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Monitoring Event 22 Report – April/May 2003 for Site 9: Neptune Drive Disposal Site Naval Air Station, Brunswick, Maine

Contract No. N62472-92-D-1296
Contract Task Order No. 0047

Prepared for

Department of the Navy
Engineering Field Activity Northeast
Naval Facilities Engineering Command
North Loop & American Way, Building G
Code 182
Lester, Pennsylvania 19113-2090

Prepared by

EA Engineering, Science, and Technology, Inc.
Southborough Technology Park
333 Turnpike Road, Route 9
Southborough, Massachusetts 01772

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29 October 2004

Alexander C. Easterday, P.G.
CTO Manager

Date

29 October 2004

Kenneth W. Kilmer
Program Manager

Date

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QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296
Contract Task Order No. 0047
Activity: Naval Air Station, Brunswick, Maine

EA Project No.: 29600.47

Description of Report/Deliverable:

Final Monitoring Event 22 Report – April/May 2003 for Site 9, Naval Air Station, Brunswick, Maine

EA CTO Manager: Alexander C. Easterday, P.G.

In compliance with EA's Quality Procedures for review of deliverables outlined in the Quality Management Plan, this final deliverable has been reviewed for quality by the undersigned Senior Technical Reviewer(s). The information presented in this report/deliverable has been prepared in accordance with the approved Implementation Plan for the Contract Task Order (CTO) and reflects a proper presentation of the data and/or the conclusions drawn and/or the analyses or design completed during the conduct of the work. This statement is based upon the standards identified in the CTO and/or the standard of care existing at the time of preparation.

Senior Technical Reviewer

Peter Nimmer

29 October 2004

Peter Nimmer, P.G.
Senior Geologist

(Date)

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project No.: 29600.47
Contract Task Order No. 47
Activity: Naval Air Station, Brunswick, Maine

Description of Report/Deliverable:

Final Monitoring Event 22 Report – April/May 2003 for Site 9, Naval Air Station, Brunswick, Maine

EA CTO 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.

Certified Geologist Reviewer

STATE OF MAINE
GINA M. CALDERONE
No. GE442
CERTIFIED GEOLOGIST

Gina M. Calderone

Gina M. Calderone, CPG
State of Maine Certified Geologist (No. GE442)

29 October 2004
(Date)

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1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order No. 0047, Engineering Field Activity Northeast, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology, Inc. to perform long-term monitoring at the Neptune Drive Disposal Site (Site 9), Naval Air Station (NAS), Brunswick, Maine. NAS Brunswick is located south of the Androscoggin River between Brunswick and Cooks Corner, Maine (Figure 1). The layout of Site 9 is provided on Figure 2.

At Site 9, the Navy is providing monitoring and maintenance as part of the long-term remedial actions required by the Final Record of Decision for Site 9 (EA 1999a). Monitoring Event 22 was completed in accordance with the Final Long-Term Monitoring Plan (EA 1999b).

This report provides results for Monitoring Event 22, which occurred in May 2003. By agreement between the Navy and state and federal regulators, this monitoring event report includes previous annual report formatting (annual reports will no longer be prepared). Monitoring event reports also present and discuss trend data, and provide recommendations and conclusions. Section 1 describes the activities completed during this monitoring event. Temporal trends and other observations based on data collected during bi-annual monitoring are presented in Section 2. Recommendations are provided in Section 3. Appendix A contains response to comments from the Maine Department of Environmental Protection and U.S. Environmental Protection Agency (EPA). Appendix B contains the laboratory analytical data summary (Tables B-1 through B-7). Appendix C provides temporal trend graphs. Appendix D provides an analytical data quality review. Appendix E provides field monitoring and sampling forms. Appendix F provides the engineering inspection report for Site 9. Appendix G provides analytical report Form I data tables.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Gauging Activities

Water level measurements for Monitoring Event 22 were collected on 28 April 2003 at 17 monitoring wells and 2 stream gauge stations as indicated in Table 1 and shown on Table 2. The locations of site monitoring wells and gauging stations are provided on Figure 2. To collect data related to upgradient groundwater flow patterns, depth to groundwater was measured (gauged) in the monitoring wells at the Navy Exchange Service Station on 28 April 2003 (Table 3). The gauging procedures are detailed in the final report for Monitoring Event 4 (EA 1996).

1.2.2 Results

Water levels recorded for the May 2003 event were higher than water levels recorded in the September 2002 event due to normal increases in spring precipitation. Water level gauging data recorded at the Navy Exchange Service Station on 9 September 2002 are provided in Table 3. Field Record of Well Gauging forms completed during the well gauging events are provided in Appendix E. Figure 3 provides the groundwater potentiometric surface elevations and flow directions for Site 9 based on the 28 April 2003 gauging data.

1.3 GROUNDWATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Sampling Activities

The groundwater sampling program was completed on 8 May 2003 in accordance with the general methodologies established in the final Long-Term Monitoring Plan (EA 1999b), with the exception of the aqueous diffusion samples. These samples were collected as described in previous phases of the Brunswick pilot study (EA2001a) and the draft Diffusion Sampler Proposal (EA 2003). Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for low-flow sample collection at Site 9.

A diffusion sampler pilot study has been conducted at the 9 monitoring wells which are sampled for Target Compound List volatile organic compounds (VOCs) to assess whether aqueous diffusion samplers can be used effectively as an alternative to the low-flow sampling method at Site 9. On 12 March 2003, the draft Diffusion Sampler Proposal (EA 2003) was submitted to stakeholders. This document provides justification that aqueous diffusion samplers can be used effectively as an alternative to the low-flow sampling method. Low-flow sampling will be no longer required for the collection of VOCs at these monitoring wells. (Low-flow sampling will still be required for collection of semivolatile organic compounds and Target Analyte List elements as required by the Long-Term Monitoring Plan [EA 1999b]). This proposal contained specific information on the location and placement of each aqueous diffusion sampler in individual monitoring wells as discussed and agreed upon by site stakeholders in the October 2002 Technical Meeting.

On 23 April 2003, diffusion samplers were placed in 10 monitoring wells at specific depths across the length of the well screen (as specified in the 12 March 2003 draft Diffusion Sampler Proposal [EA 2003]). Nine of 10 wells had 1 sampler placed at the deep interval of its well screen. Two samplers were installed within monitoring well MW-NASB-069 at the shallow and deep interval. The diffusion samplers were retrieved on 8 May 2003, after being allowed to equilibrate in each well for 15 days. As required by the Long-Term Monitoring Plan (EA 1999b), low-flow groundwater sampling was conducted at 3 monitoring wells (MW-NASB-069, MW-NASB-070, and MA-NASB-079) immediately following retrieval of the aqueous diffusion samplers. Low-flow samples were collected where semivolatile organic compounds or Target

Analyte List elements sampling is required (MW-NASB-069) and/or where aqueous diffusion samplers are not deployed (MW-NASB-070 and MW-NASB-079).

Groundwater samples were collected from the 12 required wells at Site 9 during Monitoring Event 22 using the low-flow sampling technique and/or diffusion sampling method. Table 1 provides a summary of the wells that were sampled during Monitoring Event 22. Note that samples were not scheduled to be collected from monitoring wells MW-NASB-073, MW-NASB-077, MW-NASB-078, MW-NASB-081, and MW-NASB–204 as per the current Long-Term Monitoring Plan for Site 9. Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and oxidation-reduction potential (Eh), were measured immediately following removal of the diffusion samplers. A YSI 600XL water quality meter was utilized to collect water quality data downhole (note that the YSI 600XL water quality meter does not record turbidity). Water quality indicator data are presented in Table 4. Field Record of Well Gauging, Purging, and Sampling forms are provided in Appendix E.

Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were measured during well purging using a YSI 6820 water quality meter and a flow-through cell. Eh, although not required by the most recent Long-Term Monitoring Plan was recorded for informational purposes. Stabilization of water quality indicator parameters was considered achieved when measurements agreed to within approximately 10 percent on 3 successive readings, and turbidity was below the goal of 10 nephelometric turbidity units. Wells were purged at the lowest flow rate obtainable with the submersible pump (between 0.1 and 0.2 L/minute). Water quality stabilization criteria were achieved in all Site 9 monitoring wells prior to sampling. Water quality parameters are summarized in Table 4 for the groundwater samples. Field Record of Well Gauging, Purging, and Sampling forms are provided in Appendix E.

Groundwater samples collected during this monitoring event were analyzed by AMRO Environmental Laboratories Corporation, a State of Maine Department of Human Services certified laboratory, located in Merrimack, New Hampshire (Certification No. NH012).

Groundwater samples were analyzed for the following:

- Target Compound List VOCs by EPA Method 8260B.

Groundwater samples collected from monitoring wells MW-NASB-069, MW-NASB-070, and MW-NASB-079 were also analyzed for the following:

- Semivolatile organic compounds by EPA Method 8270C
- Target Analyte List elements, including metals by inductively coupled plasma by EPA Method 6010, graphite furnace by EPA Method 7000 Series, and mercury by cold vapor atomic absorption by EPA Method 7470A.

1.3.2 Analytical Data

Tables B-1, B-2, and B-3 summarize the analytical data for the groundwater samples. Appendix G contains the laboratory Form I summary tables for the analyses performed. Section 2.2 discusses groundwater sample results and temporal trends.

1.4 SURFACE WATER AND LEACHATE STATION SEEP SAMPLING AND ANALYSIS

1.4.1 Sampling Activities

The surface water and leachate station seep sampling program prescribed for this sampling event was completed on 5 May 2003 in accordance with the most recent final Long-Term Monitoring Plan (EA 1999b). Water quality indicator parameters for the surface water sample and leachate seep samples are summarized in Table 5.

Notable observations of water quality indicator parameter measurements for surface water and the leachate seep sample are described below for informational purposes. Sample data quality is not expected to be adversely impacted due to variations in sample parameters noted below:

- The pH reading was slightly lower for the surface water sample collected for Monitoring Event 22 as opposed to those collected during Monitoring Event 21. The pH readings were slightly higher for the seep sample collected for Monitoring Event 22 as opposed to those collected during Monitoring Event 21.

- The dissolved oxygen concentrations were slightly higher for the surface water sample collected for Monitoring Event 22 as opposed to those collected during Monitoring Event 21. The dissolved oxygen concentrations were higher for the seep sample collected for Monitoring Event 22 as opposed to those collected during Monitoring Event 21.

- Temperature was lower for the surface water sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21. Temperature was lower for the seep sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21.

- Conductivity was higher for the surface water sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21. Conductivity was higher for the seep sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21.

- The Eh concentration was lower for the surface water sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21. Eh was higher for the seep sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21.

- Turbidity was higher for the surface water sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21. Turbidity was lower for the seep sample collected for Monitoring Event 22 as opposed to the sample collected for Monitoring Event 21.

Surface water and leachate station seep samples were analyzed for Target Compound List VOCs by EPA Method 8260B.

Table 1 provides a summary of the surface water and leachate station seep sampling program completed during Monitoring Event 22.

1.4.2 Analytical Data

Surface water sample results are summarized in Table B-4. Leachate seep sample results are summarized in Table B-5. Appendix G contains the Form I summary table for the analysis performed. The sample locations are shown on Figure 2.

1.5 STREAM SEDIMENT SAMPLING AND ANALYSIS

1.5.1 Sampling Activities

The stream sediment sampling program was completed on 5 May 2003 in accordance with the Long-Term Monitoring Plan (EA 1999b).

The stream sediment sample (SED-010) was analyzed for Target Compound List VOCs by EPA Method 8260B.

The stream sediment samples were collected with a modified version of the EnCore® sampler, preserved with sodium bisulfate and methanol, then extracted for VOC analysis using EPA Method 5035/5030. This collection, preservation, and extraction methodology was agreed upon at the 2 August 2000 Technical Meeting (EA 2000). Revisions to the Long-Term Monitoring Plan were completed in July 2001 (EA 2001b) and reflect the changes to the collection, preservation, and extraction procedures.

Table 1 provides a summary of the stream sediment sampling program completed during Monitoring Event 22.

1.5.2 Analytical Data

Table B-6 summarizes analytical results for the stream sediment sample. Appendix G contains the Form I summary table for the analysis performed. The sample location is shown on Figure 2.

1.6 VISUAL INSPECTION

Inspection activities at Site 9 were completed on 28 April 2003 in accordance with the Final Long-Term Monitoring Plan (1999b). There was no evidence of stressed vegetation or physical evidence of tampering with the site wells at the time of the inspection. The site monitoring wells were observed to be capped, labeled, locked, and in good condition.

1.7 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required to meet the data quality objectives of the sampling program (ABB-ES 1994). The data obtained during Monitoring Event 22 were determined to be of sufficient quality to be used to evaluate the long-term effectiveness of the remedial action (i.e., monitored natural attenuation). Table B-8 provides a summary of quality control samples collected from Site 9 between 5 and 8 May 2003.

1.8 ANALYTICAL DATA QUALITY REVIEW

A review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, completeness, comparability, and data quality objective requirements. A complete summary of the analytical data quality review is provided in Appendix D. Method detection limits for solid and aqueous media are included in Appendix D.1. The data represented in this report were found to meet the specified acceptance criteria, with the exception of the following:

- The non-detect results for bromoform, 2-chlorotoluene, 4-chlorotoluene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, dibromochloromethane, and naphthalene in Sample SD-010 are considered estimated based on matrix spike/matrix spike duplicate RPD criteria.

- The positive result for tetrahydrofuran in Sample MW-NASB-069 (DEEP) is considered estimated bias high based on matrix spike/matrix spike duplicate recovery criteria.

- The following compounds in sample SD-010 should be considered estimated bias low based on matrix spike/matrix spike duplicate recovery criteria:

  — The non-detect results for dichlorodifluoromethane, carbon disulfide, methylene chloride, *trans*-1,3-dichloropropene, tetrachloroethene, chlorobenzene, 1,1,1,2-tetrachloroethane, ethylbenzene, m, p-xylene, o-xylene, styrene, isopropylbenzene,

bromobenzene, n-propylbenzene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 4-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene, chloromethane, vinyl chloride, chloroethane, trichlorofluoromethane, *trans*-1,2-dichloroethene, chloroform, 1,1,1-trichloroethane, 1,1-dichloropropene, carbon tetrachloride, benzenecent, 1,2-dichloropropane, bromodichloromethane, dibromomethane, *cis*-1,3-dichloropropene, toluene, 1,1,2-trichloroethane, 1,2-dibromoethane, 1,3-dichloropropane, dibromochloromethane, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene.

- The positive results for tetrahydrofuran in 6 diffusion samples (MW-NASB-022 [deep], MW-NASB-069 [deep], MW-NASB-072 [deep], MW-NASB-074 [deep], MW-NASB-075 [deep], and MW-NASB-069 [deep] DUP) should be considered estimated bias low based on laboratory control sample recovery criteria.

