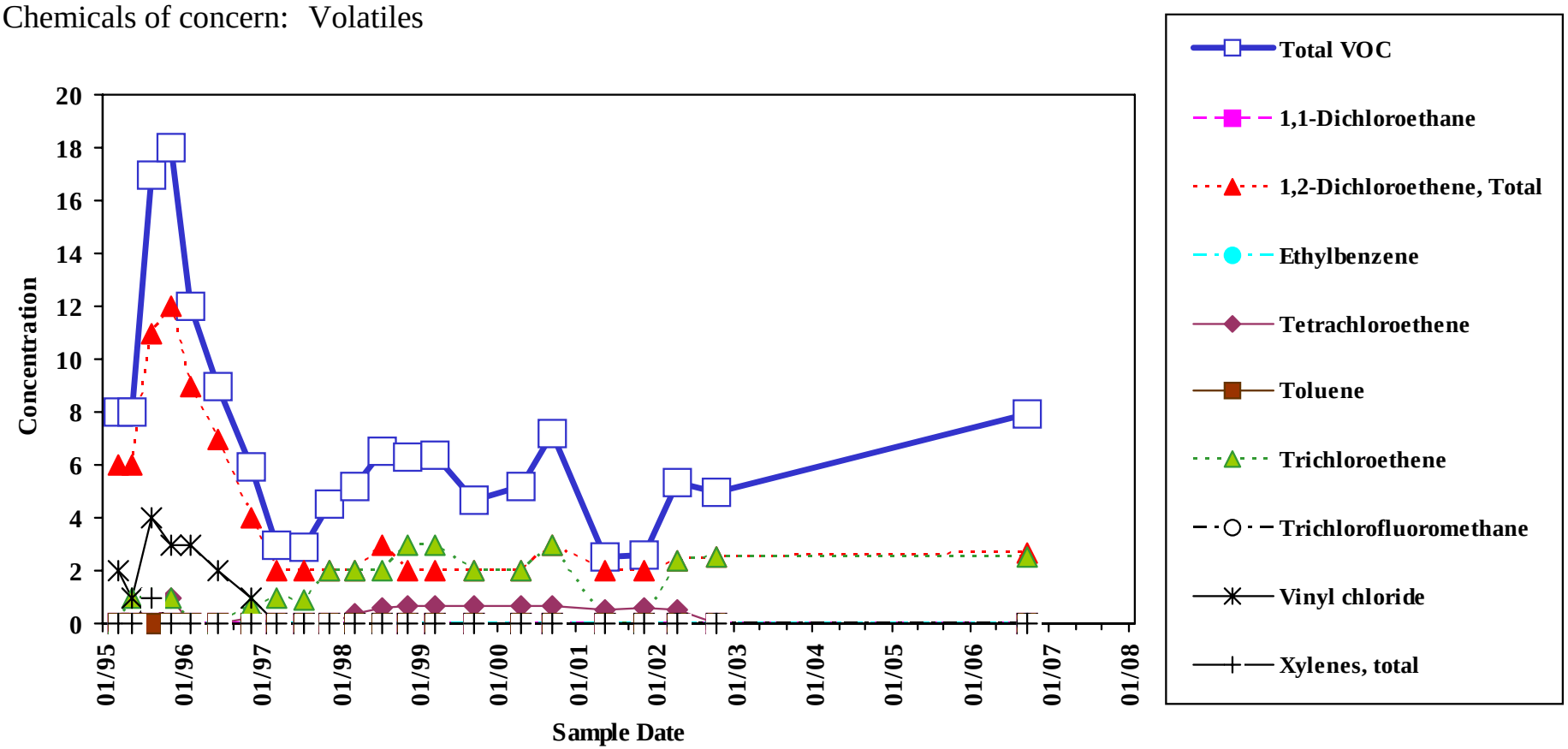
# MW-NASB-074

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |

| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
|---|---|---|---|---|---|---|---|---|
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |

| Vinyl Chloride | Xylenes, Total |
|---|---|
| 2 | 10,000 |

Sample Location:

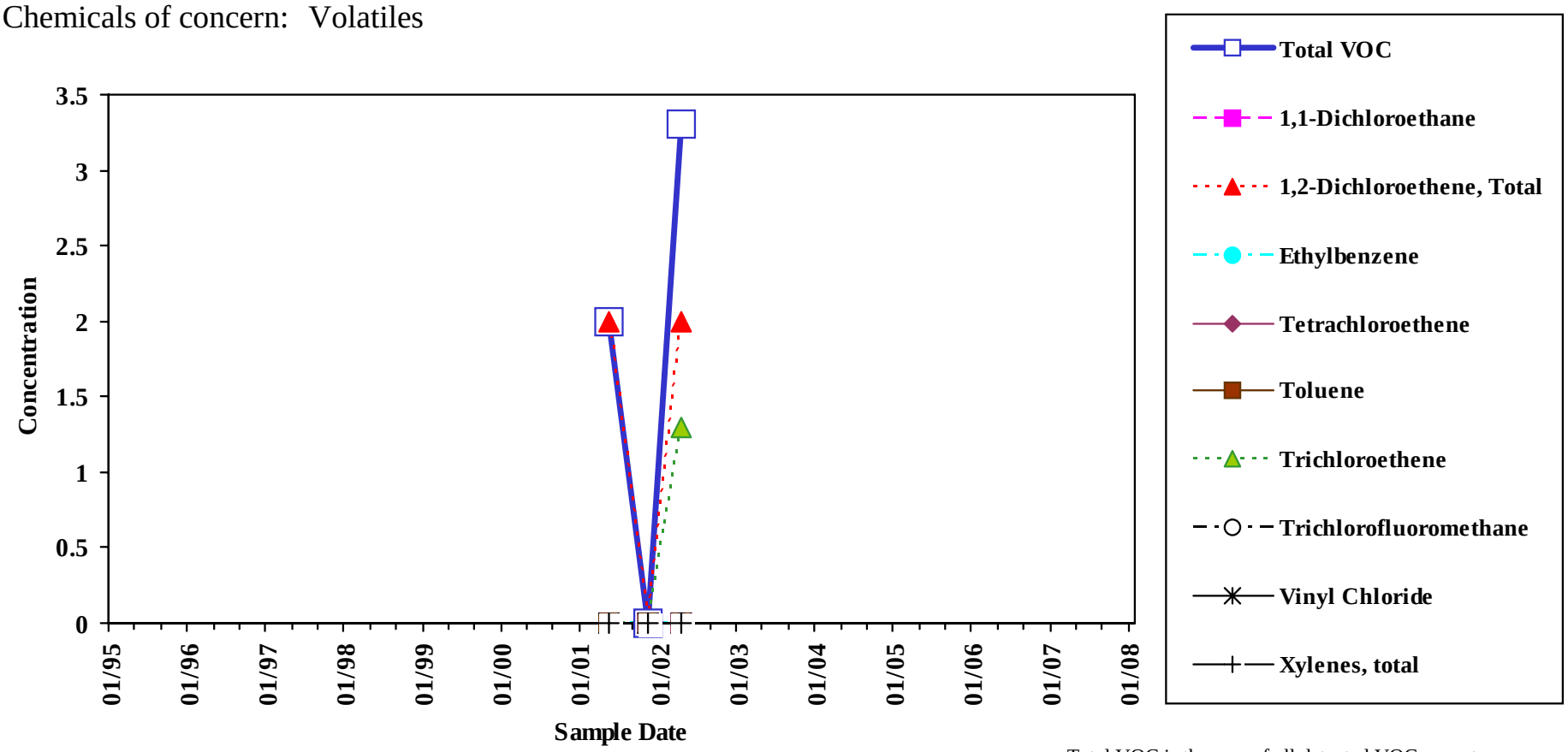
# MW-NASB-074

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

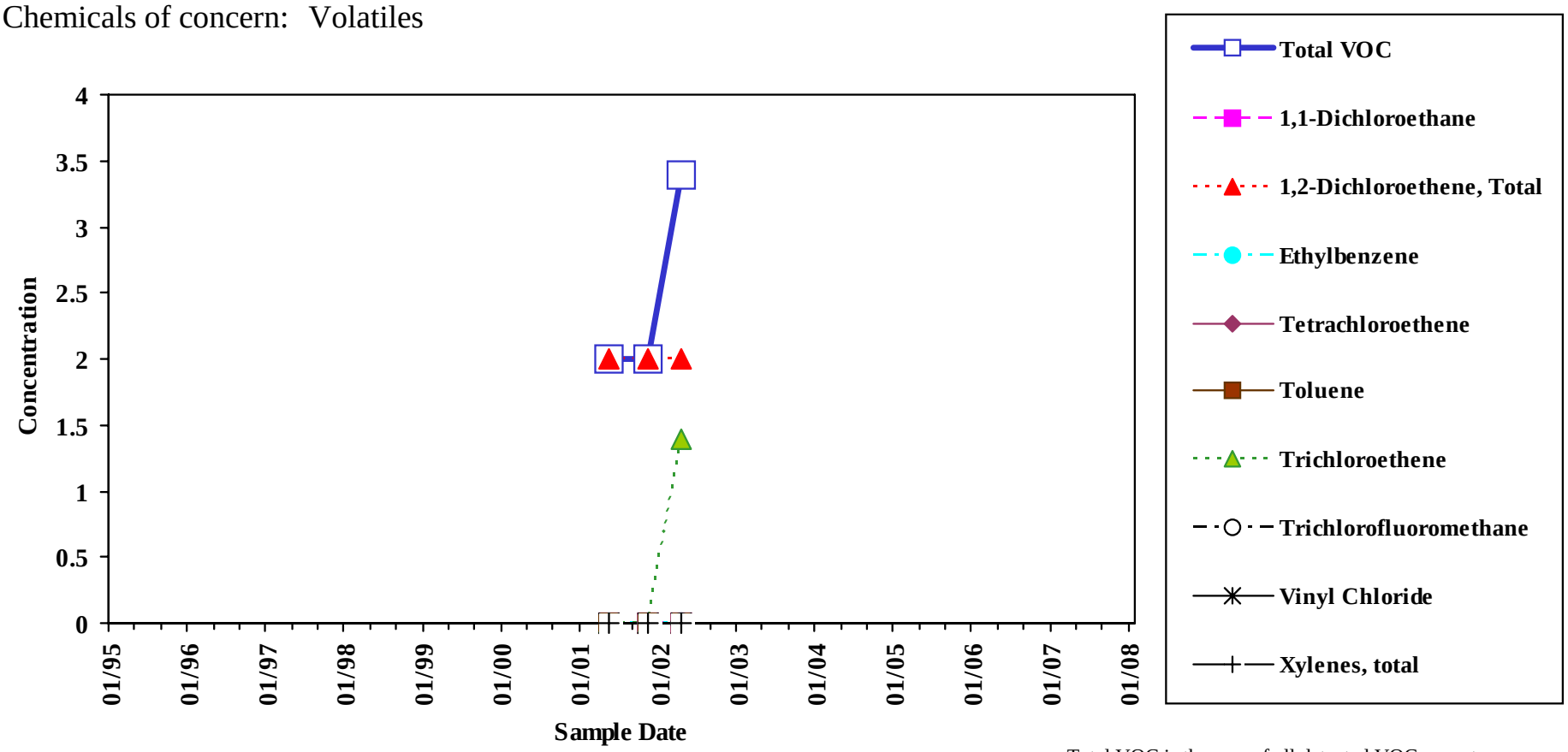
# MW-NASB-074

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

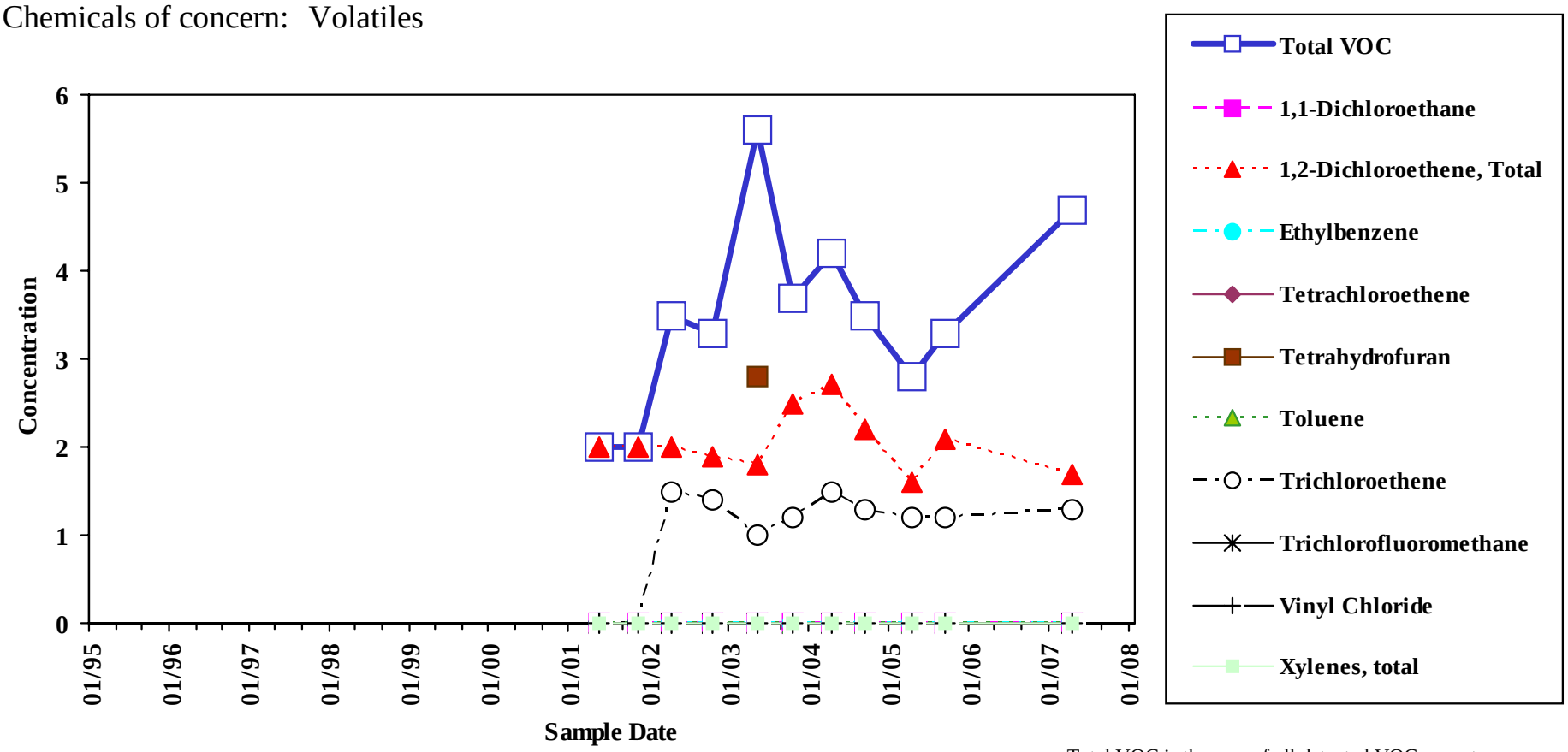
# MW-NASB-074

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

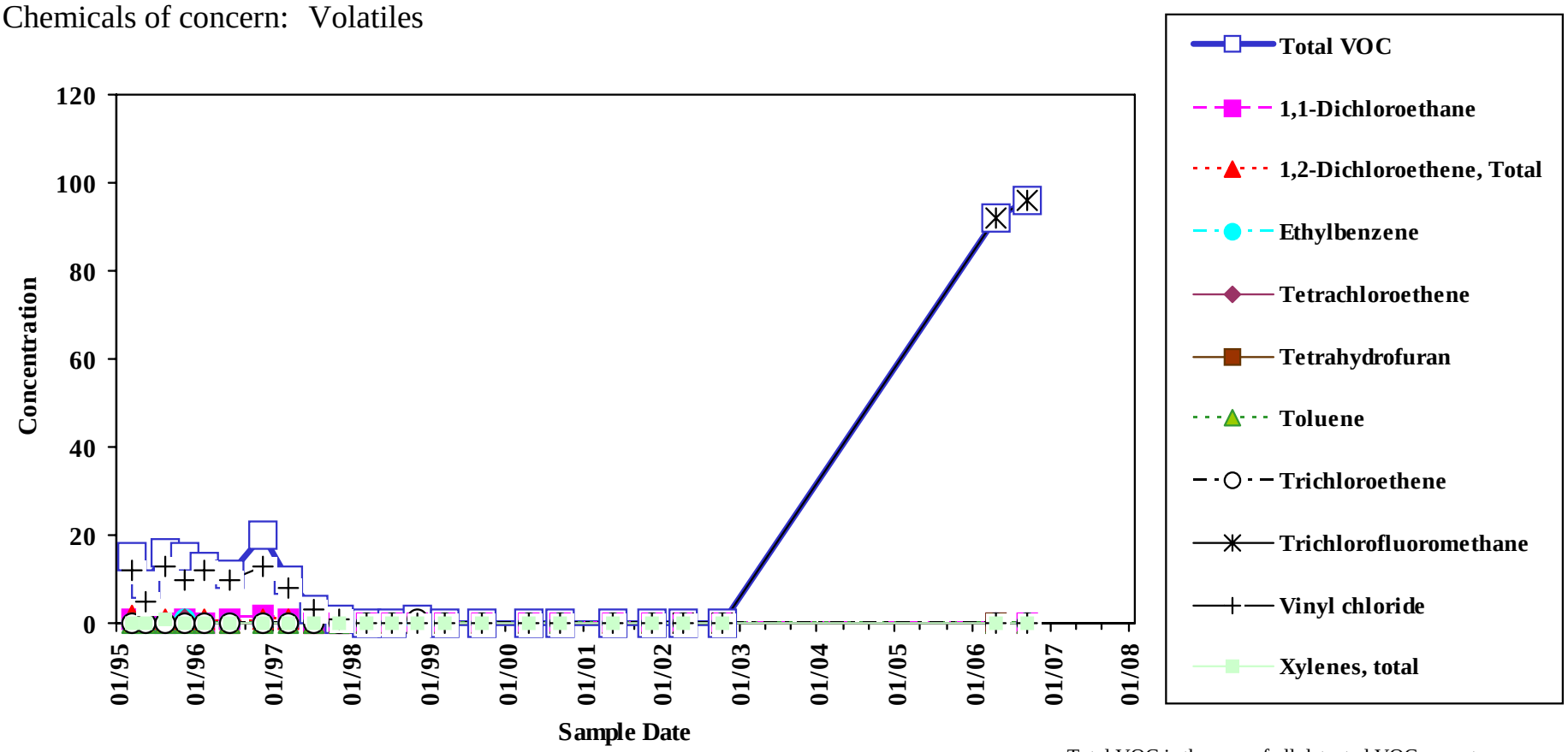
# MW-NASB-075

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

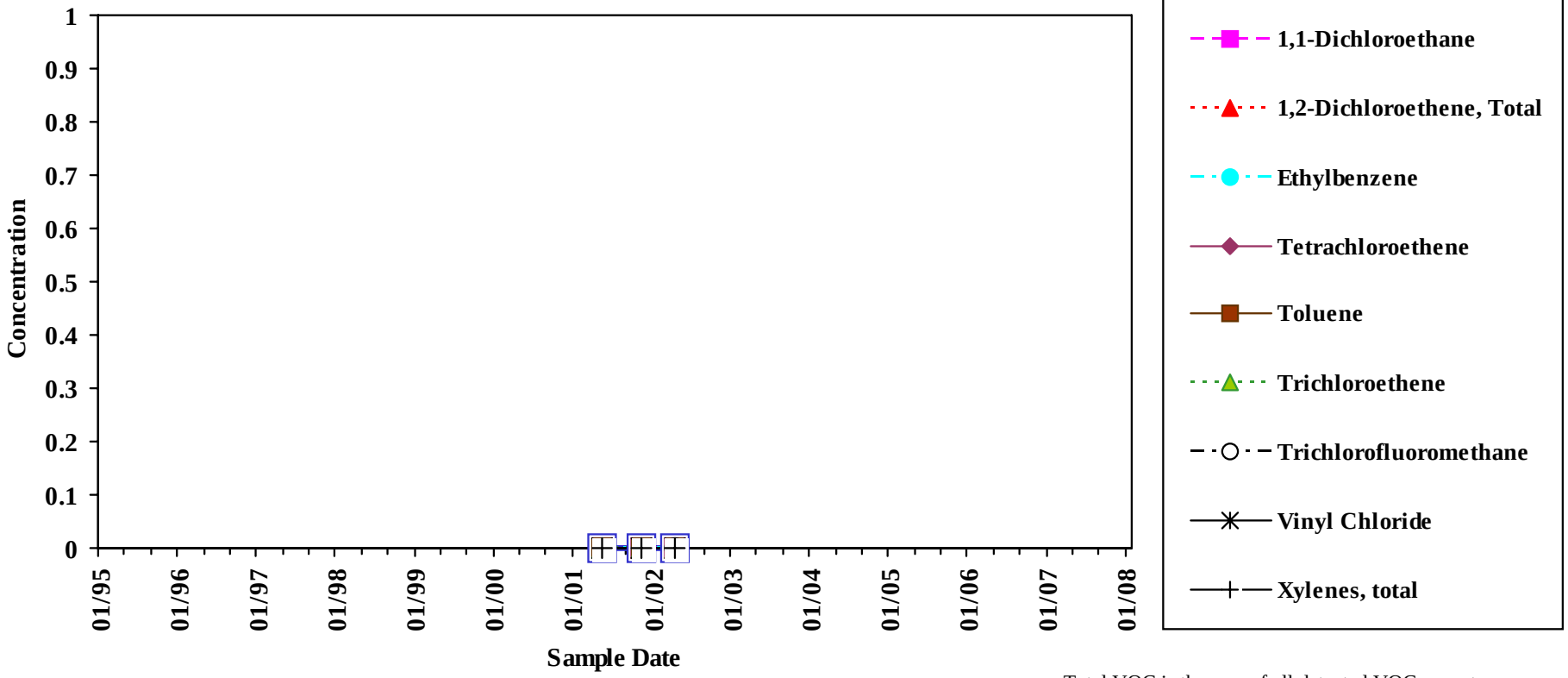
# MW-NASB-075

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

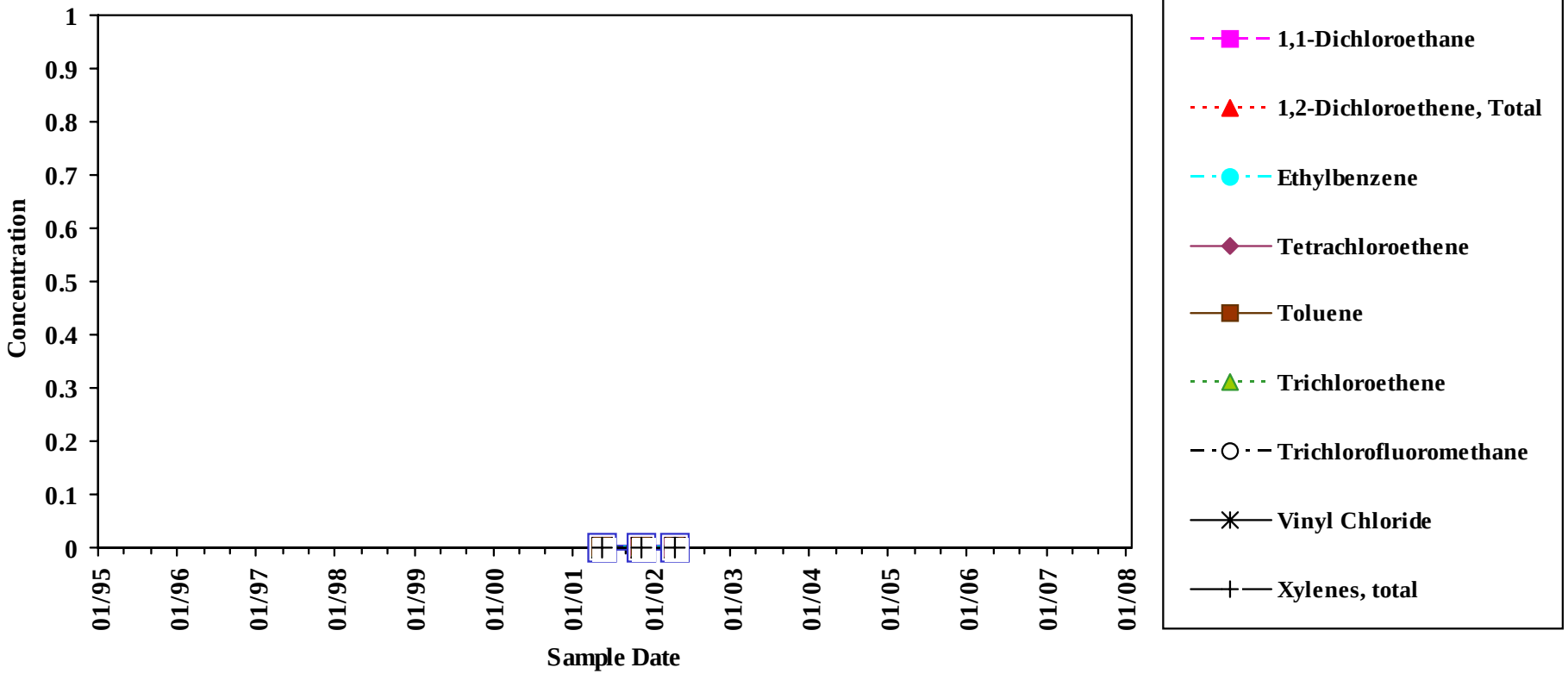
# MW-NASB-075

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

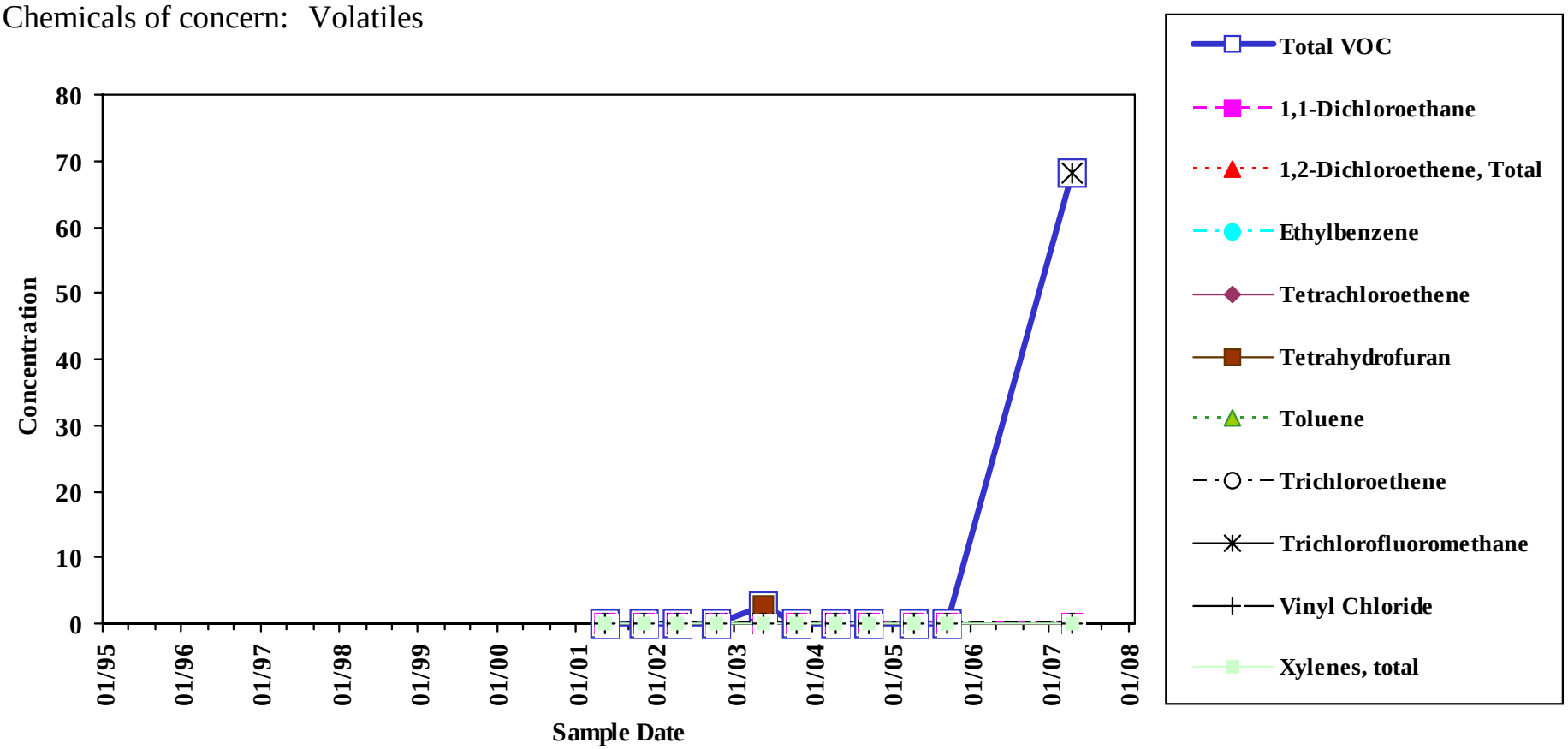
# MW-NASB-075

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

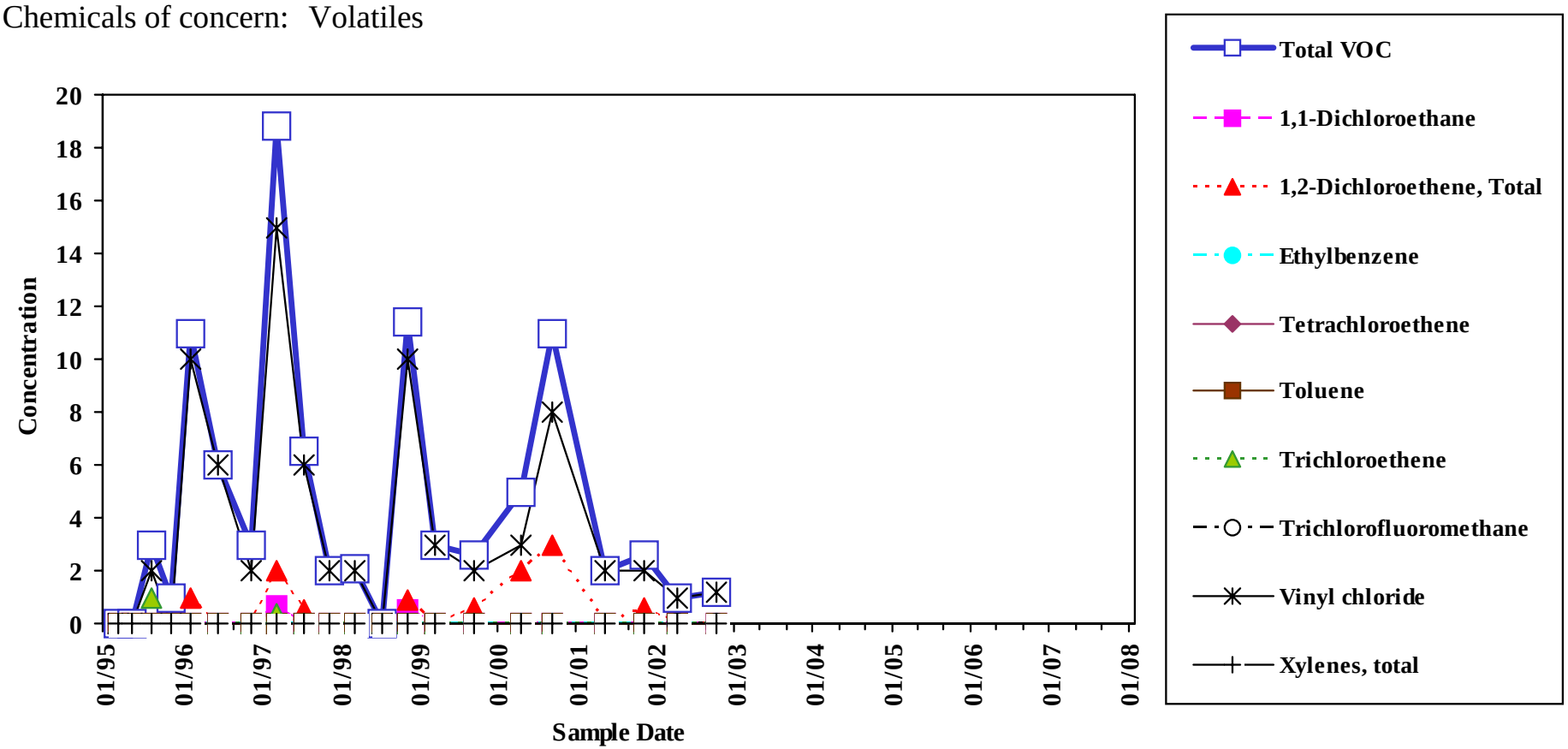
# MW-NASB-076

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

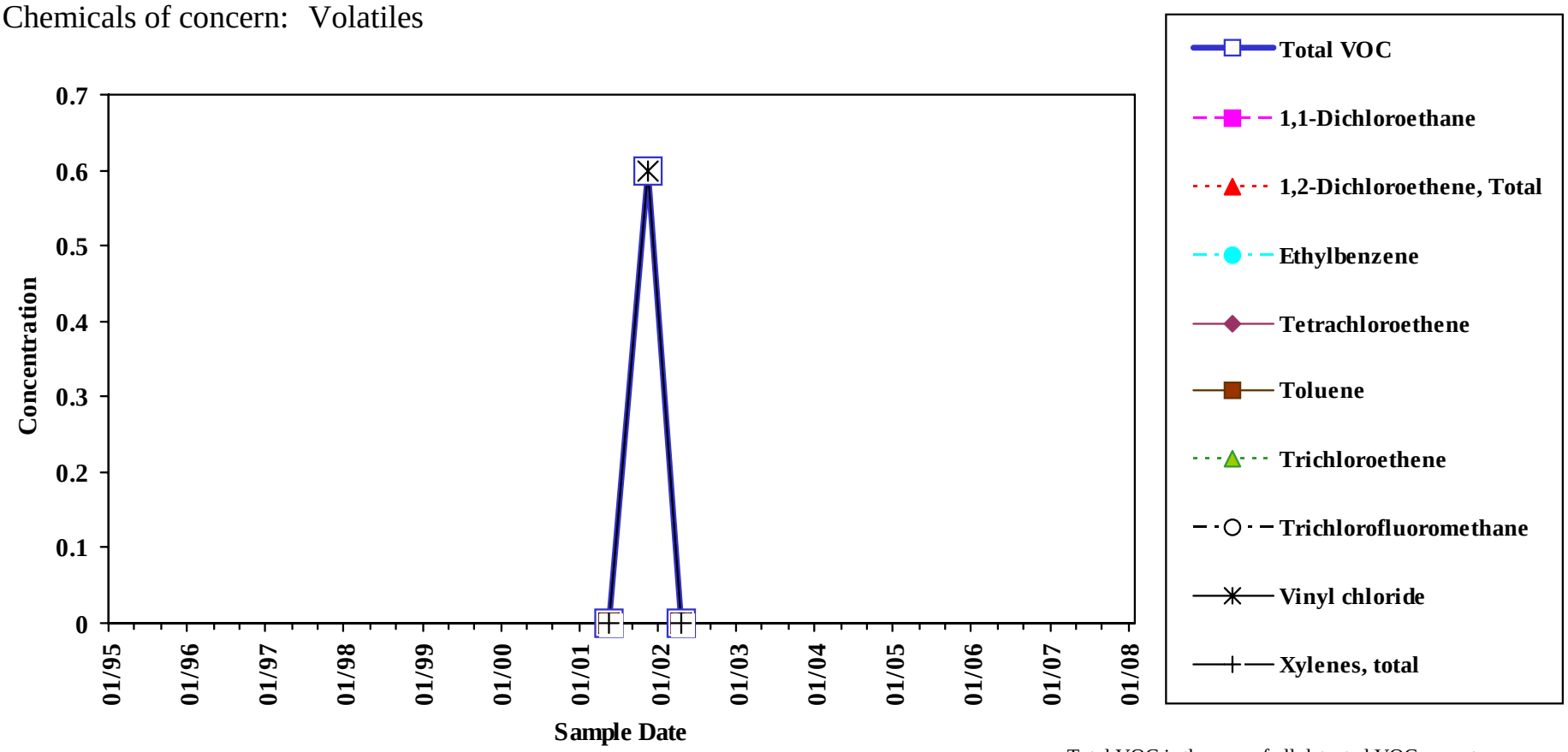
# MW-NASB-076

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