- The non-detect results for acetone, methylene chloride, and trichloroethene in 2 of the sediment samples (SD-010 DUP and QT-04) should be considered estimated bias low based on laboratory control sample recovery criteria.

- The non-detect result for acetone in sediment sample SD-010 should be considered estimated bias low based on laboratory control sample recovery criteria.

- The result for carbon disulfide in the source water blank should be considered estimated bias low based on laboratory control sample recovery criteria.

- The positive toluene result for one rinsate blank sample (QS-002) should be considered false-positive due to method blank contamination.

- The positive results for acetone in Sample MW-NASB-021 (deep) and benzene in Sample MW-NASB-080 (deep) should be considered false-positive due to rinsate blank contamination.

- The result for vinyl chloride in Sample MW-NASB-076 DUP should be considered estimated based on field precision criteria.

- The results for vinyl chloride and *cis*-1,2-dichloroethene should be considered estimated in MW-NASB-069 and MW-NASB-069 DUP based on field precision criteria.

Despite the issues listed above, the analytical data are considered to be of sufficient quality to evaluate the long-term effectiveness of the remedial action.

2. TEMPORAL TRENDS AND OBSERVATIONS

2.1 WATER LEVEL GAUGING PROGRAM

Results of the water level gauging program conducted on 28 April 2003 indicate that groundwater flow is generally to the south at Site 9, toward the unnamed stream and 2 impoundment ponds located south of Neptune Drive. The interpreted flow pattern upgradient of Site 9 is to the southwest. The interpreted hydraulic gradient shows an increasing gradient to the south. The steepest hydraulic gradients are observed in the vicinity of the northern and southern branches of the unnamed stream and in the vicinity of the impoundment ponds. These groundwater flow patterns are consistent with previous gauging results.

Based on data collected during 28 April 2003, the following observations were noted:

- Shallow groundwater north of Neptune Drive is likely to flow toward the northern branch of the unnamed streams and associated branch of the lower impoundment pond.
- Groundwater flow from the portion of Site 9 that is west and immediately south of Building 201 is likely to flow toward the upper impoundment pond.
- Groundwater flow at MW-NASB-077 and MW-NASB-078 is consistently to the north toward the upper impoundment pond.
- The upper impoundment pond appears to act as a groundwater divide for shallow groundwater.

Table B-1 provides analytical data from the May 2003 sampling event. Groundwater samples were collected by low-flow sampling method and by aqueous diffusion samplers.

2.2 GROUNDWATER MONITORING AND SAMPLING PROGRAM

2.2.1 Water Quality Parameters

Water quality parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were measured during well purging. Although not required, Eh was recorded for informational purposes. Results are presented in Appendix E.

2.2.2 Groundwater Sampling Results

Trend graphs for the sampling locations at Site 9 from Monitoring Event 22 are provided in Appendix C. Historical trend graphs for select sampling points and compounds at Site 9 from 1995 through 2003 are also included in this report (Figures 4, 5, and 6). A comparison of

the results for the groundwater sampling and analysis program conducted at Site 9 indicates the following.

2.2.2.1 Volatiles

Overall, data results show that concentrations of 1,2-dichloroethene (1,2-DCE) and vinyl chloride have leveled off or have decreased over the last 2-3 years. The spike in vinyl chloride concentrations, particularly noted at MW-NASB-069, appears to have reached a maximum.

Higher vinyl chloride/total 1,2-DCE ratios indicate increasing dechlorination. Figure 4 depicts the least mean square regression based on ratios of vinyl chloride to total 1,2-DCE for Monitoring Events 1 through 22. The sum of the concentrations of vinyl chloride and 1,2-DCE in all study area wells is increasing at a similar rate (Figure 5). Regression lines through these data points are similar for total 1,2-DCE and vinyl chloride. The increasing trend for parent and daughter compounds based on data collected between 1995 and 2003 strongly suggest that the historical increase in vinyl chloride between 1998 and 2001 is related to the increase in 1,2-DCE concentrations (Figure 6). Dechlorination of 1,2-DCE and the subsequent formation of vinyl chloride appear to be occurring at a similar rate. The source of the 1,2-DCE at Site 9 is not apparent, but may be related to changing geochemical conditions at the Navy Exchange Service Station, which have affected groundwater chemistry at Site 9. Based on long-term monitoring data, the increase in 1,2-DCE concentrations appears to be limited to the groundwater present in the central portion of Site 9.

Spikes in VOC and vinyl chloride concentrations followed by decreasing concentrations have been observed in samples from site wells throughout the Long-Term Monitoring Program. Similar patterns are expected to continue. The data from the deep aqueous diffusion samplers at MW-NASB-069 and MW-NASB-080, (2 of 3 wells that have detected vinyl chloride in Monitoring Event 22) show vinyl chloride concentrations decreasing. The data from the aqueous diffusion samplers at MW-NASB-076 (1 of 3 wells that has detected vinyl chloride in Monitoring Event 22) show vinyl chloride concentrations increasing slightly. Vinyl chloride results for the MW-NASB-069 low-flow sample have increased slightly since the last monitoring event.

Based on groundwater data collected during historical monitoring events, the vinyl chloride plume at Site 9 is limited to the central portion of the site. Monitoring wells in the long-term monitoring network appear to be well positioned to assess changes in vinyl chloride concentrations north of the impoundment ponds. Therefore, if elevated concentrations of vinyl chloride were to occur in areas downgradient of MW-NASB-069, the existing monitoring well network is likely to effectively track changes in groundwater concentrations of VOCs.

The positive results for acetone in sample MW-NASB-021 (deep) and benzene in sample MW-NASB-080 (deep) should be considered false-positive due to rinsate blank contamination and, therefore, will not be discussed in this section or appear as part of the total VOC count (Appendix D).

- **Monitoring Well MW-NASB-021**—Volatile concentrations remained similar to results from past monitoring events (not detected) in the deep diffusion sample.

- **Monitoring Well MW-NASB-022**—Volatile concentrations remained similar to results from the last monitoring event (not detected) in the deep diffusion sample except for two contaminants: trichlorofluoromethane at 400 µg/L and tetrahydrofuran at 2.6J µg/L. Trichlorofluoromethane was not detected in any other sampling points at Site 9.

- **Monitoring Well MW-NASB-069**—Volatile concentrations in the deep diffusion sample for total VOC, vinyl chloride, and total 1,2-DCE decreased since the last monitoring event. Volatile concentrations for 1,1-dichloroethane (DCA), ethylbenzene, toluene, and total xylenes remained the same since the last monitoring event (not detected). Tetrahydrofuran was detected at a concentration of 2.8J µg/L. This monitoring well is located within the central portion of Site 9, and had historically shown the highest concentrations of vinyl chloride throughout the duration of the Long-Term Monitoring Program (1995-2003). Monitoring wells outside this central portion of Site 9 generally show steady non-detections of vinyl chloride, or decreasing vinyl chloride concentrations. Overall, since 1998, the concentration of vinyl chloride has ranged from approximately 3.0 µg/L to approximately 75 µg/L at this monitoring well location.

  — Note that the deep diffusion sampler results from MW-NASB-069 for vinyl chloride were considerably lower than the corresponding low-flow sample results (3.6 µg/L versus 48 µg/L). The reason for this disparity is not apparent from the recorded sampling information, however, field sampling error is the most likely cause. Recommendations for additional mid-depth sampling at this well is provided in Section 3.

- **Monitoring Well MW-NASB-071**—Volatile concentrations remained similar to results from the last monitoring event (not detected) in the deep diffusion sample.

- **Monitoring Well MW-NASB-072**—Volatile concentrations for 1,1-DCA, ethylbenzene, toluene, vinyl chloride, and total xylenes remained similar to results from the last monitoring event (not detected) in the deep diffusion sample. Total VOC and total 1,2-DCE concentrations decreased since the last monitoring event to not detected in the deep diffusion sample. Tetrahydrofuran was detected at a concentration of 2.6J µg/L. Overall, since 1998, the concentration of vinyl chloride has decreased to not detected at this monitoring well location.

- **Monitoring Well MW-NASB-074**—Volatile concentrations for 1,1-DCA, ethylbenzene, toluene, vinyl chloride, and total xylenes remained similar to results from the last monitoring event (not detected) in the deep diffusion sample. Total VOC, trichloroethene, and total 1,2-DCE concentrations remained similar since the last monitoring event in the deep diffusion sample. Tetrahydrofuran was detected at a

concentration of 2.8J µg/L. Vinyl chloride concentrations at this monitoring well have remained not detected since 1997.

- **Monitoring Well MW-NASB-075**— Volatile concentrations remained similar to results from the last monitoring event (not detected) in the deep diffusion sample except for one contaminant: tetrahydrofuran at 2.6J µg/L.

- **Monitoring Well MW-NASB-076**— Volatile concentrations remained similar to results from the last monitoring event (not detected) in the deep diffusion sample. Historically, this monitoring well has had four spikes in the concentration of vinyl chloride (one in 1996, one in 1997, one in 1998, and one in 2000); however, since 2000, the least mean square regression for vinyl chloride has been decreasing. The deep diffusion sample did not detect vinyl chloride at 2 µg/L or higher.

- **Monitoring Well MW-NASB-080**—Volatile concentrations for total VOC, and vinyl chloride have decreased since the last event. The compounds 1,1-DCA, and total 1,2-DCE decreased to not detected since the last monitoring event. Toluene, ethylbenzene, and total xylene remained similar to results from the last monitoring event (not detected). Since 2000, the least mean square regression for vinyl chloride has slightly decreased.

- **Monitoring Well MW-NASB-227**—Volatile concentrations for total VOCs, trichloroethene, methyl tert-butyl ether, and total 1,2-DCE remained essentially unchanged since the last monitoring event. Toluene, ethylbenzene, vinyl chloride, and 1,1-DCA remained similar to results from the last monitoring event (not detected) for the diffusion sample. Concentrations for total xylenes increased slightly since the last event.

2.2.2.2 Semivolatiles

- **Monitoring Well MW-NASB-069**—Semivolatile concentrations remained the same as compared to the last monitoring (not detected).

- **Monitoring Well MW-NASB-070**— Semivolatile concentrations remained the same as compared to the last monitoring (not detected).

- **Monitoring Well MW-NASB-079**— Semivolatile concentrations remained the same as compared to the last monitoring (not detected).

2.2.2.3 Inorganics

- **Monitoring Well MW-NASB-069**—Inorganic concentrations for manganese, iron, and potassium decreased slightly since the last monitoring event, however, manganese remains in exceedance of both the Federal Maximum Contaminant Level and State Maximum Exposure Guideline. Inorganic concentrations for aluminum and zinc

increased slightly from the last monitoring event. Inorganic concentrations for calcium magnesium, and sodium remained the same as compared to the last monitoring event. Inorganic concentrations for cadmium and chromium remained similar to the last monitoring event (not detected). The concentration of manganese has historically decreased since 1999. Historically, cadmium concentrations have remained consistently low since 1999 while the chromium concentration ranges from not detected to approximately 35 µg/L (including two spikes: one in 2000 and one in 2001).

- **Monitoring Well MW-NASB-070**—Inorganic concentrations for manganese, cadmium, potassium, and chromium decreased slightly since the last monitoring event, however, manganese remains in exceedance of both the Federal Maximum Contaminant Level and State Maximum Exposure Guideline. Inorganic concentrations for calcium, iron, magnesium, and sodium increased slightly since the last monitoring event. Historically, cadmium concentrations have remained consistently low since 1999 while the chromium concentration ranged from not detected to approximately 9 µg/L (including three spikes: one in 1999, one in 2000, and one in 2001). The concentration of manganese has historically remained consistently low except for two spikes in 1999 and 2001.

- **Monitoring Well MW-NASB-079**— Inorganic concentrations for manganese and magnesium remained the same since the last monitoring event, however, manganese remains in exceedance of the Federal Maximum Contaminant Level. Inorganic concentrations for aluminum, antimony, barium, beryllium, cadmium, chromium, cobalt, iron, nickel, vanadium, and zinc increased slightly since the last monitoring event. Iron remains in exceedance of the Federal Maximum Contaminant Level. Antimony is in exceedance of both the Federal Maximum Contaminant Level and State Maximum Exposure Guideline. Aluminum is in exceedance of the Federal Maximum Contaminant Level. Historically, the concentration of cadmium has remained consistently low (at/near not detected) since 1995 as well as the concentration of chromium, with the exception of 1 spike that occurred in 1998. The concentration of manganese has historically remained similar since 1995 ranging between 60 µg/L and 150 µg/L).

2.3 SURFACE WATER SAMPLING PROGRAM

A comparison of the results for the surface water sampling and analysis program conducted at Site 9 during Monitoring Event 22 indicate the following (Appendix C):

- **Surface Water Sample SW-010**—The total VOC concentration remained the same since the last monitoring event (not-detected). The vinyl chloride concentration remained the same (not detected) since the last monitoring event. Historically, total VOC and vinyl chloride concentrations have remained consistently low ranging between not detected to approximately 3 µg/L, with the exception of one spike in the total VOC concentration in 1996.

2.4 SEDIMENT SAMPLING PROGRAM

A comparison of the results for the sediment sampling and analysis program conducted at Site 9 during Monitoring Event 22 indicates the following (Appendix C):

- **Sediment Sample SED-10**—Total VOC concentrations remained the same since the last monitoring event (not detected). The vinyl chloride concentration remained the same (not detected) since the last monitoring event. Historically, the concentration of vinyl chloride has remained consistently low (<2 µg/Kg). Since 1995, total VOC concentrations have ranged from not detected to approximately 64 µg/Kg.

2.5 SEEP SAMPLING PROGRAM

A comparison of the results for the seep sampling and analysis program conducted at Site 9 during Monitoring Event 22 indicates the following (Appendix C):

- **Leachate Seep Sample LT-901**—Total VOC concentrations remained the same since the last monitoring event (not detected). Vinyl chloride concentrations remained the same to the last monitoring event (not detected). Historically, the concentration of vinyl chloride has remained at not detected levels since 1995, while the concentration of total VOCs has ranged from not detected to approximately 2 µg/L with the exception of three spikes: one in 1995, one in 1997, and one in 1998.