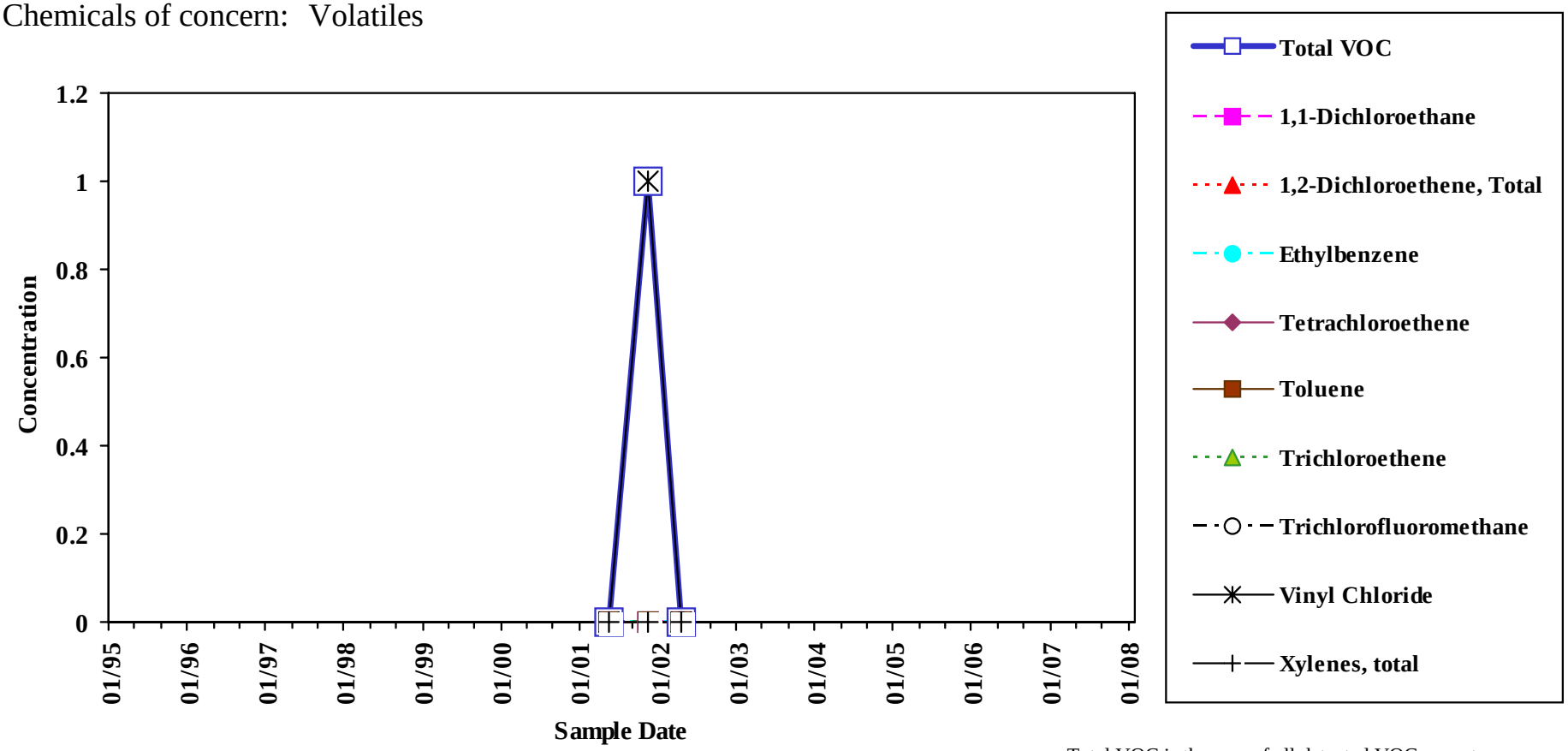
# MW-NASB-076

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

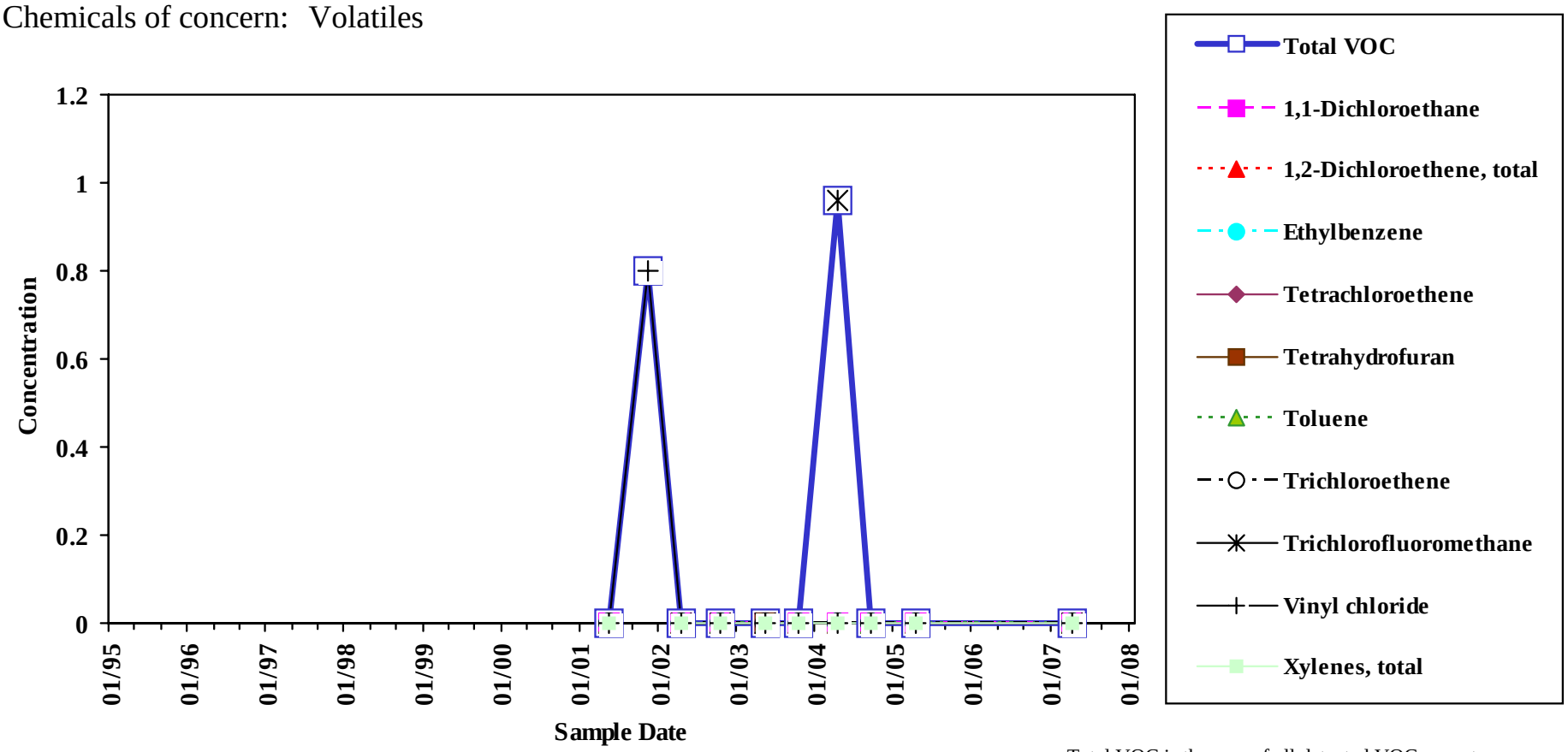
# MW-NASB-076

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

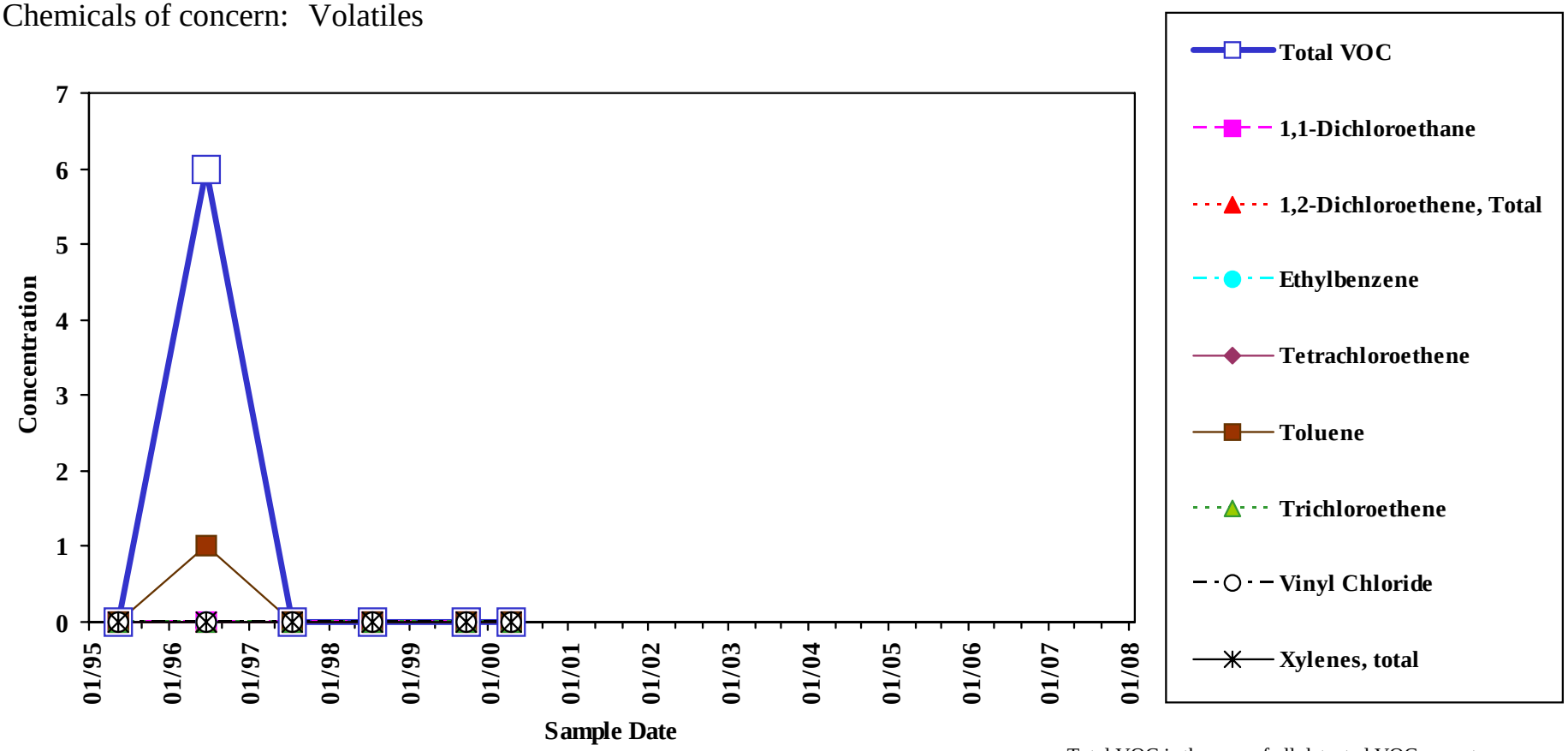
# MW-NASB-077

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

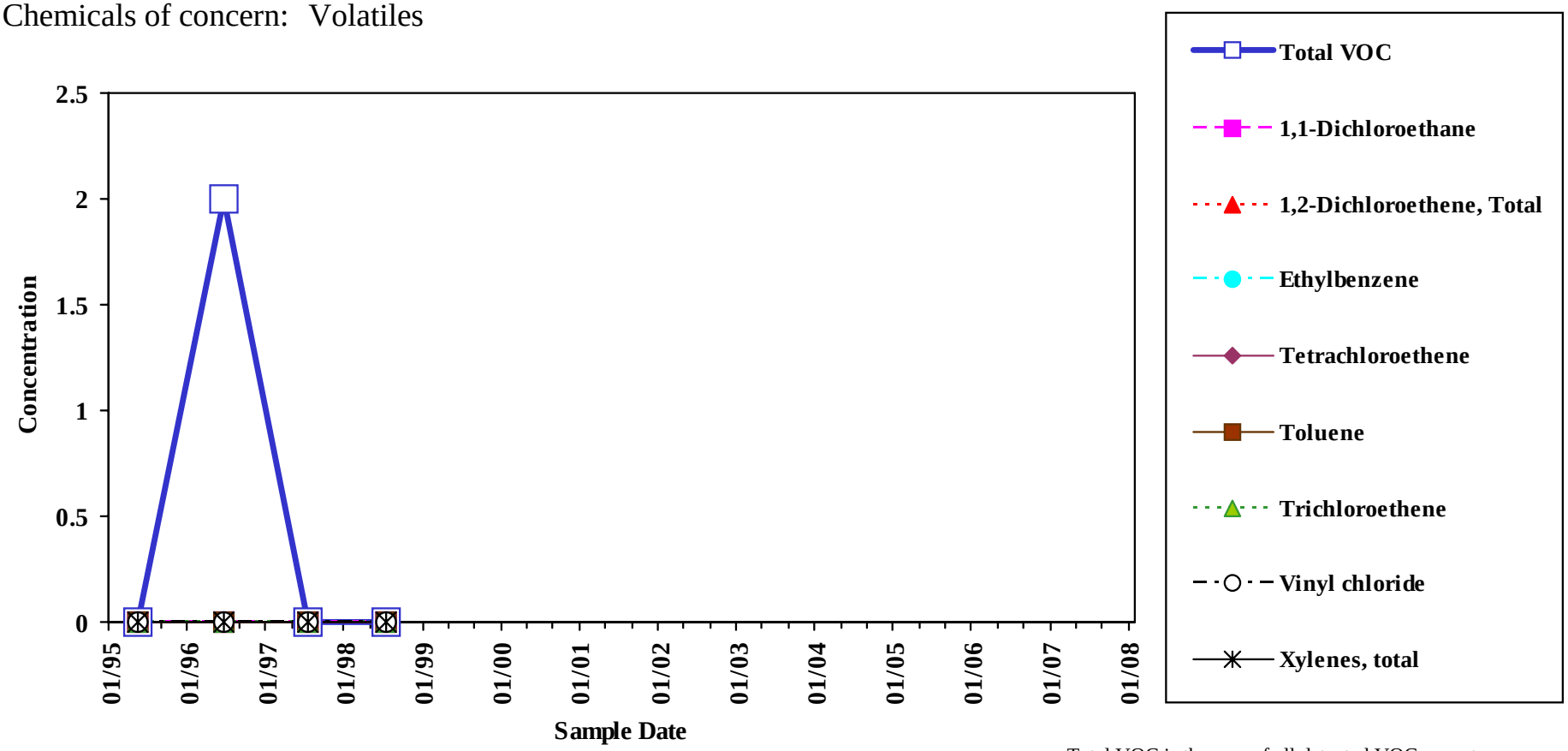
# MW-NASB-078

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

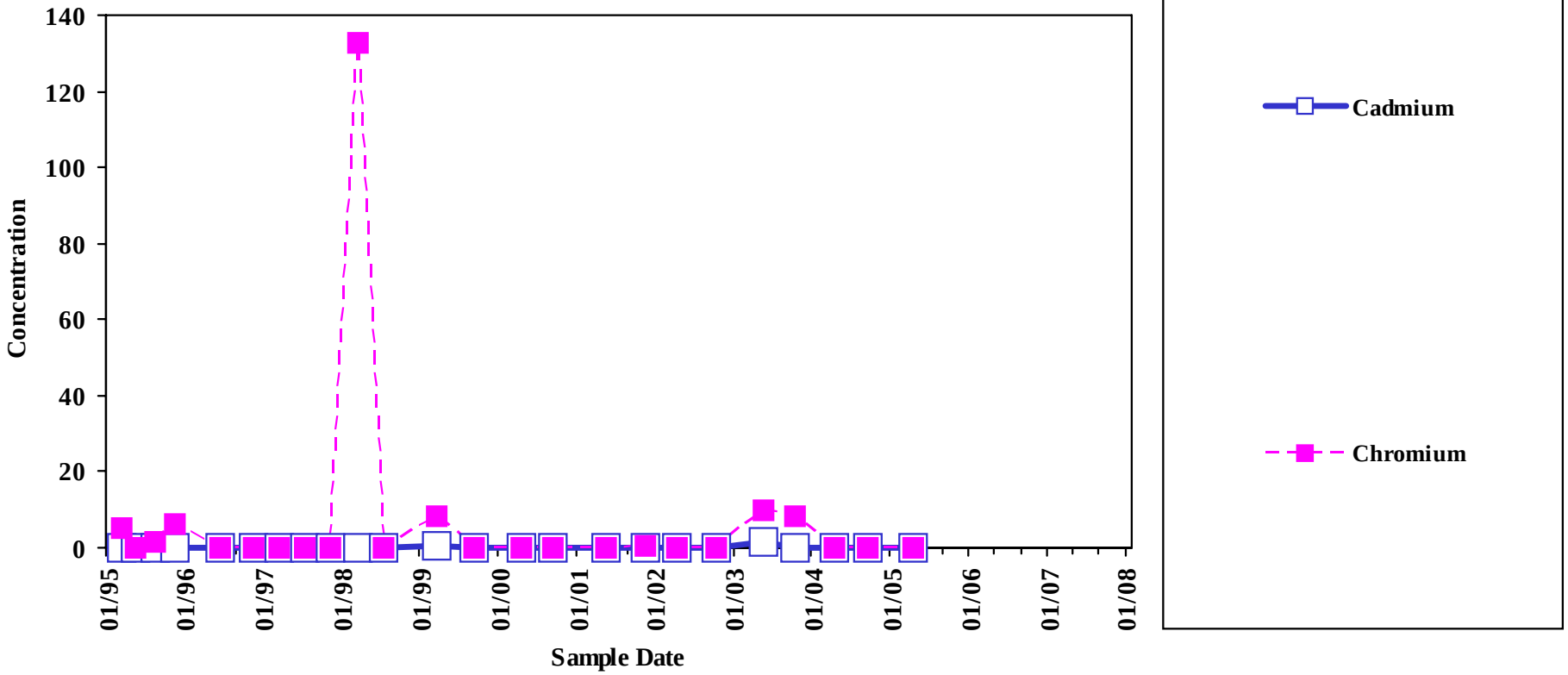
**MW-NASB-079**

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

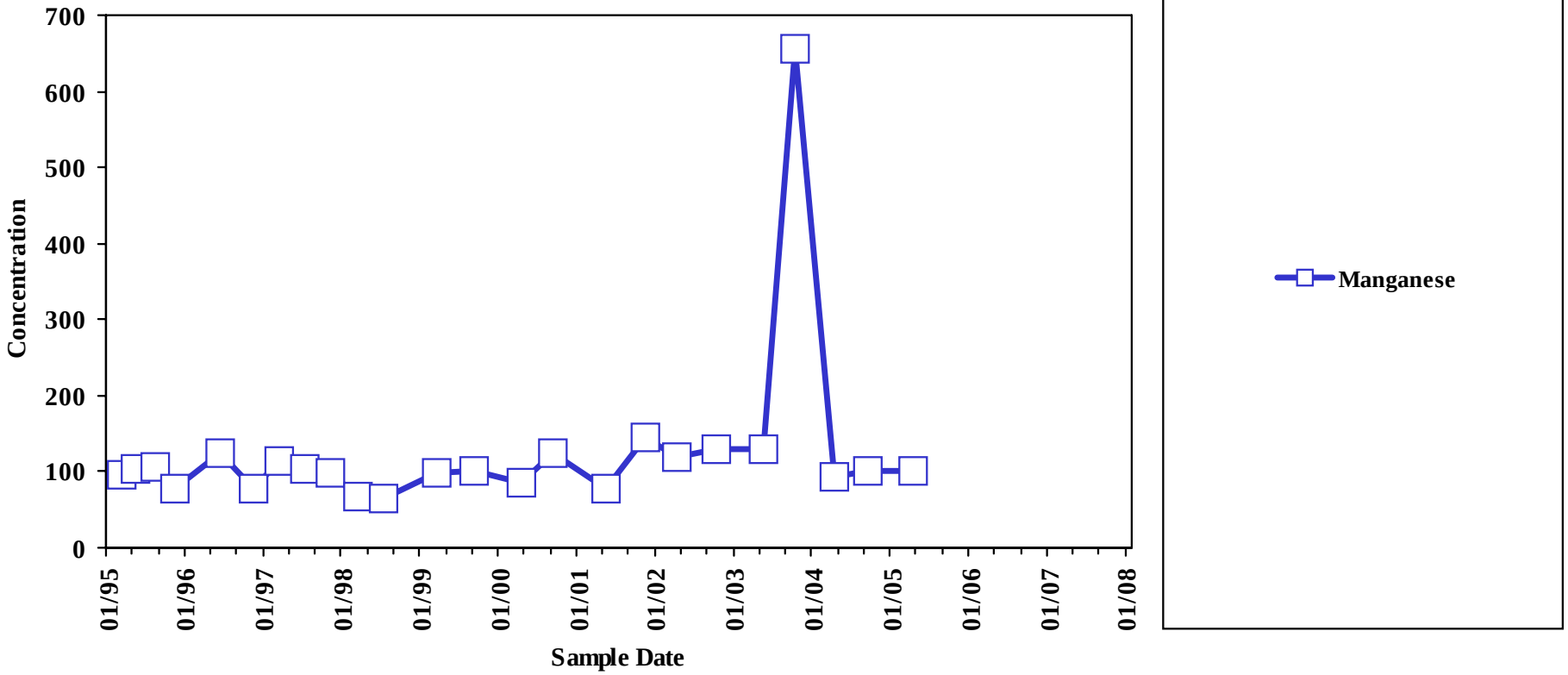
# MW-NASB-079

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

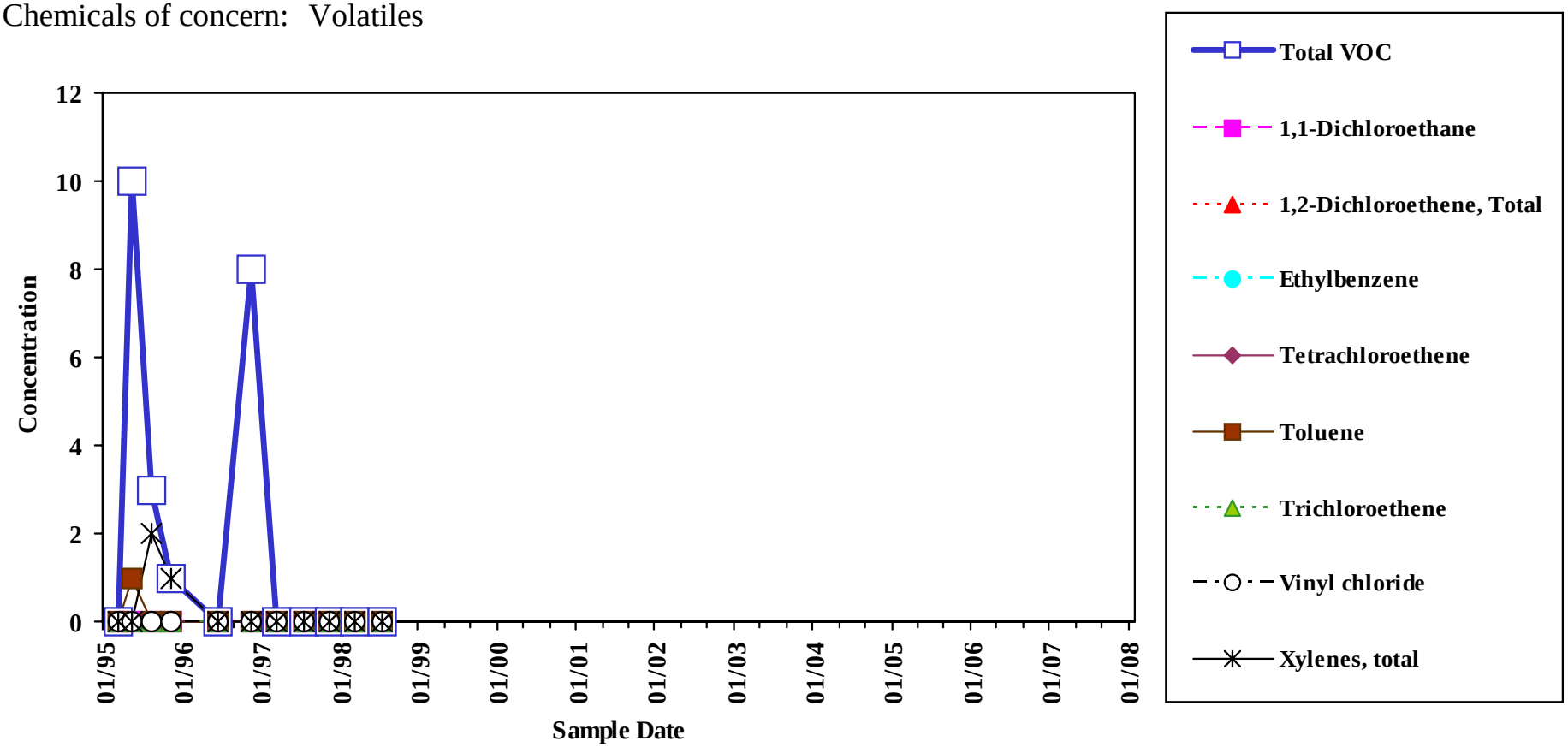
# MW-NASB-079

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

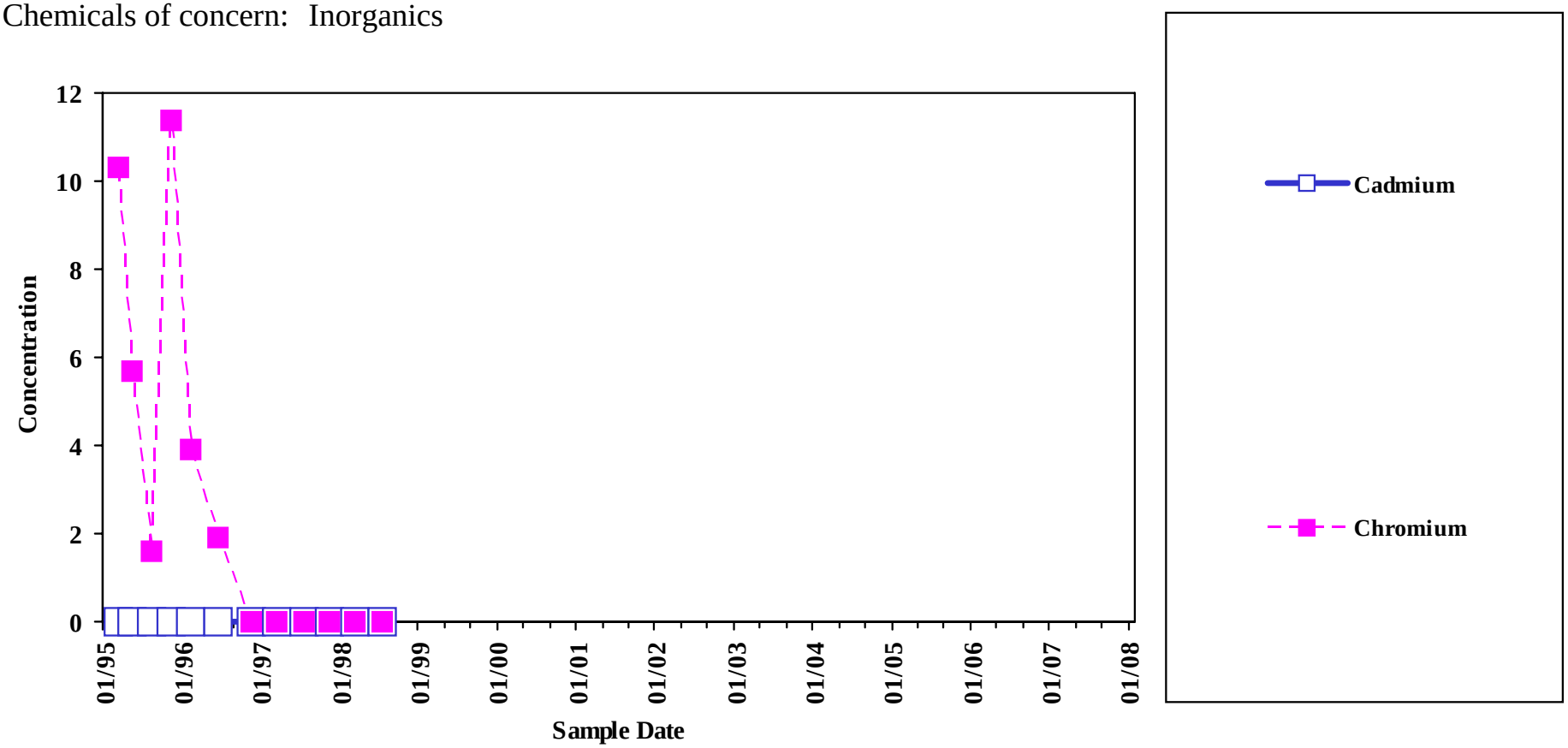
# MW-NASB-080

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

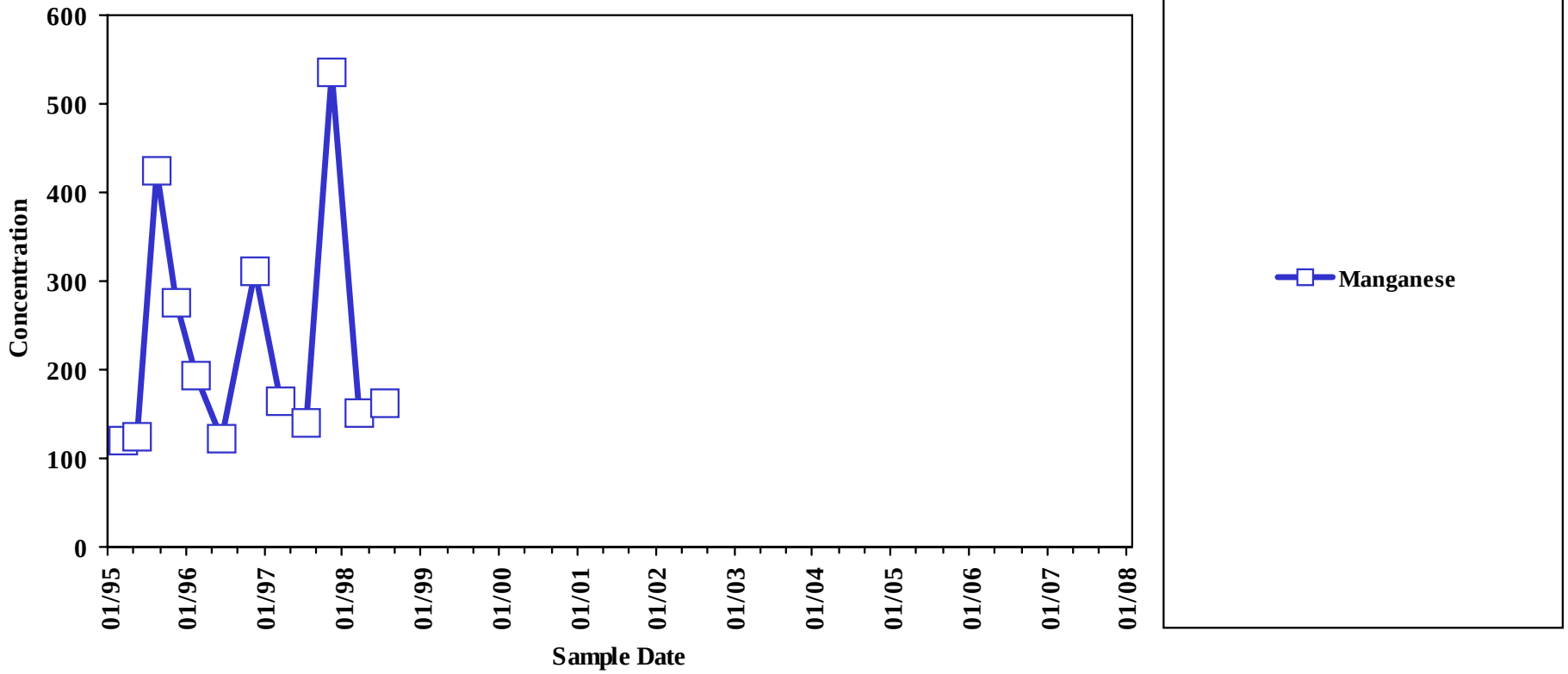