3. RECOMMENDATIONS

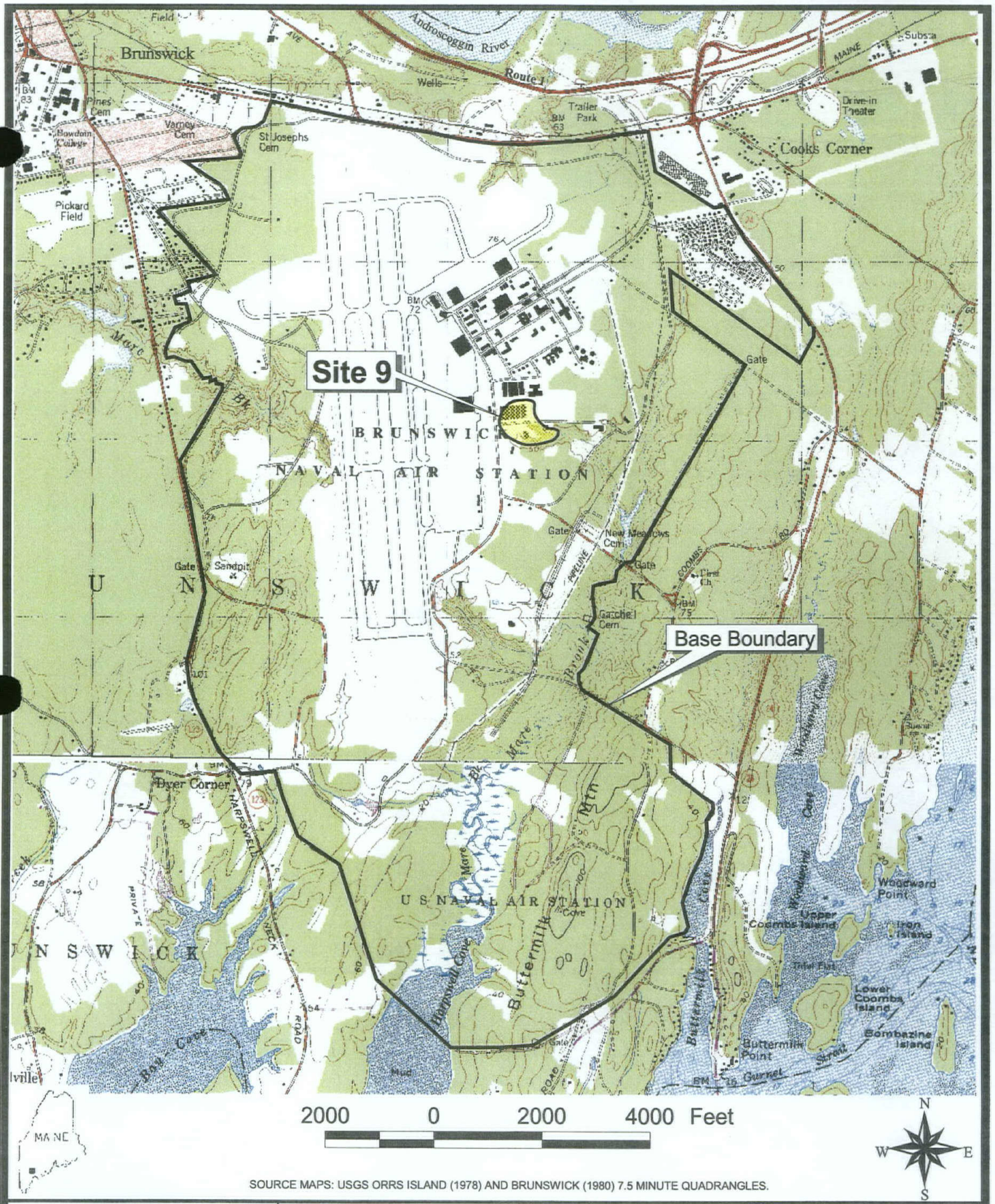
Based on an analysis of the data collected at Site 9 as part of the Long-Term Monitoring Program, the following recommendations are made:

- Continue long-term monitoring and sampling during September 2003 as per the latest version of the Long-Term Monitoring Plan to assess the effectiveness of natural attenuation with long-term monitoring—the selected remedy for the site.

- Continue the use of aqueous diffusion samplers as described in the draft Diffusion Sampler Proposal (EA 2003), dated 12 March 2003, to collect VOCs at Site 9.

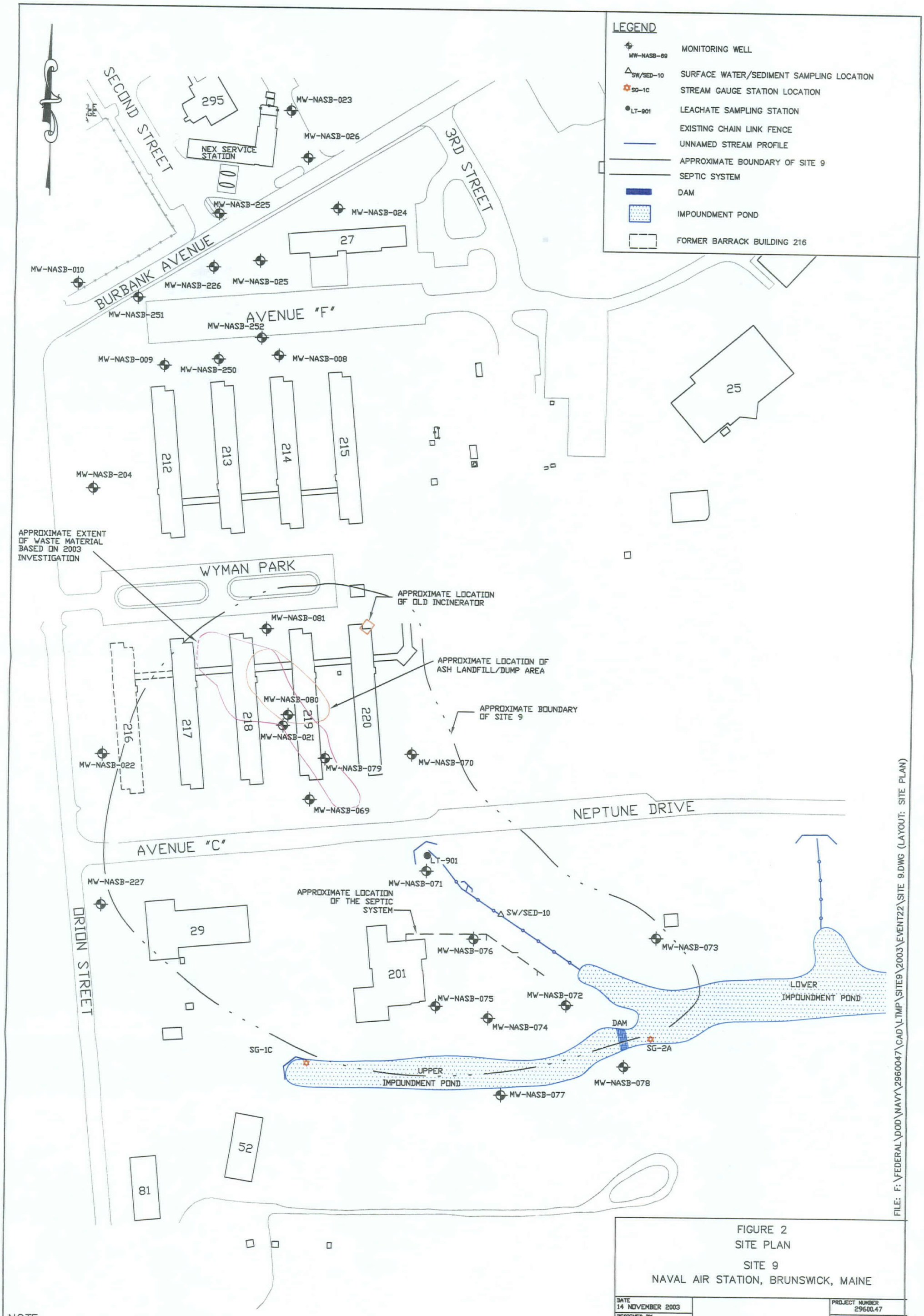
- One recommended change to this proposal is to deploy 3 samplers at MW-NASB-069 (shallow, mid-depth, and deep) to assess whether the mid-depth sample will show more similar results than the deep sampler compared to low-flow results. Data from Monitoring Event 22 showed a significant difference in low-flow versus deep diffusion sampler results that could have resulted from an upward shift in the vinyl chloride plume. Inclusion of the mid-depth diffusion sample will permit assessment of this hypothesis.

- Continue gauging of wells located at Site 9, upgradient wells, and monitoring wells at the Navy Exchange Service Station during September 2003 to collect data on groundwater flow patterns.



SOURCE MAPS: USGS ORRS ISLAND (1978) AND BRUNSWICK (1980) 7.5 MINUTE QUADRANGLES.

EA®	NAVAL AIR STATION BRUNSWICK, MAINE			FIGURE I SITE LOCATION MAP, SITE 9 (NEPTUNE DRIVE DISPOSAL SITE)			
PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
ACE	DC	DC	RW	AS SHOWN	14 NOV 2003	29600.47	I:\NASB_GIS \NAVY.APR

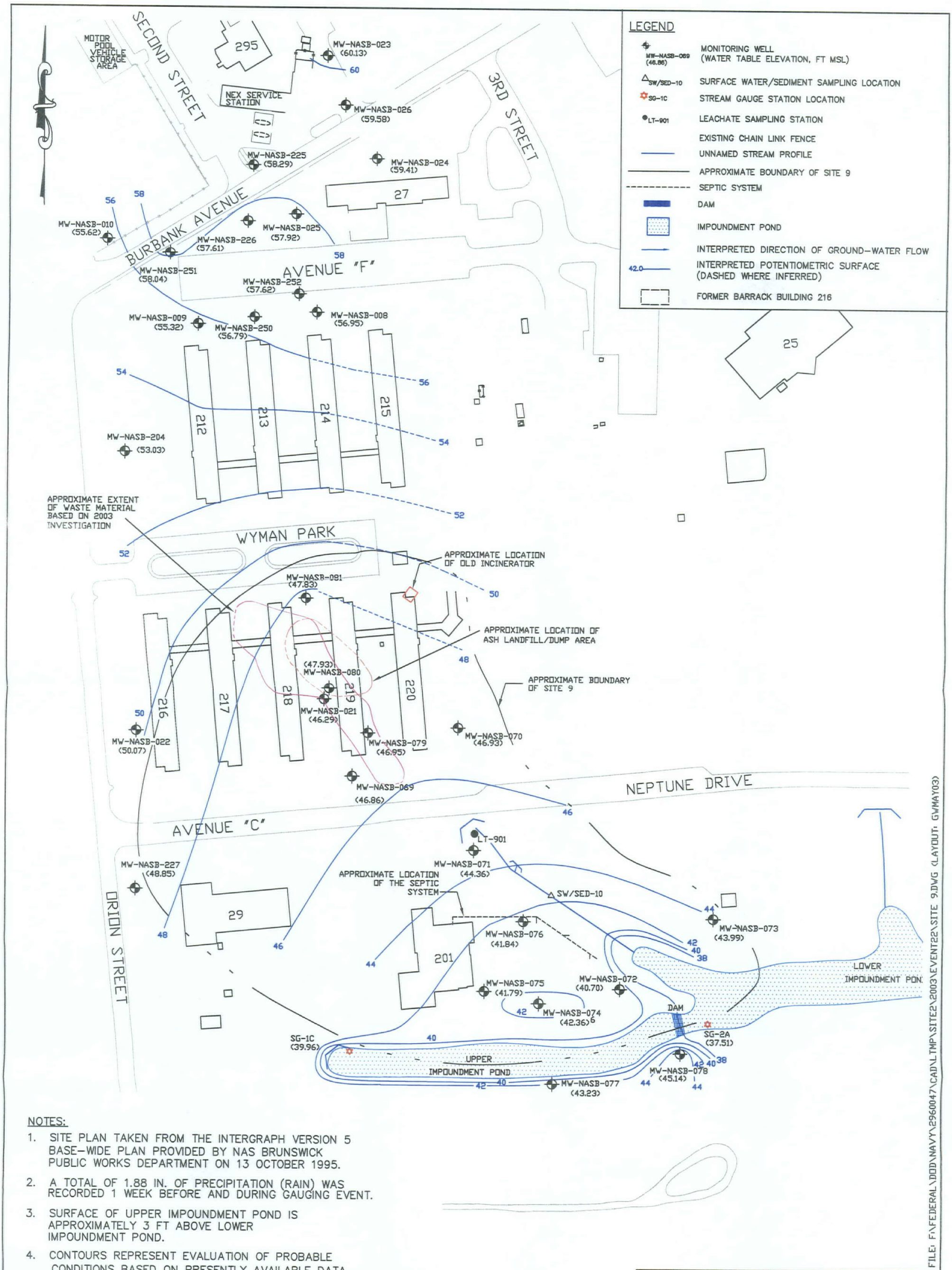


NOTE:
SITE PLAN TAKEN FROM THE INTERGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.

FIGURE 2
SITE PLAN
SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

DATE 14 NOVEMBER 2003		PROJECT NUMBER 29600.47
DESIGNED BY SAP		SCALE 1"=140'
DRAWN BY SAP		FILE NAME SITE 9.DWG
CHECKED BY AE/GMC		DRAWING NUMBER –
PROJECT MANAGER AE		SHEET NUMBER –

FILE: F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\SITE9\2003\EVENT22\SITE 9.DWG (LAYOUT: SITE PLAN)