# MW-NASB-080

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

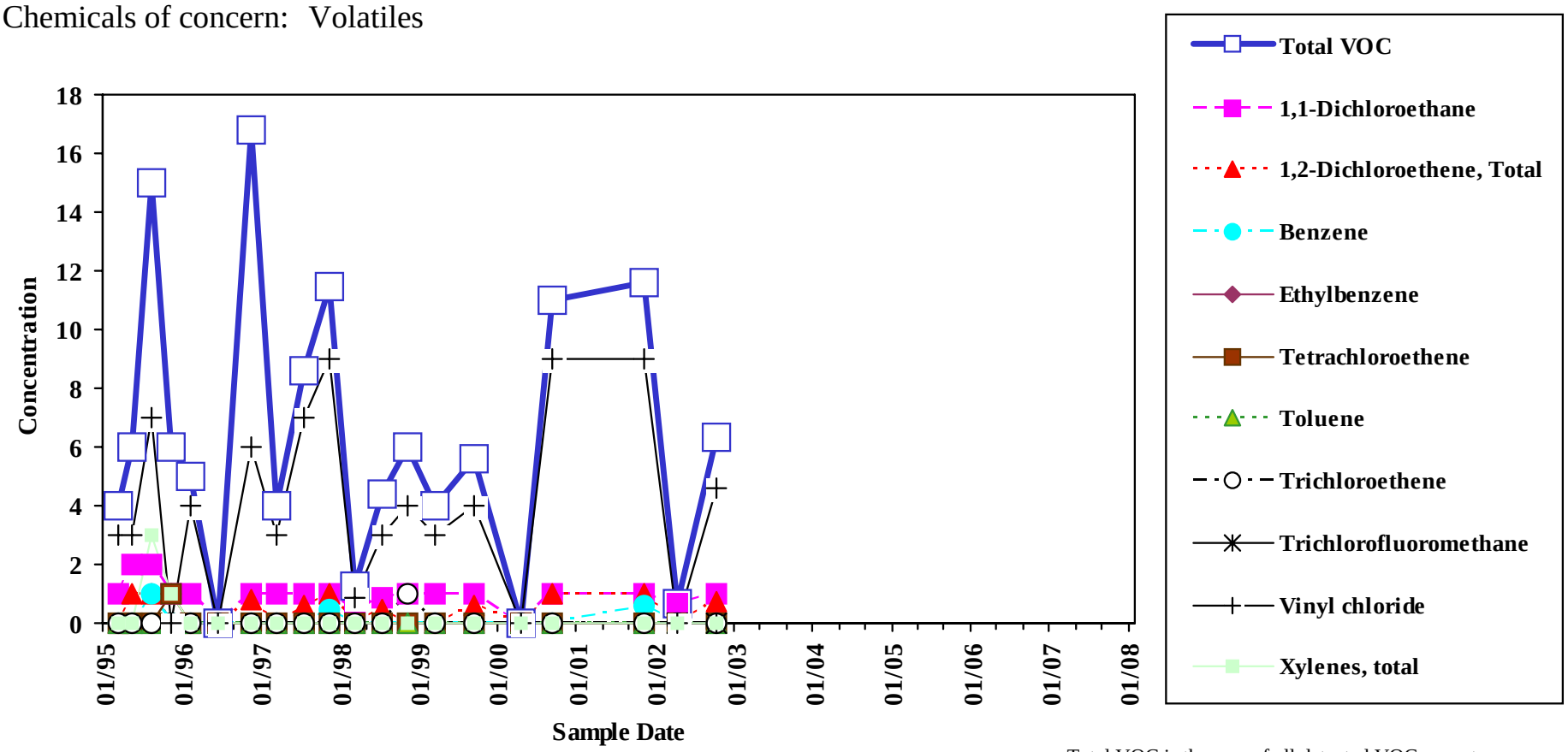
# MW-NASB-080

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |

| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
|---|---|---|---|---|---|---|---|---|
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |

| Vinyl Chloride | Xylenes, Total |
|---|---|
| 2 | 10,000 |

Sample Location:

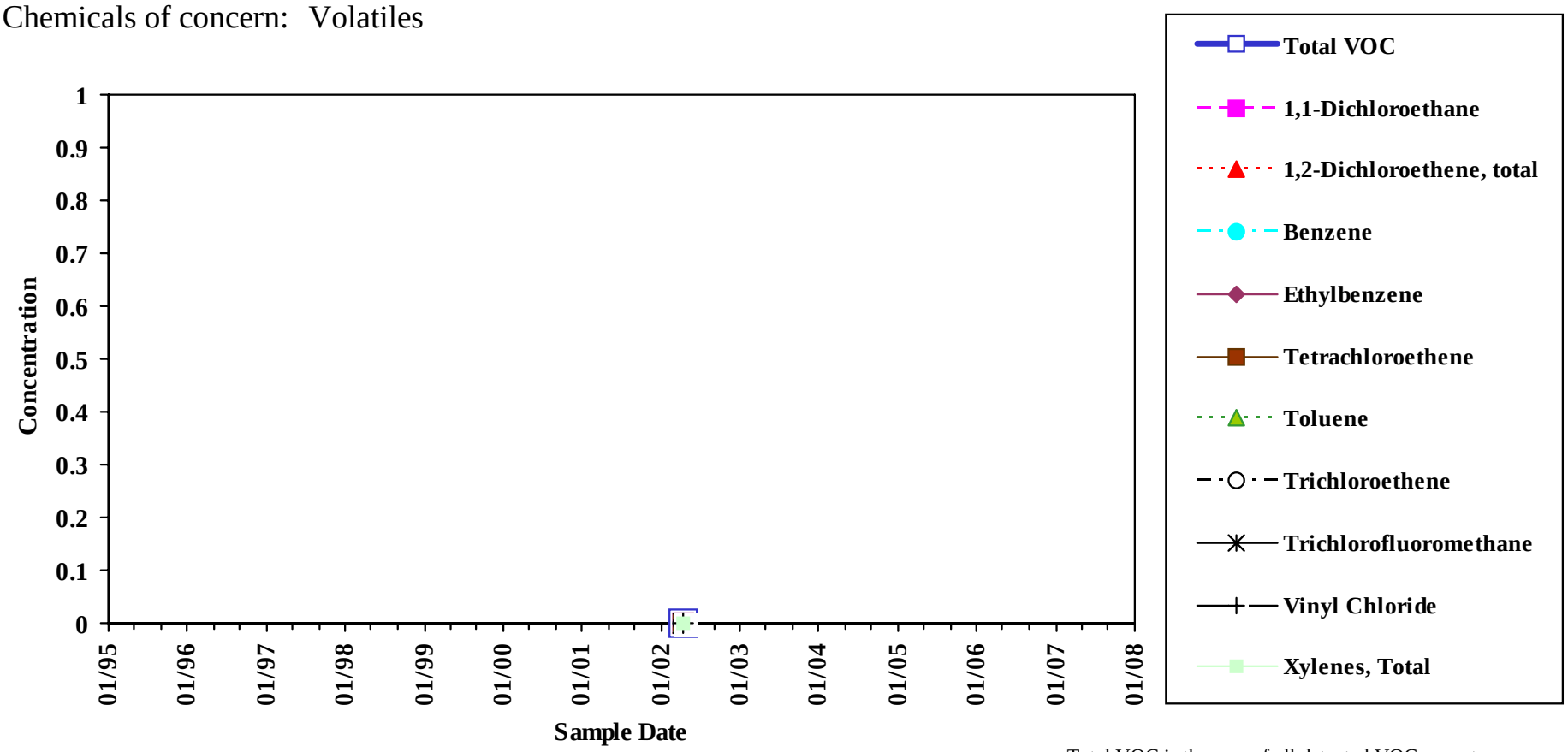
# MW-NASB-080

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

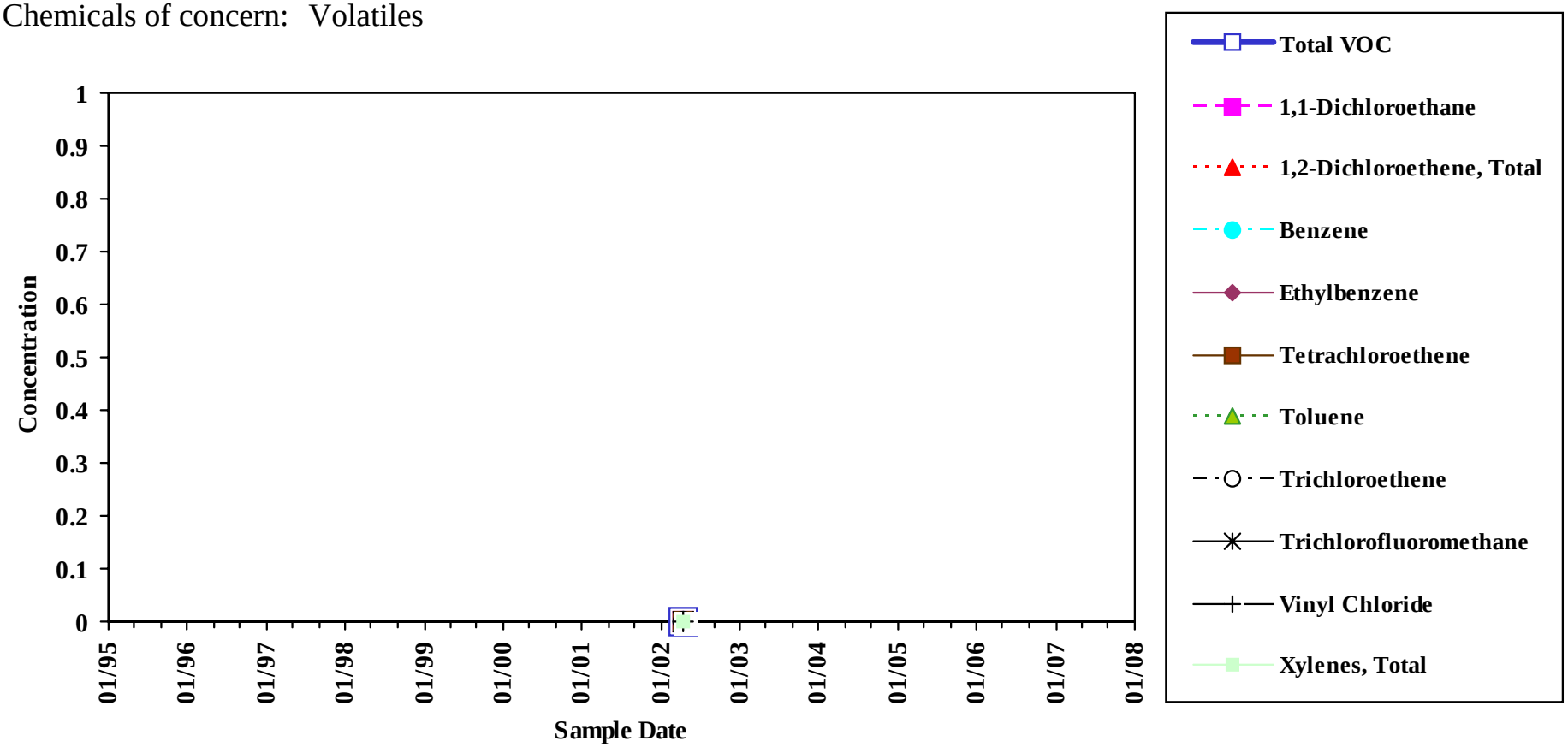
# MW-NASB-080

Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

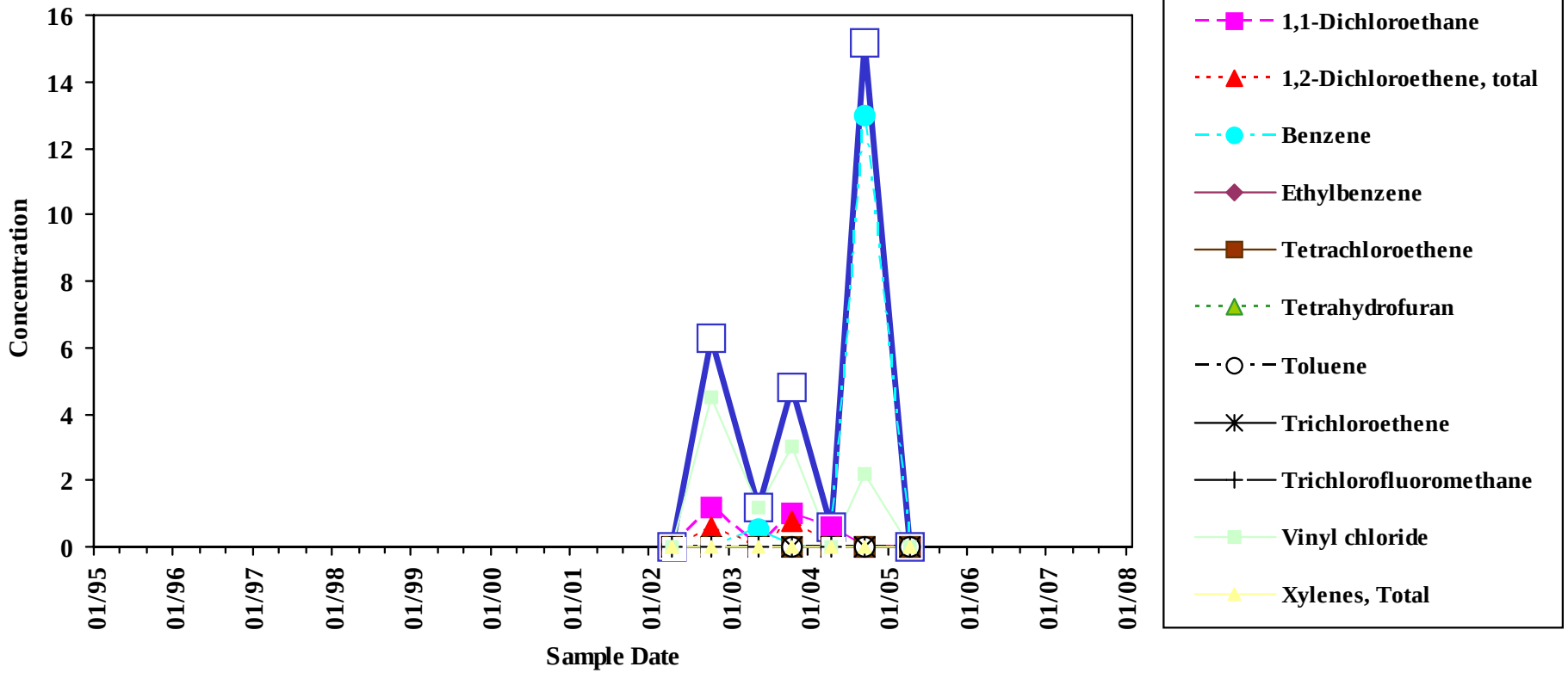
# MW-NASB-080

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

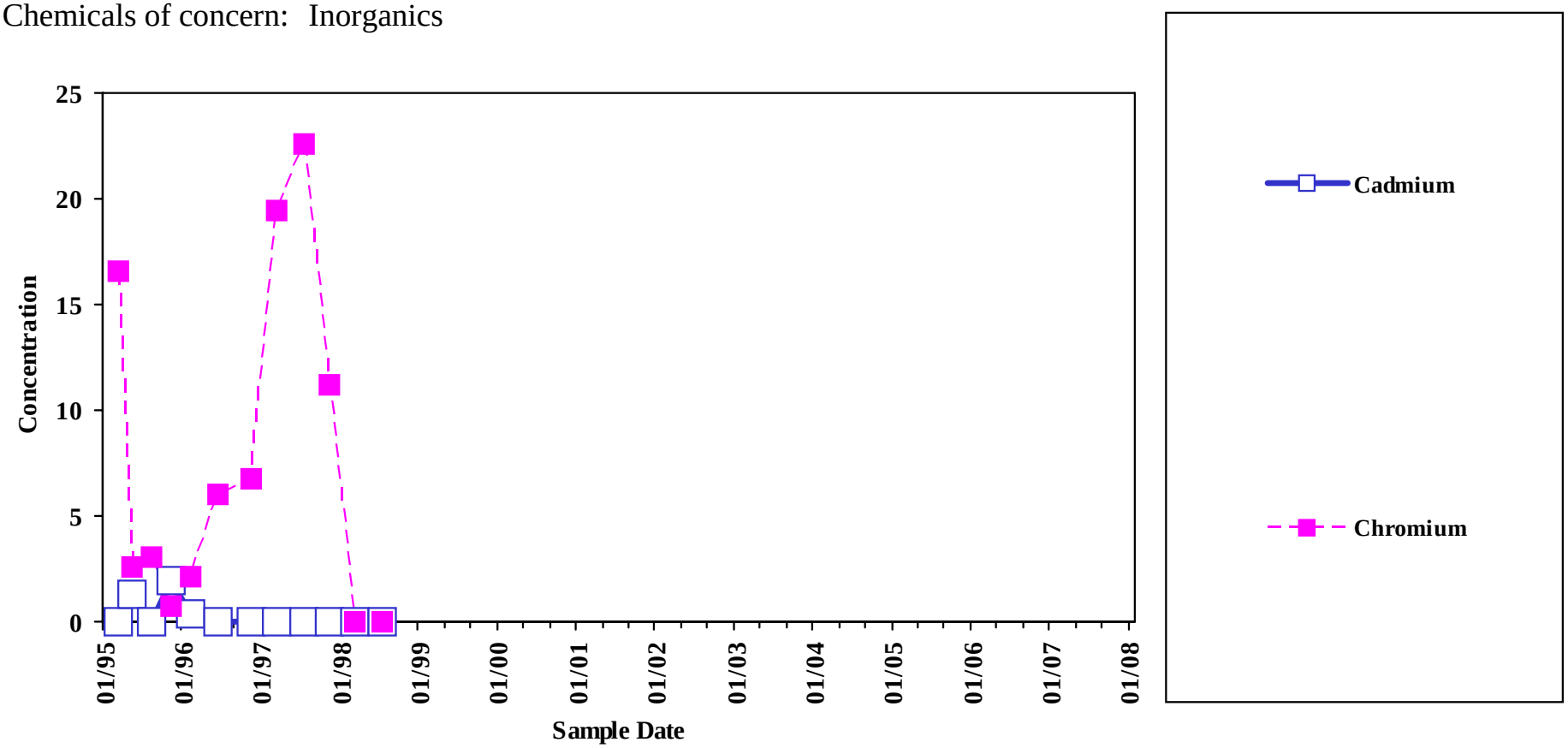
**MW-NASB-081**

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Cadmium | Chromium | MCL | Cadmium | Chromium |
|---|---|---|---|---|---|
| | 3.5 | 40 | | 5 | 100 |

Sample Location:

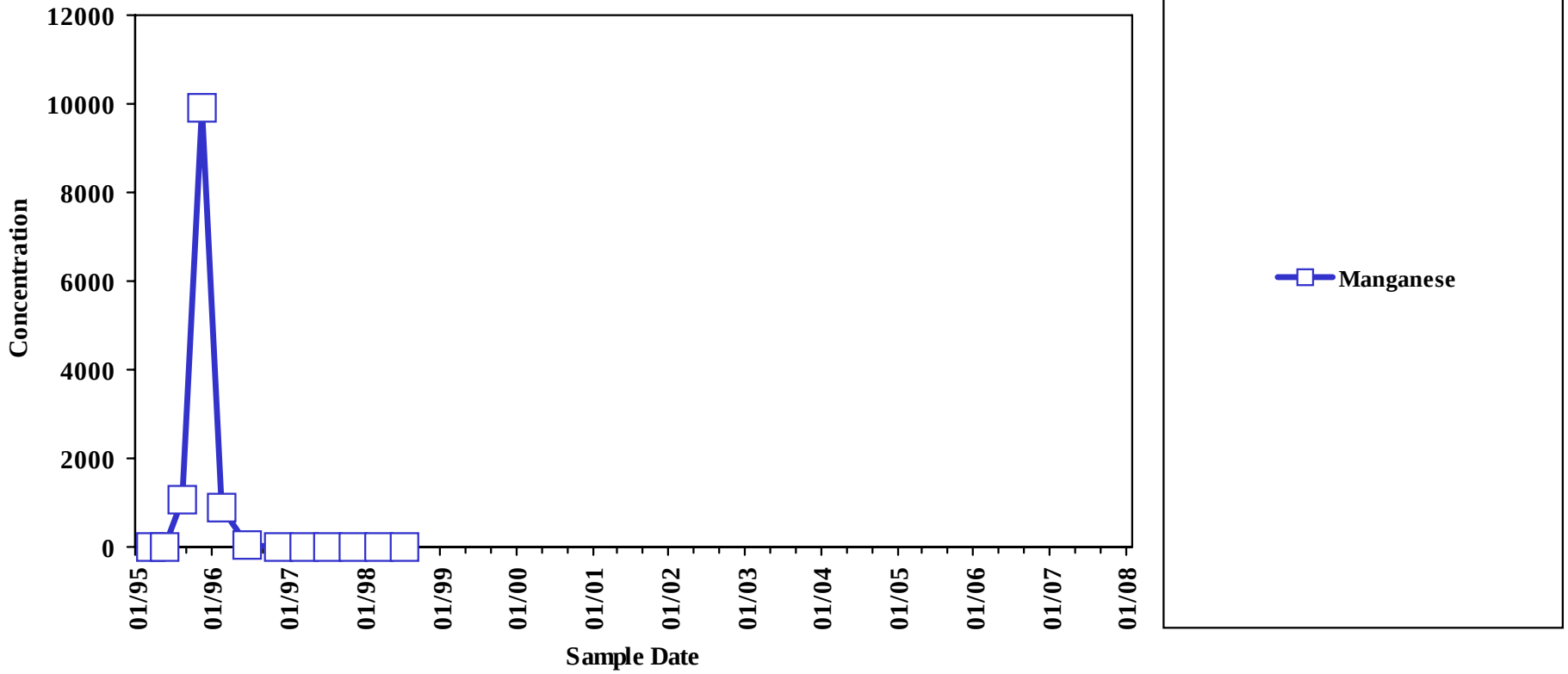
# MW-NASB-081

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| MEG | Manganese | MCL | Manganese |
|---|---|---|---|
| | 500 | | -- |

Sample Location:

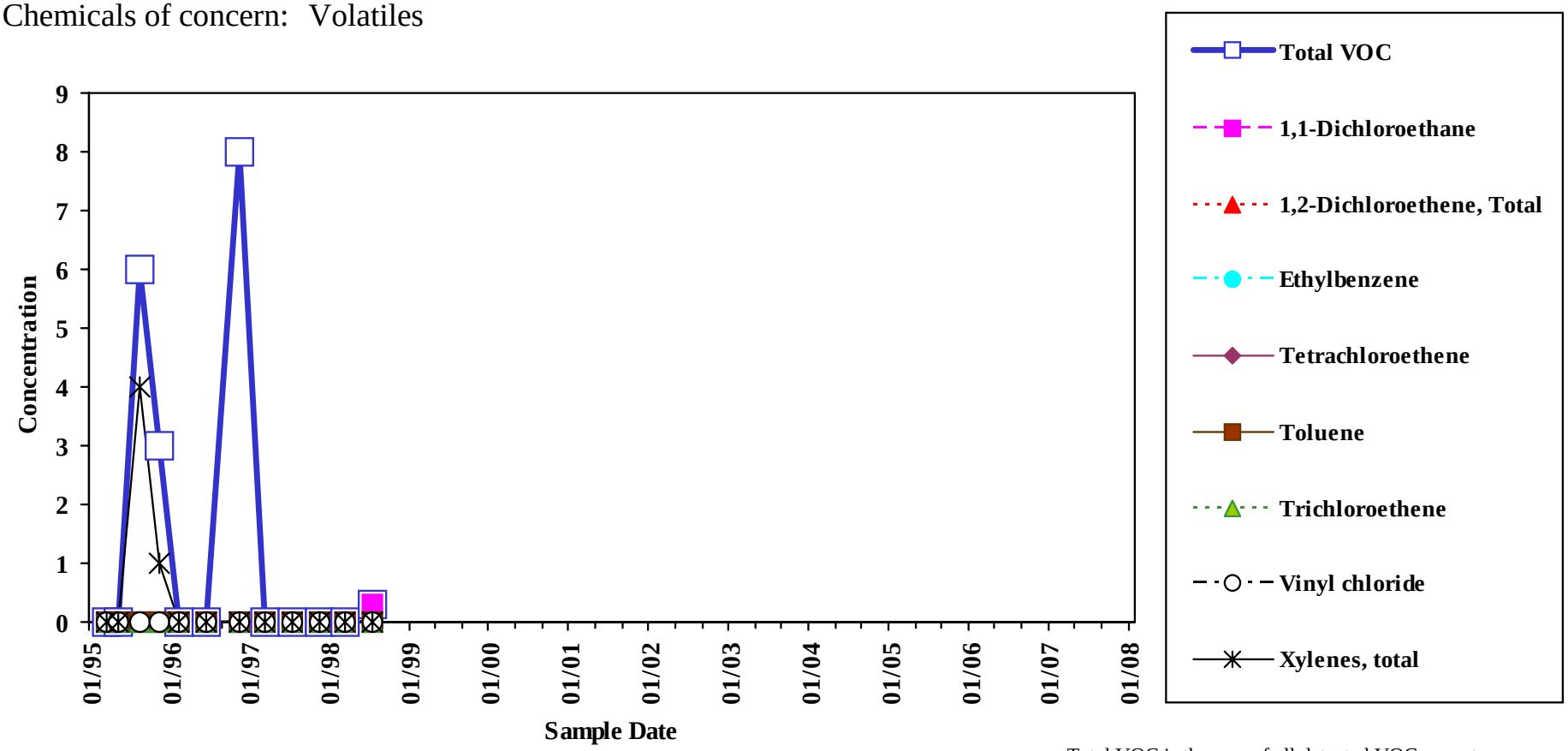
# MW-NASB-081

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

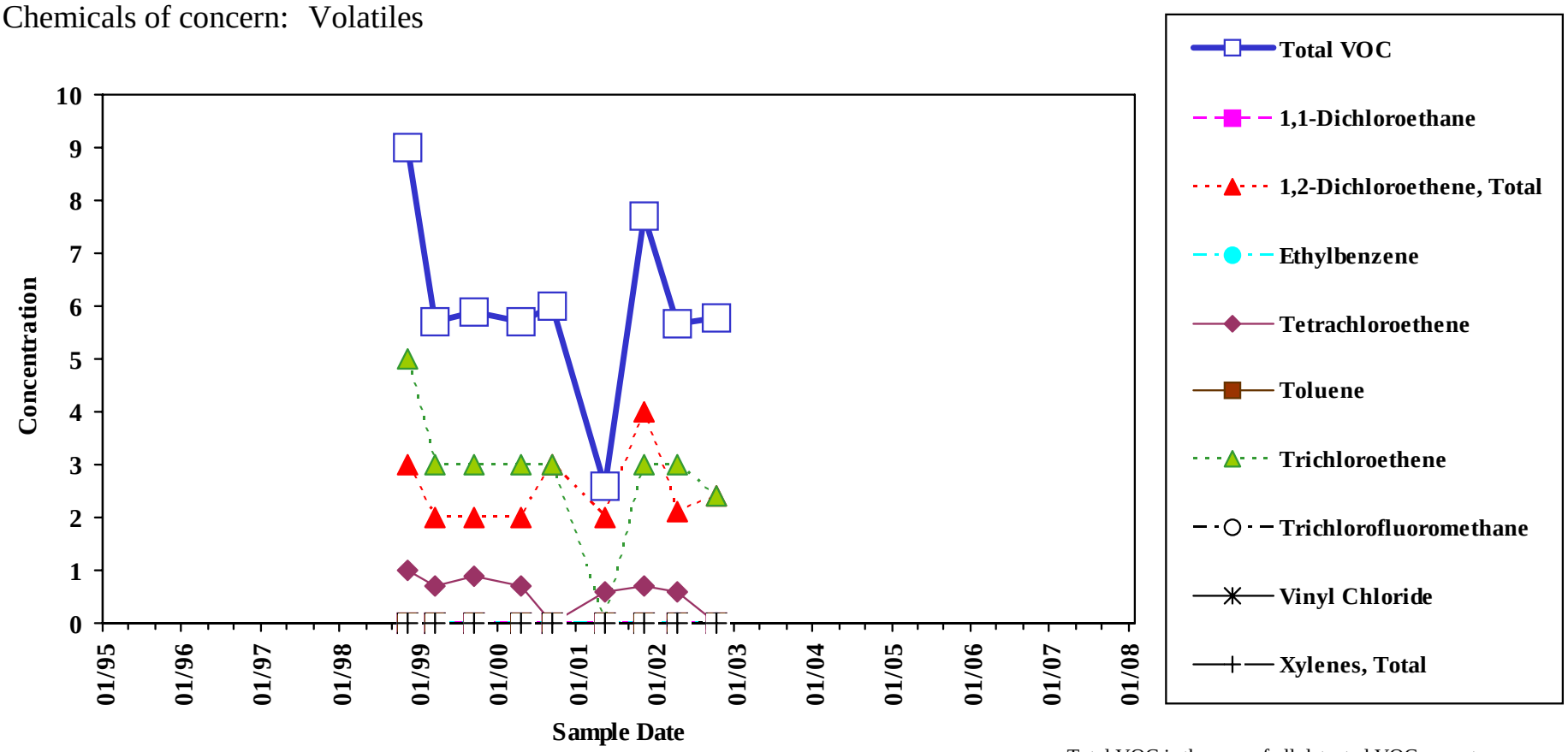
# MW-NASB-227

Low-flow Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

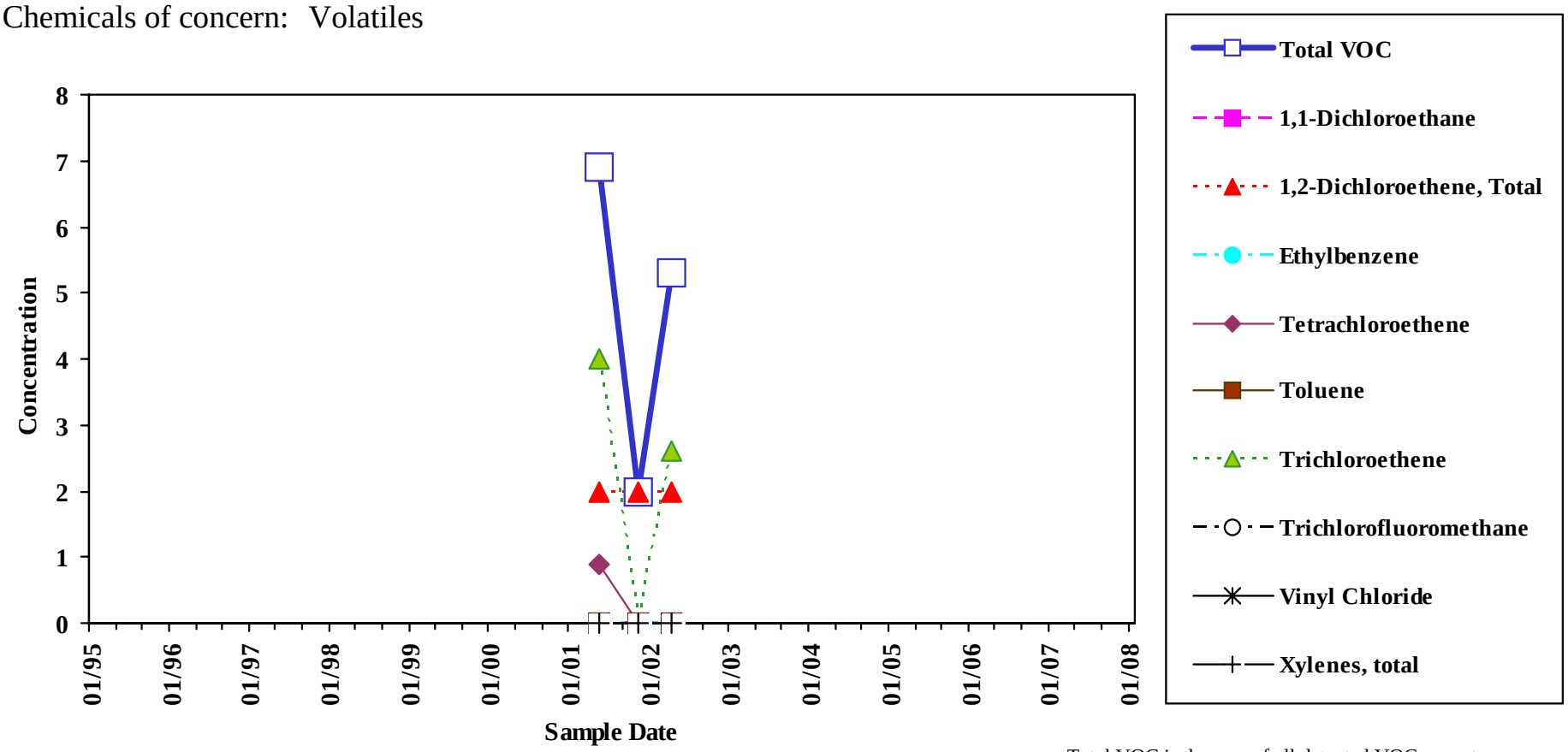
# MW-NASB-227

Shallow Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

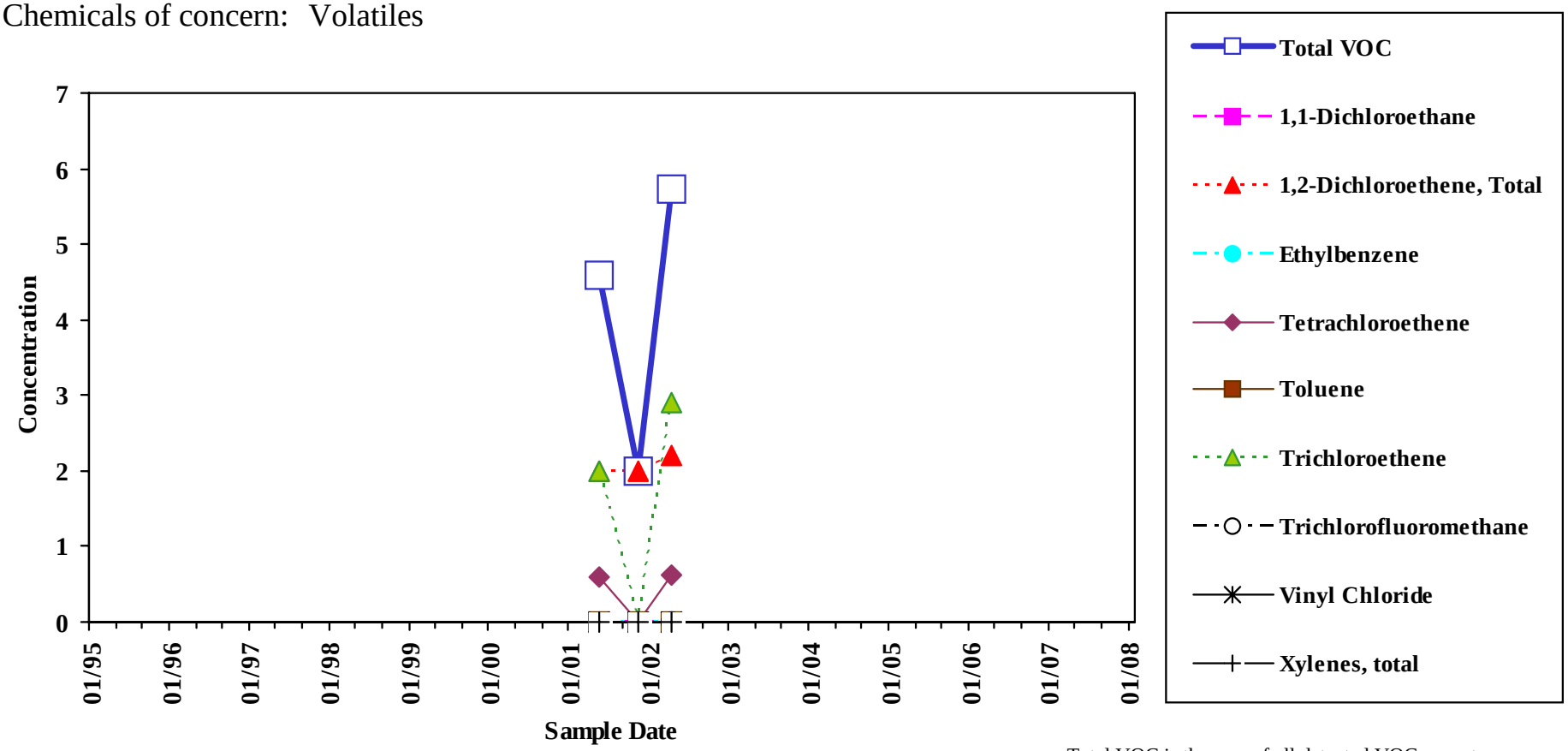
# MW-NASB-227

## Mid-depth Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

Sample Location:

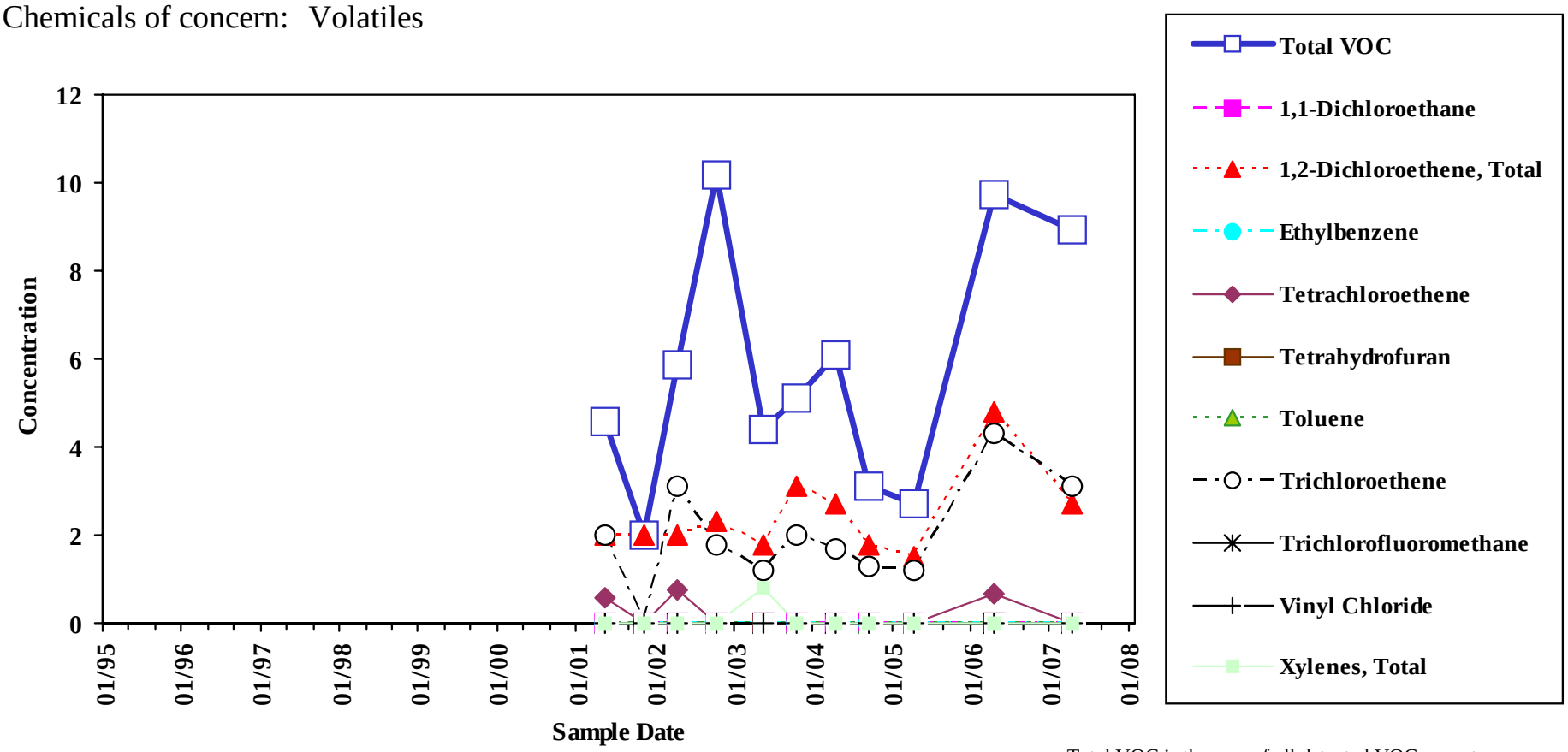
# MW-NASB-227

Deep Diffusion Sample

Site 9

Groundwater

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| **MEG** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|
| | 70 | 70 | 6 | 70 | 7 | 1,400 | 32 | 0.2 |
| Xylenes, Total | **MCL** | 1,1-Dichloroethane | 1,2-Dichloroethene, Total | Benzene | Ethylbenzene | Tetrachloroethene | Toluene | Trichloroethene |
| 1,400 | | -- | 70 | 5 | 700 | 5 | 1,000 | 5 |
| Vinyl Chloride | Xylenes, Total | | | | | | | |
| 2 | 10,000 | | | | | | | |