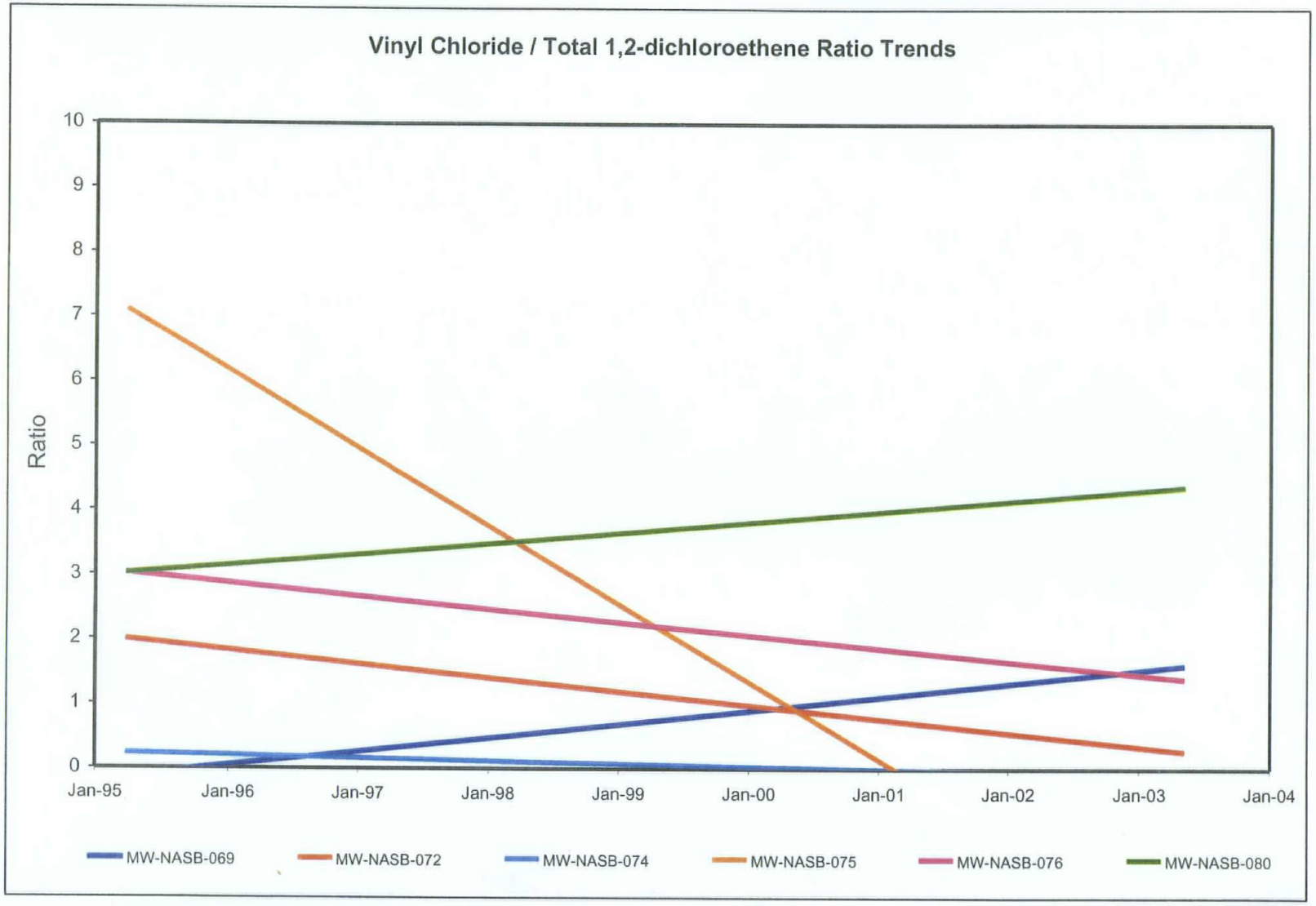
NOTES:

1. SITE PLAN TAKEN FROM THE INTERGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. A TOTAL OF 1.88 IN. OF PRECIPITATION (RAIN) WAS RECORDED 1 WEEK BEFORE AND DURING GAUGING EVENT.
3. SURFACE OF UPPER IMPOUNDMENT POND IS APPROXIMATELY 3 FT ABOVE LOWER IMPOUNDMENT POND.
4. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
5. CONTOUR INTERVAL = 2 FT.
6. THE MEASURED POTENTIOMETRIC HEAD AT THIS LOCATION IS LIKELY DUE TO THE DEEPER SCREEN INTERVAL OF WELL MW-NASB-074. ACTUAL EFFECTS ON FLOWPATHS ARE EXPECTED TO BE MINOR.

FIGURE 3
INTERPRETIVE POTENTIOMETRIC SURFACE ELEVATIONS, 28 APRIL 2003 WELL GAUGING DATA
SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

DATE 14 NOVEMBER 2003	EA	PROJECT NUMBER 29600.47
DESIGNED BY SAP		SCALE 1"=140'
DRAWN BY SAP		FILE NAME SITE 9.DWG
CHECKED BY AE/GMC		DRAWING NUMBER –
PROJECT MANAGER AE		SHEET NUMBER –

FILE: F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\SITE2\2003\EVENT22\SITE 9.DWG (LAYOUT: GWMAY03)



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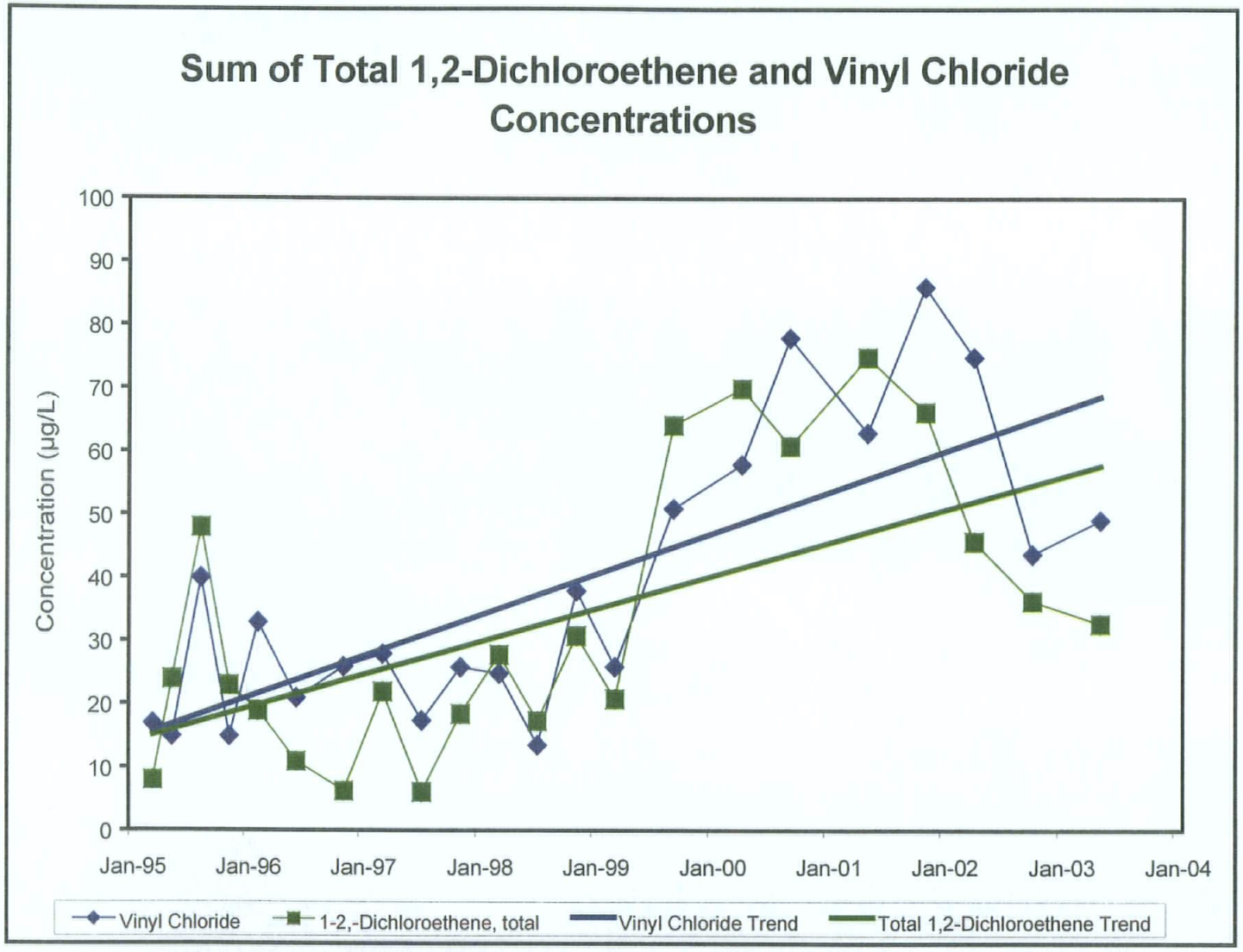
NOTE: Higher vinyl chloride/total 1,2 -dichloroethene ratio indicates increasing dechlorination.
Lines show least mean square regression based on ratios of vinyl chloride to total 1,2-dichloroethene.