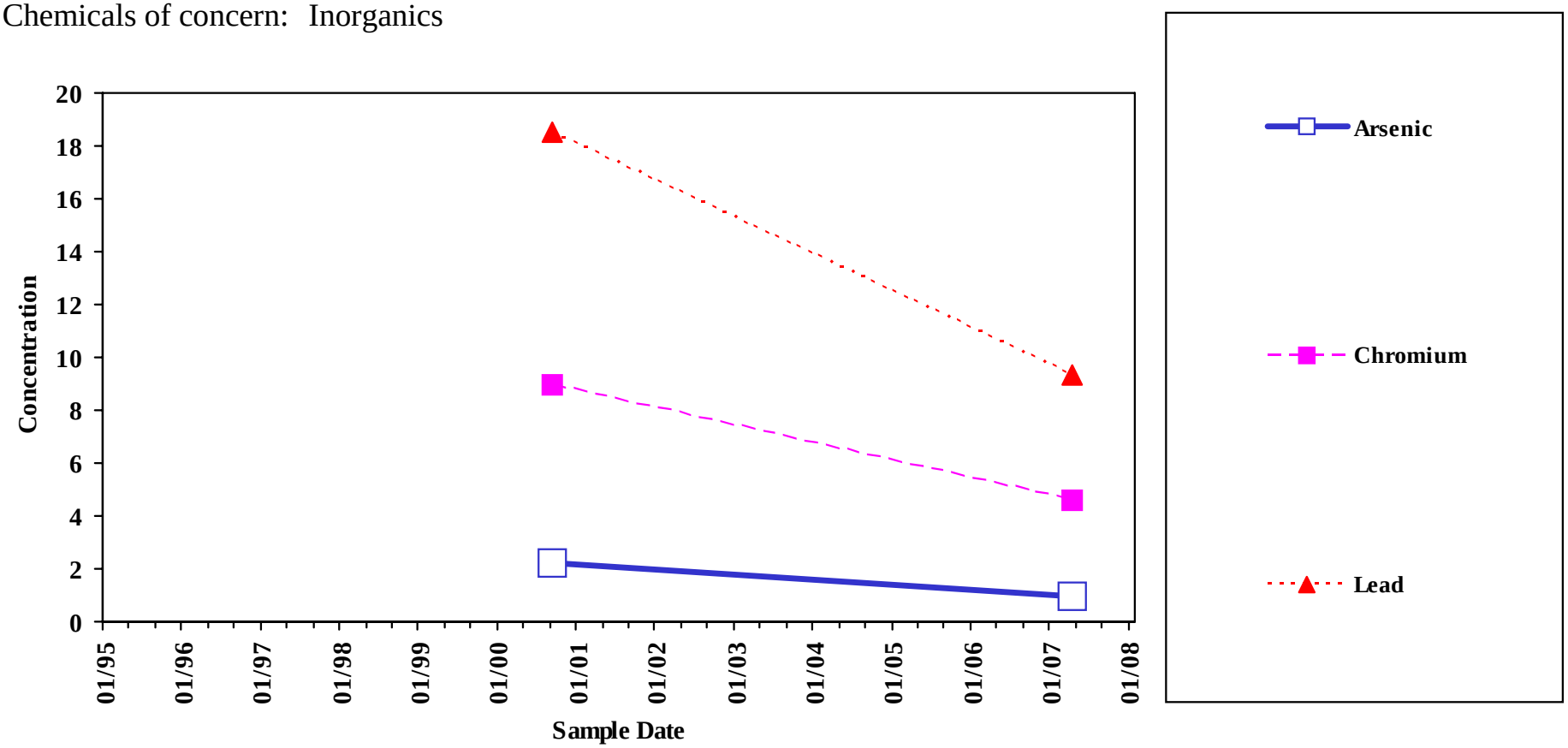
Sample Location:

# SED-10

Site 9

Sediment

Chemicals of concern: Inorganics




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: mg/Kg

| Screening Value | Arsenic | Chromium | Lead |
|---|---|---|---|
| | 9.8 | 43.4 | 35.8 |

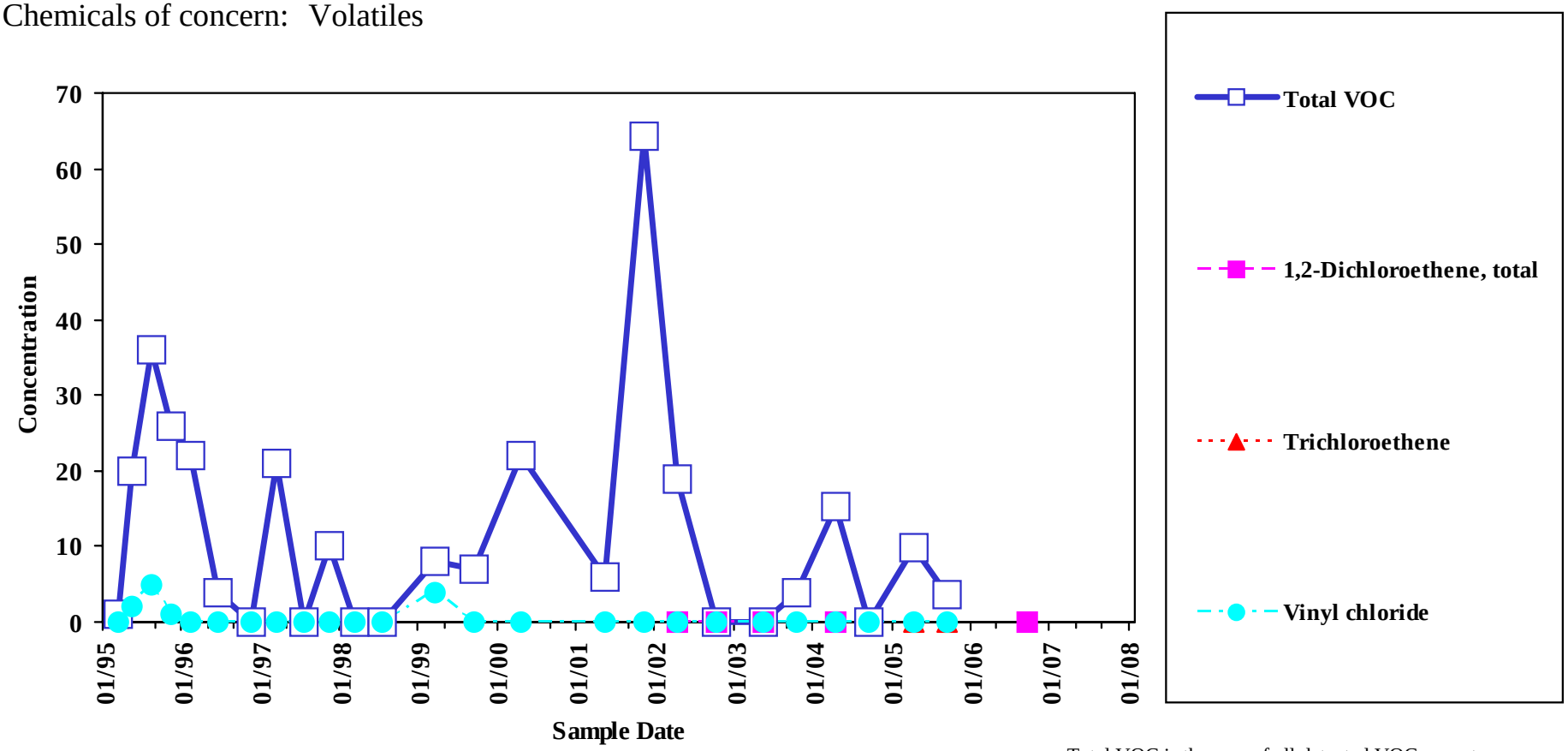
Sample Location:

# SED-10

Site 9

Sediment

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

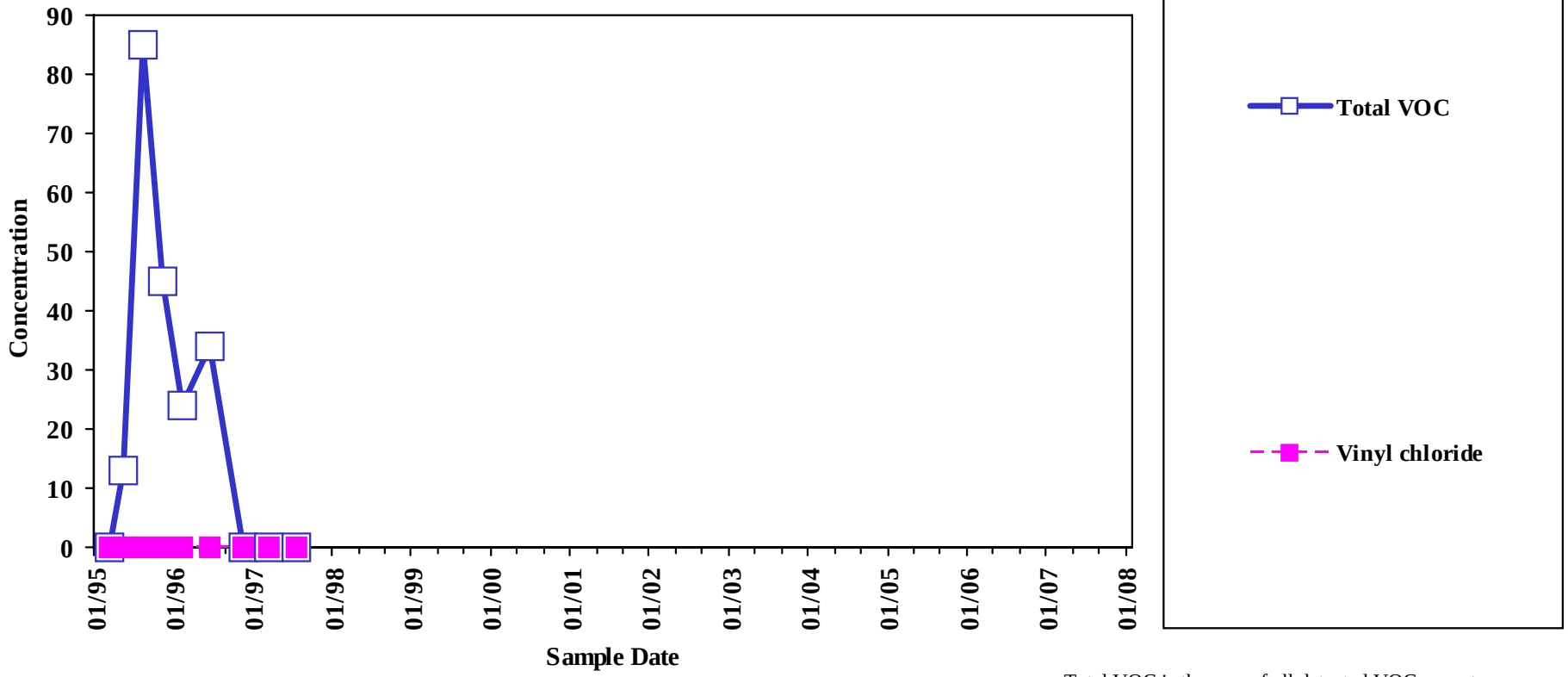
Sample Location:

# SED-11

Site 9

Sediment

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

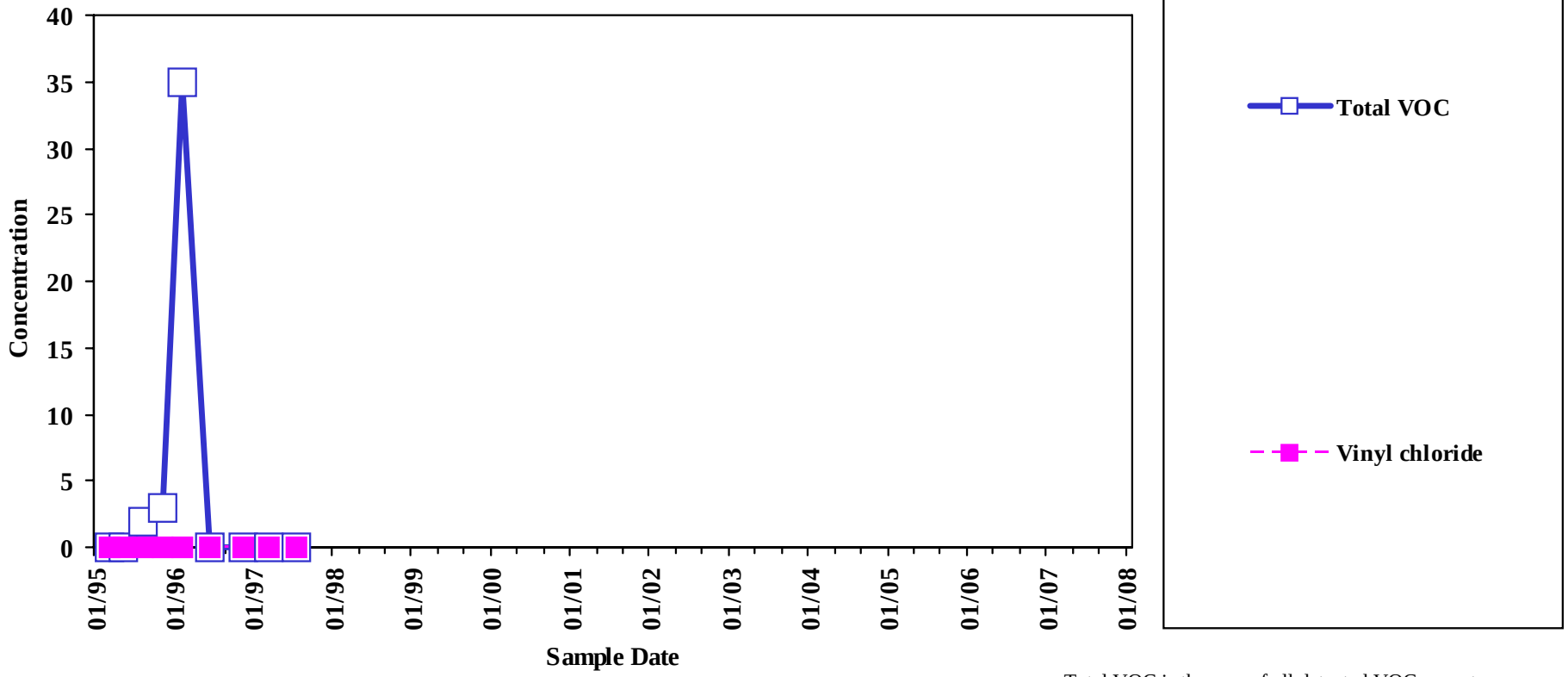
Sample Location:

# SED-12

Site 9

Sediment

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

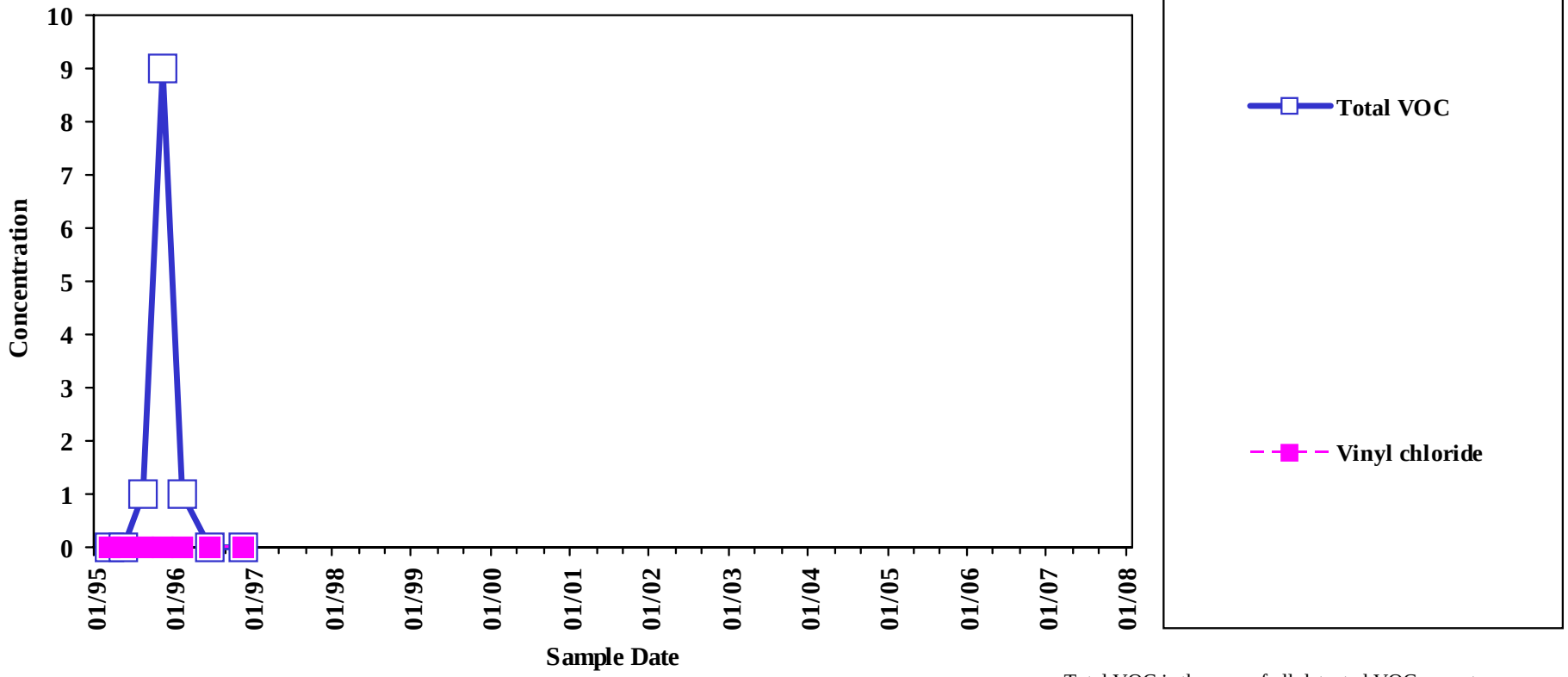
Sample Location:

# SED-915

Site 9

Sediment

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

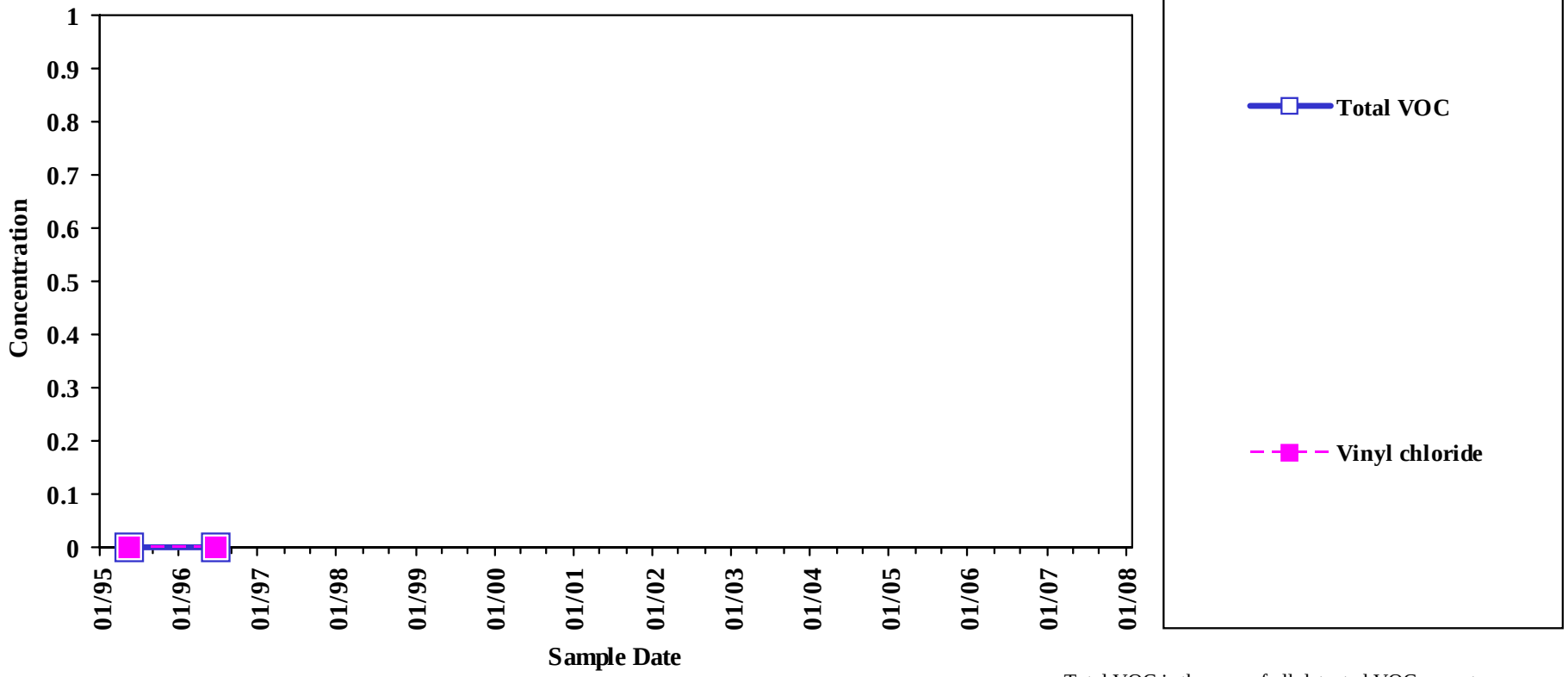
Sample Location:

# SED-916

Site 9

Sediment

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

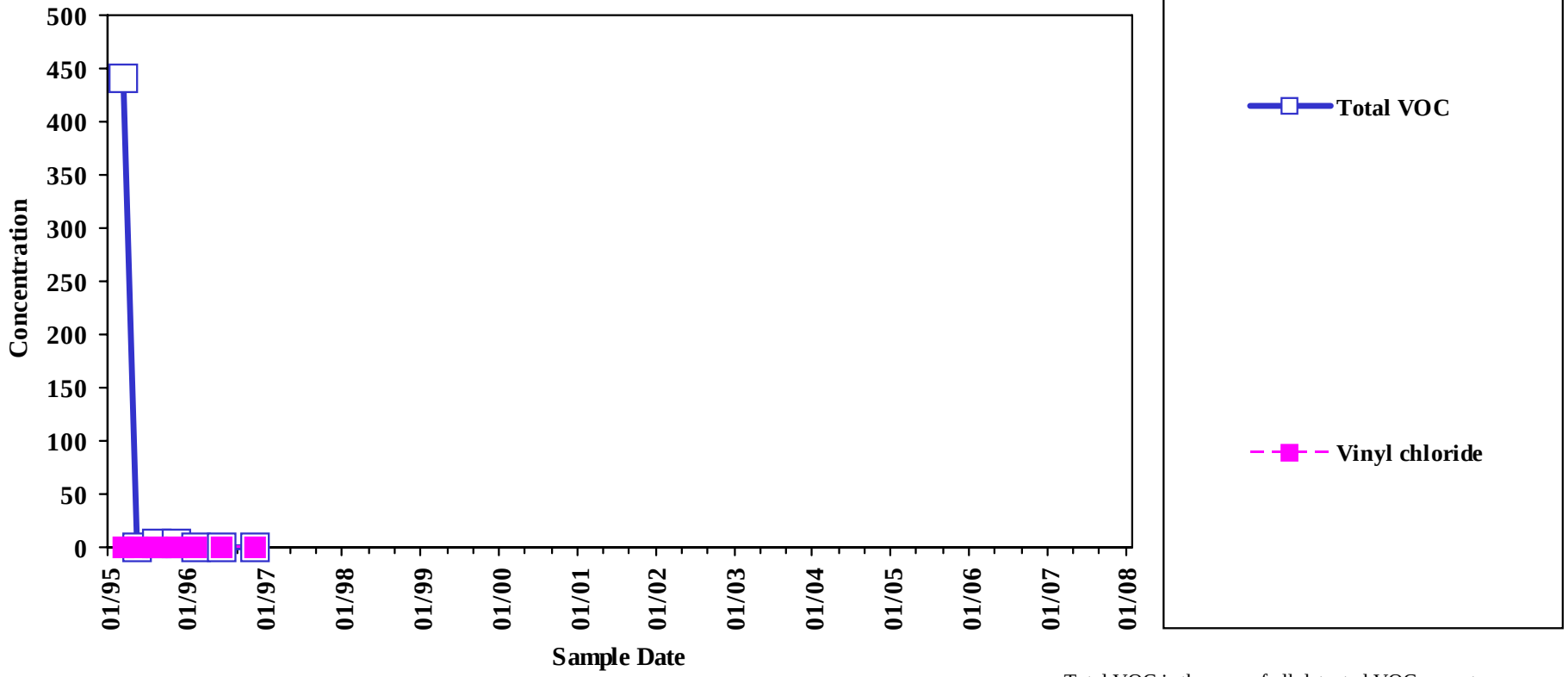
Sample Location:

# SED-919

Site 9

Sediment

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

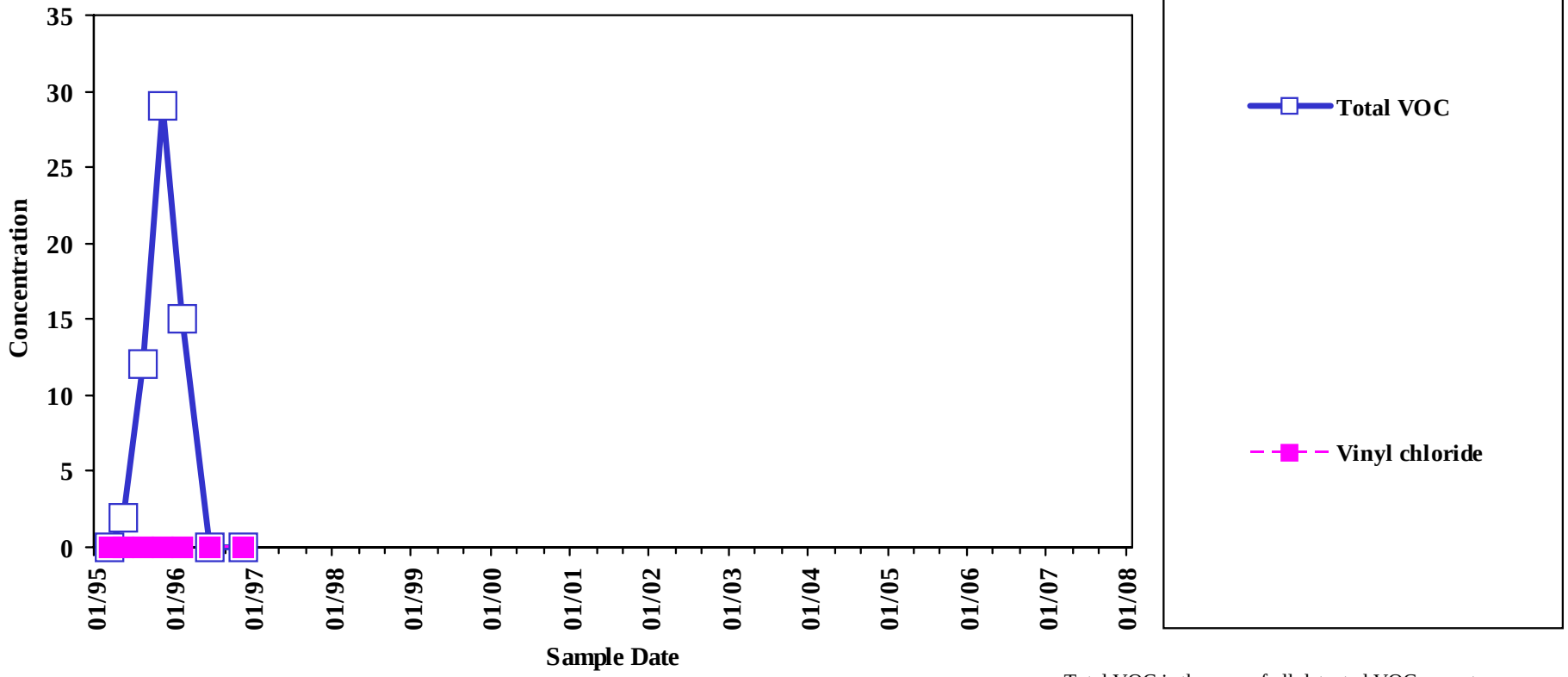
Sample Location:

# SED-922

Site 9

Sediment

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/Kg

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 1,400 | 0.016 |

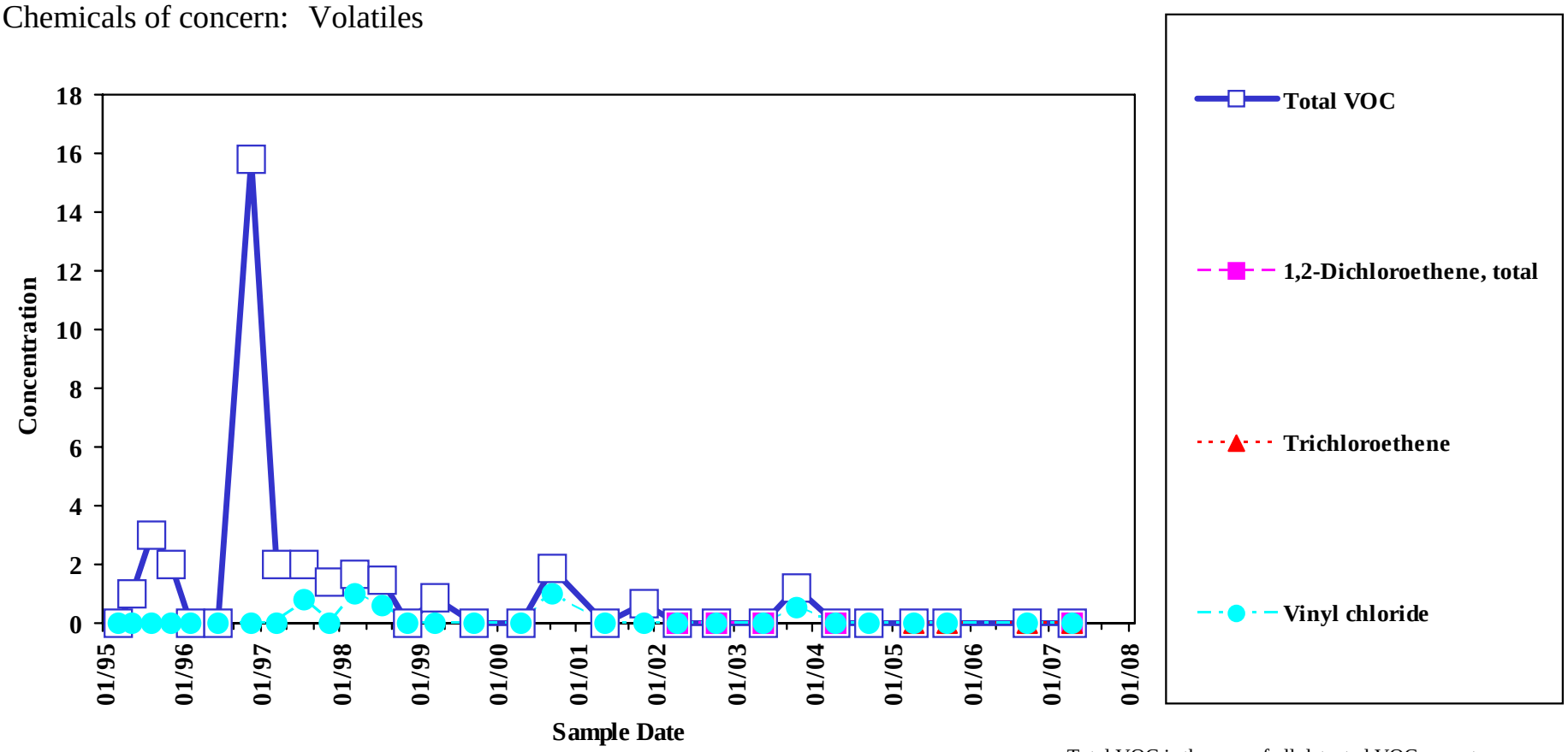
Sample Location:

# SW-010

Site 9

Surface water

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

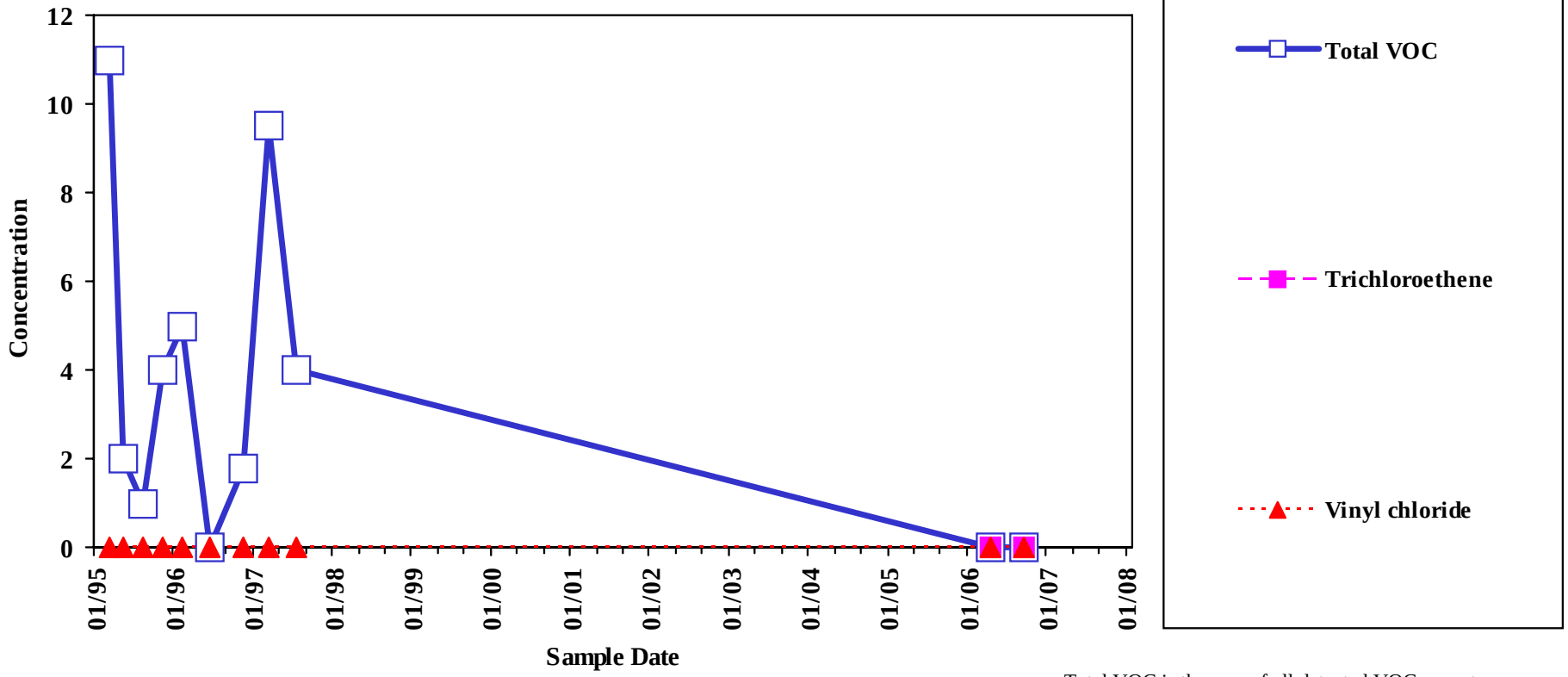
Sample Location:

**SW-011**

Site 9

Surface water

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

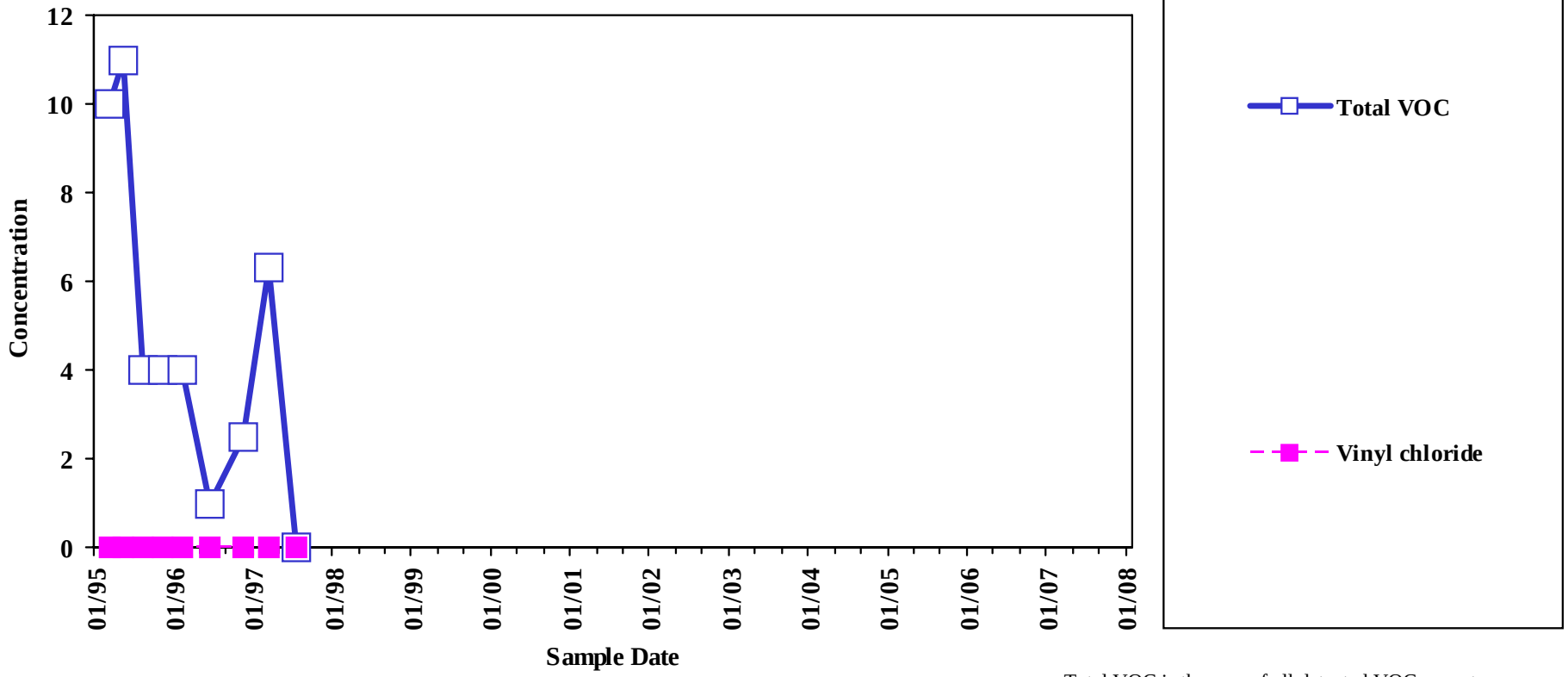
Sample Location:

# SW-012

Site 9

Surface water

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

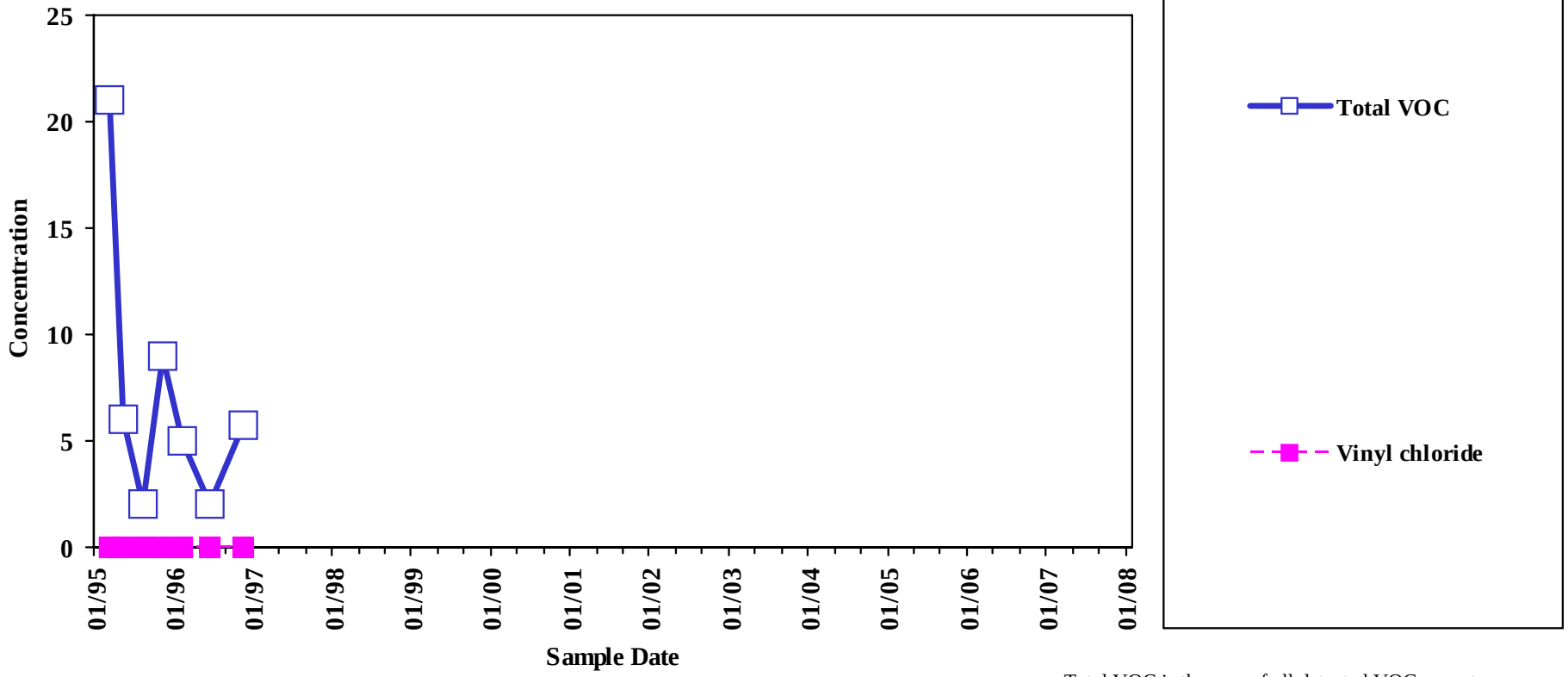
Sample Location:

# SW-915

Site 9

Surface water

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

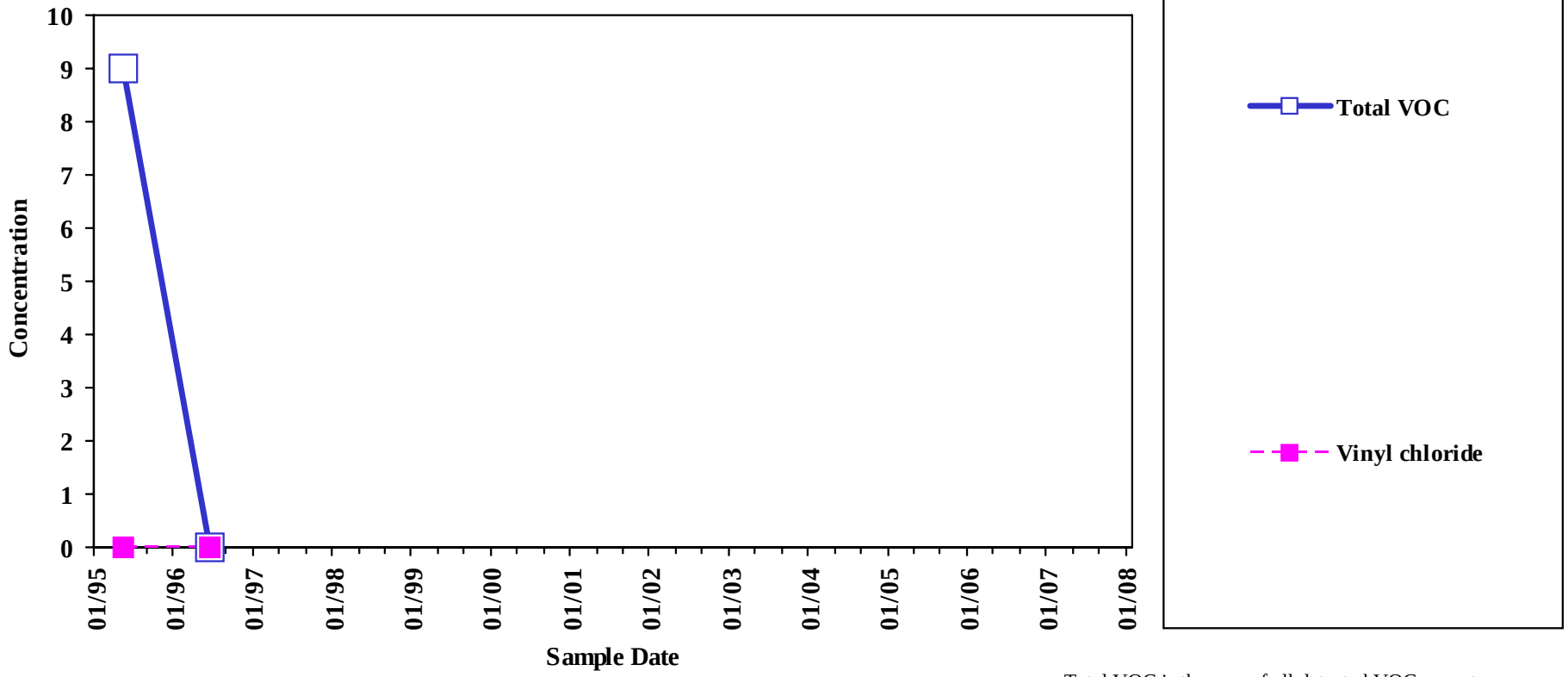
Sample Location:

# SW-916

Site 9

Surface water

Chemicals of concern: Volatiles




Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

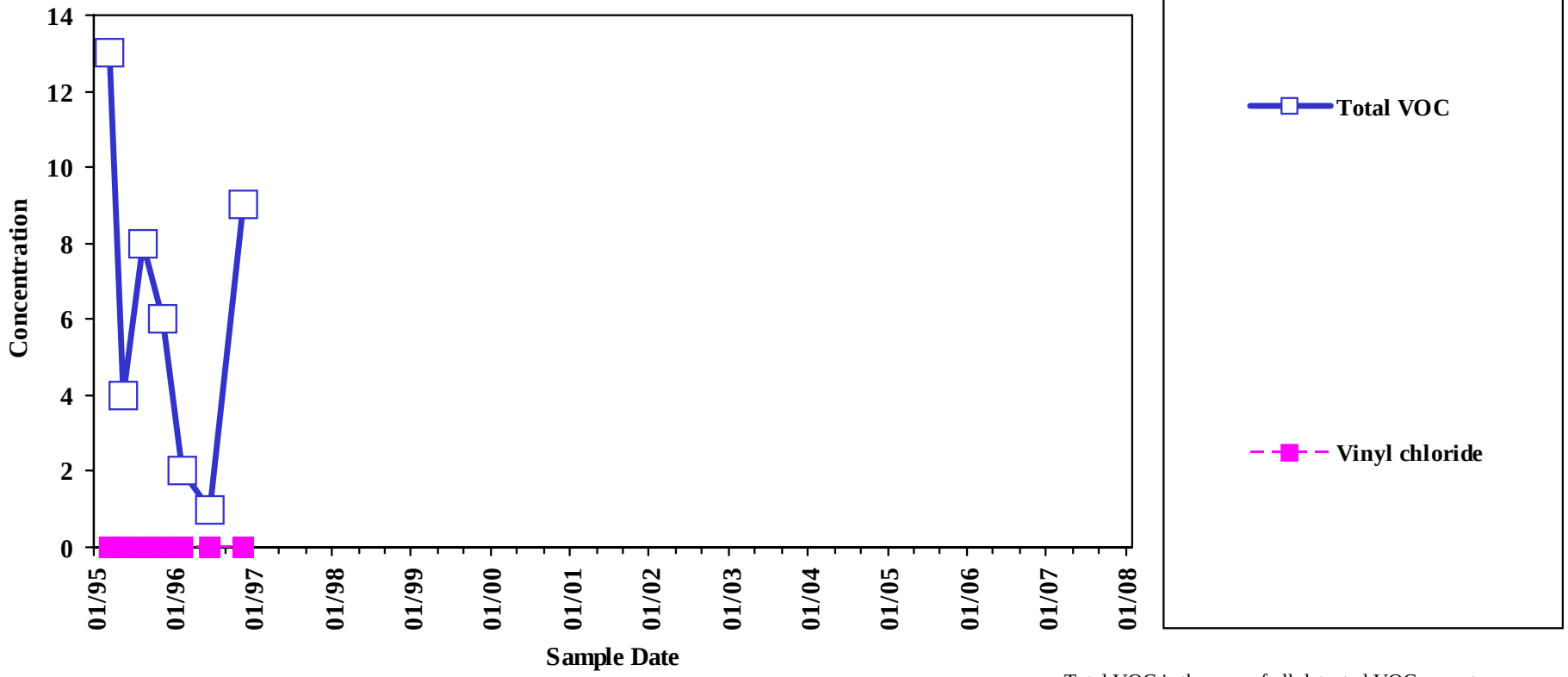
Sample Location:

# SW-919

Site 9

Surface water

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

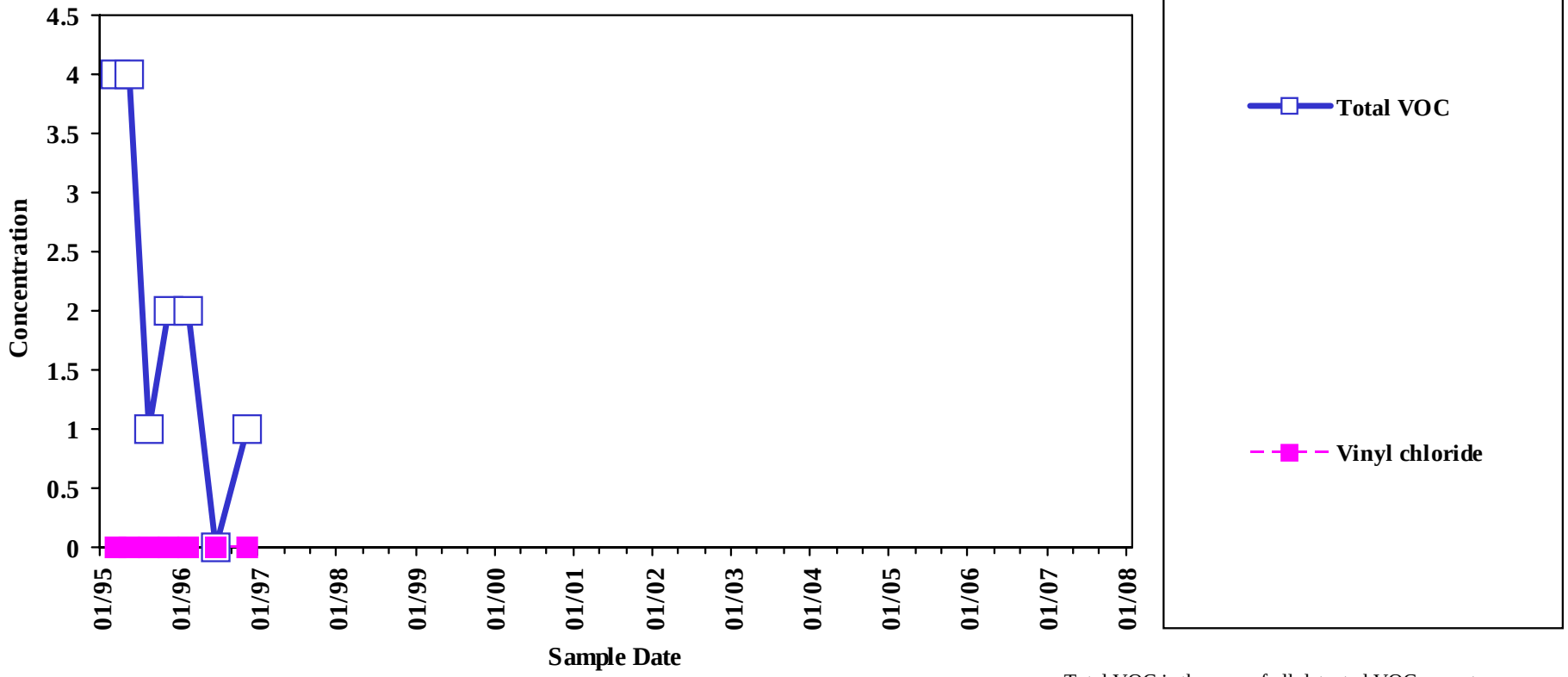
Sample Location:

# SW-922

Site 9

Surface water

Chemicals of concern: Volatiles




Analyte concentrations less than the sample detection limit are plotted as zero concentration on this chart.

Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

| Screening Value | 1,2-Dichloroethene, total | Trichloroethene | Vinyl Chloride |
|---|---|---|---|
| | -- | 47 | 0.069 |

# Appendix E

Response to Comments from the Regulators on the Draft Report

# Responses to Comments Provided by the State of Maine, Department of Environmental Protection Agency on Site 9 Monitoring Event 30 (April 2007) Draft Report, August 2007 Naval Air Station, Brunswick, Maine

Reviewer: Ms. Claudia Sait, MEDEP Project Manager
Date: January 2, 2008
Respondent: Navy
Date: July 30, 2008

| Comment # | Location | Comment | Response |
|---|---|---|---|
| 1 | General | Conclusions based on this monitoring event (ME) are limited by the lack of data for wells decommissioned due to the ash landfill excavation, and by data gaps identified in previous ME reports, specifically in the vicinity of MW-NASB-076 and in the southwest corner of the site. Efforts to close these gaps are completed or planned for the near future, and the ash landfill removal north of Neptune Drive should be completed in the upcoming year. Pending identification of ash south of Neptune Drive that may trigger additional soil removal, MEDEP expects the monitoring network will be re-established as soon as the ash removal and site restoration is complete, hopefully in 2008. | Thank you for your comment; The Navy is planning to install monitoring wells at Site 09 during Fall 2008. |
| 2 | General | The data collected are generally consistent with previous rounds, with low chlorinated VOC detections at MW-NASB-074 and MW-NASB-227 and DRO detected at MW-NASB-074 and MW-NASB-076 near the impoundment ponds at the southern end of the site. The DRO detections exceed the Maine Maximum Exposure Guideline (MEG) of 50 µg/L, but are less than 100 µg/L. No vinyl chloride was detected this round. The Analytical Data Quality Review indicates that overall the data were acceptable this round, and were qualified as needed. | Thank you for your comment; no change to the document is necessary. |

| Comment # | Location | Comment | Response |
|---|---|---|---|
| 3 | General | Based on the data from the ash landfill removal stakeholders should consider whether metals should be included in the Long Term Monitoring. | It is recommended that this topic be further discussed with the Project Stakeholders. The contaminants of concern at Site 9 are VOCs in groundwater and the need to include metals in the LTMP would need to be further warranted. |
| 4 | Section 1.0 | The Navy must note that four out of the twelve monitoring wells for this site have been decommissioned as part of the ash landfill removal and that this reduced monitoring limits the effectiveness of the long term monitoring, but these wells will be re-established once the removal is complete. | The following text will be added to Section 1.0 "Due to the recent soil removal action at Site 9, four wells (MW-NASB-069, MW-NASB-079, MW-NASB-080, and MW-NASB-021) were decommissioned and are no longer monitored. It is important to note, however, that the Navy's removal action has resulted in removal of the source of contamination and it is anticipated that groundwater quality will improve. Reinstallation of monitoring wells at site 09 during Fall 2008 should demonstrate the value of this removal action. |
| 5 | Section 1.2, Figure 1-3, and Table 1-1, 1-2 and 1-3 | a.) MEDEP appreciates the inclusion of the NEX wells in the gauging program. If possible MEDEP would appreciate if a figure could be included showing the water elevations across both the sites.<br><br>b.) Based on MEDEP's understanding of the excavation extent and from the ME-28 Table 1-1, MW-NASB-081 was decommissioned to make room for soil removal. The well is omitted from Table 1-1 this round, but it appears on Table 1-2 with the groundwater elevation data. It is possible the elevation data reported for MW-NASB -081 is actually from MW-NASB-020, please confirm and revise the tables and figure, as needed. | **a) Concur.** Figure 1-3 will be re-drawn to include the NEX wells and their water levels.<br><br>b) MW-NASB-081 was believed to be destroyed as of January 2008 (based on excavation reports). During a site visit to determine a proper response to this comment MW-NASB-081 was found still intact (see photo at end of comments). MW-NASB-020 was unable to be found, possibly covered with excavation soil. |
| 6 | Section 1.4 and 1.5 and Table 1-1 | a.) Please fill in the metals analyses category for the seep/surface water/sediment locations.<br><br>b.) Please revise to show that MW-NASB-022, MW-NASB-072 and MW-NASB-227 were sampled by aqueous diffusion sample (ADS) methods. | **Concur.** Table 1-1 will be edited as requested. |
| 7 | Section 1.7 | "*No apparent matrix bias for constituents…*"<br><br>This is a poorly constructed sentence and lacks a verb. Please revise. | **Concur.** This sentence will be changed to read "There were no apparent matrix biases for all analyzed constituents of concern." |

| Comment # | Location | Comment | Response |
|---|---|---|---|
| 8 | Section 2.2 and Tables 1-4 and 1-5, Appendix A | a.) Please note in Table 1-4 that MW-NASB-022, MW-NASB-072 and MW-NASB-227 were sampled by ADS only, not low-flow.<br><br>b.) It is notable that there is a very wide range of values for some field parameters. Temperature in groundwater ranges from 4.8 to 12.5 degrees C, and dissolved oxygen ranges from much less than 1 to greater than 16 mg/L. Calibration logs indicate nothing notable, and the variable readings are not traceable to different sample methods (low-flow or aqueous diffusion sample ADS). The field notes do indicate snow was falling during at least a portion of the sampling, it is possible the meters or flow-through cell were affected by the precipitation. Readings were generally similar between wells in the previous round. | **a) Concur.** The statement that MW-NASB-022, MW-NASB-072 and MW-NASB-227 were sampled by ADS only, not low-flow will be added to the Notes section of Table 1-4.<br><br>**b)** Thank you for your comment; no change to the document is necessary. |
| 9 | Section 2.3.1, Σ1,2 dichloroethene (DCE) and Σvinyl chloride graphic | a.) Please revise the figure to include trichloroethene (TCE) data and add a notation to the text and figure indicating when MW-NASB-069 was removed. Since MW-NASB-069 was the well with vinyl chloride concentrations far above any other well, it is disingenuous to indicate a trend when the wells sampled are changing through time.<br><br>b.) The detection of vinyl chloride at MW-NASB-076 (January 2006, 1.2 µg/L) is missing from the figure, please revise.<br><br>c.) As noted in MEDEP's ME29 comments, this figure would be improved by looking at individual locations and additional VOCs such as TCE. | **a) Concur.** The figure will be edited as requested. Only the results from monitoring wells MW-NASB-022, MW-NASB-069, MW-NASB-071, MW-NASB-072, MW-NASB-074, MW-NASB-075, MW-NASB-076, and MW-NASB-227 will be used in the total concentration calculations for this figure as these are the wells that have been consistently sampled during each monitoring event since 1995. It will be noted on the graph when MW-NASB-022 and MW-NASB-227 were added to the monitoring program in 1998, and when MW-NASB-069 was decommissioned.<br><br>b) This detection will be included in the calculations for this figure.<br><br>c) Figure 2-1 will be changed to display graphs of 1,2-DCE, TCE, and vinyl chloride for each of the wells mentioned above. The text boxes displaying vinyl chloride results will be removed. These changes will better display detections at the site throughout the site's monitoring history. |

| Comment # | Location | Comment | Response |
|---|---|---|---|
| | | d.) Para 3; "The current active wells have non-detect results for vinyl chloride."<br><br>While this may be true, it should also be noted that 8260B SIM is not being used to gain the lowest detection limit which still is not low enough to meet the Maine Maximum Exposure Guideline of 0.15 µg/L. Therefore please cite the detection limit being used. | d) **Concur.** The vinyl chloride detection limit will be stated in the text. |
| 10 | Section 2.3.1, well chemical summaries | Please revise the text for the DRO detections. Please put the units in mg/L, so the values for MW-NASB-074 and MW-NASB-076 are easily discerned to be over the MEG. | **Concur.** The DRO results will be converted to units of mg/L. |
| 11 | Section 3.1 | a.) The report must clearly indicate that due to the number of wells decommissioned as part of the ash landfill removal action that the effectiveness of the long term monitoring is limited until such time as the monitoring network can be re-established.<br><br>b.) The objectives as written do not follow the Record of Decision goals which are reiterated in the current Long Term Monitoring Plan (October 2005). The objectives must closely mimic the goals in these documents. Please revise in this report and all future ME reports. | a) The following sentence will be added to Section 3.1: "It should be noted that, due to the number of wells decommissioned as part of the ash landfill removal action, the effectiveness of long term monitoring cannot be fully evaluated until the monitoring network can be re-established." It is important to note, however, that the Navy's removal action has resulted in removal of the source of contamination and it is anticipated that groundwater quality will improve. Reinstallation of monitoring wells at site 09 during Fall 2008 should demonstrate the value of this removal action.<br><br>b) Section 3.1 will be rewritten to more closely follow the goals of the Record of Decision, which were re-iterated in the current LTMP. |
| 12 | Section 3.1, Bullets 1 and 2 | MEDEP can not fully agree these objectives are completely met at present based on the potential pathways near MW-NASB-076 and near S9-B10 leaving data gaps. These potential data gaps are noteworthy, and MEDEP expects they will be rectified shortly. | Thank you for your comment; no change to the document is necessary. |

| Comment # | Location | Comment | Response |
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| 13 | Section 3.1, Bullet 4 | MEDEP anticipates the ongoing ash and soil removal will greatly enhance the attenuation of the vinyl chloride migrating across the central part of the site. As noted, the direct push investigation and the new screen at depth near MW-NASB-076 will provide data to support this evaluation. | Thank you for your comment; no change to the document is necessary. |
| 14 | Section 3.1, Bullet 5 | The data for Site 9 indicate that screening criteria are exceeded for several metals in surface water, sediment and seeps associated with the site. This is the case at several other sites at NASB, and stakeholders will eventually need to discuss whether these sorts of exceedences require additional corrective measures, or if the background study indicates it is typical groundwater to surface water discharge chemistry. | Thank you for your comment; no change to the document is necessary. |
| 15 | Section 3.2, Bullet 1 | MEDEP agrees with the conclusion with the additional possibility that the pending Site 9 investigation may generate data that indicates other revisions to the monitoring are needed. | Thank you for your comment. The following statement will be added: "The pending Site 9 investigation may generate data that indicate other revisions to the long-term monitoring are needed." |
| 16 | Section 3.2, Bullet 2 | The statement must be revised to reflect that the soil and ash removal to date has been north of Neptune Drive. | **Concur.** This Bullet 2 will be corrected as requested. |
| 17 | Table 2-1 and Appendix B | The reporting limit for diesel-range organics for sample MW-NASB-075 (0.08 mg/L) exceeds the Maine MEG of 0.05 mg/L, although the detection limit is listed in the appendix as 0.05 mg/L.<br><br>This value contradicts the electronic data deliverable that reported 0.04 mg/L as the reporting limit. Please confirm the detection limits and reporting was for these analysis and revise the table as needed. | **Concur.** The MDL for DRO is 0.05 mg/L which is equal to the Maine MEG for DRO. In this report, non-detects are reported to the RL which is 0.08 mg/L.<br><br>The Navy does not agree that the EDD reported the MDL as 0.04 mg/L. The EDDs for this monitoring event agree with the numbers listed above for the MDL and RL. |
| 18 | Table 2-1 | The total VOC (TVOC) value for wells with detections of <u>cis</u> 1,2 dichloroethene is incorrect, because the table also lists <u>total</u> 1,2 dichloroethene. As a result the detection is "double-counted" in the TVOC calculation. This also affects the trend graphs for those wells. Please revise the table and figures. | **Concur.** The total VOCs will be recalculated and Table 2-1 and Appendix D will be corrected accordingly.<br>MW-NASB-074 - TVOC=3.0 ug/L<br>MW-NASB-227 - TVOC=6.23 ug/L |
| 19 | Appendix A and Table 1-2 | The field notes indicate a reading was taken at both staff gauges, however table 1-2 only lists a depth to water for SG-1C. Also the depth to water in the same table does not match the field notation for SG-1C. Please explain and revise the table and text, as needed. | Staff gauge SG-1C was measured on April 3, 2007. Staff gauge SG-2 was damaged and could not be gauged. Staff gauge SG-2 was replaced on April 25, 2007, and the water levels at SG-1C and SG-2 were measured on that same date. SG-2 was not surveyed, so the water elevation above MSL could not be calculated. All staff gauge measurements will be included on Table 1-2. |

| Comment # | Location | Comment | Response |
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| 20 | Appendix D | The trend graphs are improved with the new format, but where applicable for all wells trans 1,2 DCE should be dropped from the graphs and total 1,2 DCE added. MEDEP made similar comments on the ME29 report. Trichlorofluoromethane should be added to the graphs for MW-NASB-075 and MW-NASB-072, to clarify the total VOC values plotted. The graphs for MW-NASB-022 and MW-NASB-227 need to be corrected to show the data were collected by ADS not low-flow. | **Concur.** The suggested changes to the trend graphs will be made. |
| **END OF COMMENTS** | | | |

Looking south at MW-NASB-081 on the perimeter of removal action activity area.