Figure 4. Vinyl chloride/total 1,2-dichloroethene ratio trends, Monitoring Events 1 through 22.



Analyte concentrations less than the sample detection limit (2 µg/L) were summed as zero concentrations in these graphs.

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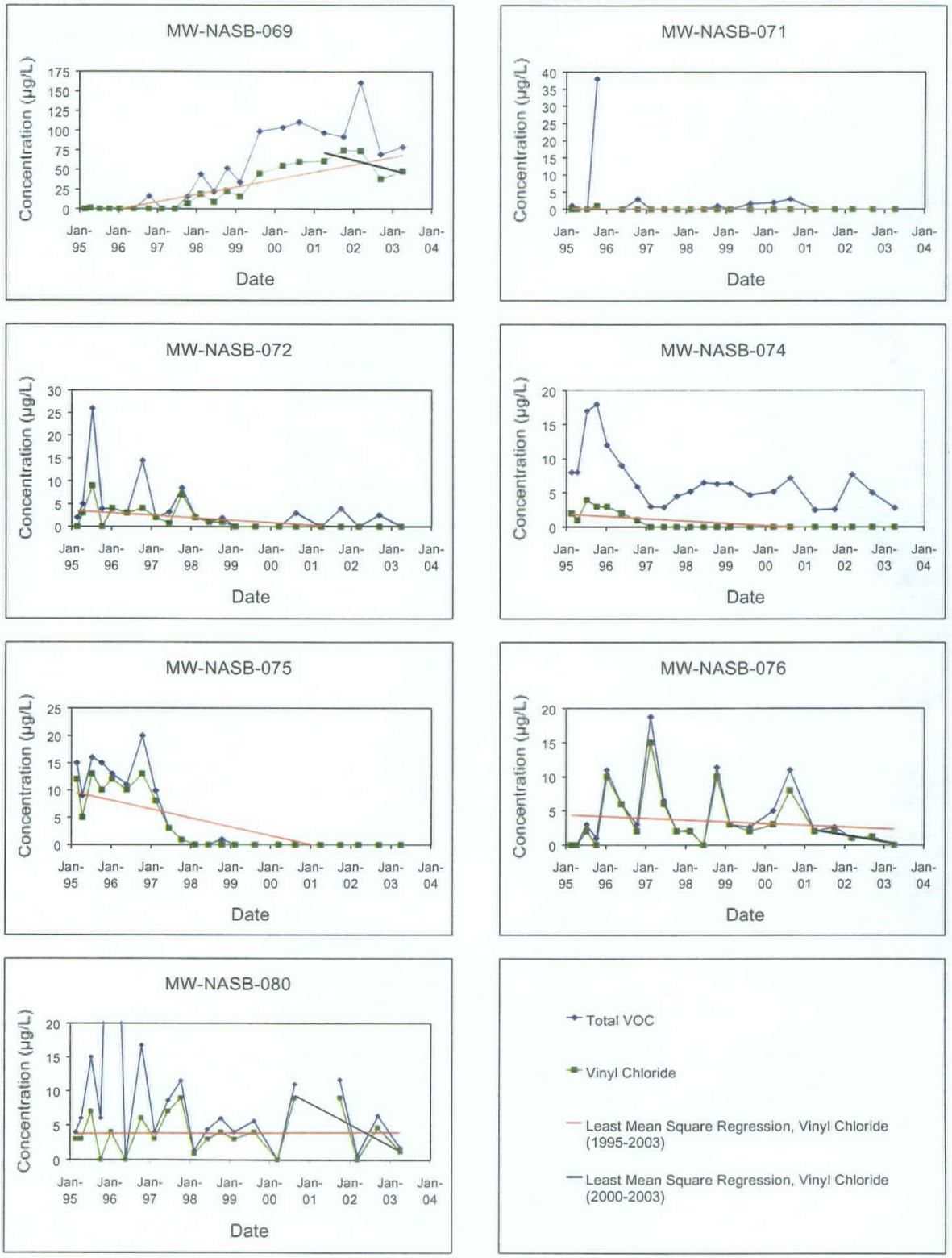
Figure 5. Sum of vinyl chloride and 1,2-dichloroethene, total concentrations, 1995-2003.



NOTE: Vinyl chloride concentrations less than the detection limit (2 µg/L) are plotted as a zero concentration on these charts. MW-NASB-080 graph scale enlarged to show vinyl chloride trends. Acetone concentration detected in February 1996 is considered a laboratory contaminant and is shown off graph scale.

Figure 6. Total volatile organic compounds and vinyl chloride trends, 1995-2003.

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITE 9

Well Designation	Previous Well Designation	Monitoring Frequency	Sample Parameters			Monitoring Event 22			
			TCL VOC	SVOC	TAL Elements	Field Parameters[a]	Gauged	Low-Flow Sample	ADS
Monitoring Wells									
MW-NASB-069	MW-901	Bi-Annual	X	X	X	X	X	X	X
MW-NASB-070	MW-902	Bi-Annual	NR	X	X	X	X	X	NR
MW-NASB-071	MW-903	Bi-Annual	X	NR	NR	NR	X	NR	X
MW-NASB-072	MW-904	Bi-Annual	X	NR	NR	NR	X	NR	X
MW-NASB-073	MW-905	Bi-Annual	NR	NR	NR	NR	X	NR	NR
MW-NASB-074	MW-906	Bi-Annual	X	NR	NR	NR	X	NR	X
MW-NASB-075	MW-907	Bi-Annual	X	NR	NR	NR	X	NR	X
MW-NASB-076	MW-908	Bi-Annual	X	NR	NR	NR	X	NR	X
MW-NASB-077[b]	MW-909	Bi-Annual	NR	NR	NR	NR	X	NR	NR
MW-NASB-078	MW-910	Bi-Annual	NR	NR	NR	NR	X	NR	NR
MW-NASB-079	MW-914	Bi-Annual	NR	X	X	X	X	X	NR
MW-NASB-080	MW-915	Bi-Annual	X	NR	NR	NR	X	NR	X
MW-NASB-081	MW-916	Bi-Annual	NR	NR	NR	NR	X	NR	NR
MW-NASB-021	None	Bi-Annual	NR	X	NR	NR	X	NR	X
MW-NASB-022	None	Bi-Annual	NR	X	NR	NR	X	NR	X
MW-NASB-204	None	Bi-Annual	NR	NR	NR	NR	X	NR	NR
MW-NASB-227	None	Bi-Annual	NR	X	NR	NR	X	NR	X

Sample Type/Location	Monitoring Frequency	Sample Parameters		Monitoring Event 22	
		TCL VOC	Field Parameters[a]	Gauged	Sampled
Leachate Station					
LT-901 (SEEP)	Bi-Annual	X	X	NR	X
Surface Water					
SW-010	Bi-Annual	X	X	NR	X
Sediment					
SED-010	Bi-Annual	X	NR	NR	X
Stream Gauge Water					
SG-1C[c]	Bi-Annual	NR	NR	X	NR
SG-2A	Bi-Annual	NR	NR	X	NR

(a) 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 (180.1); optional field parameters, including dissolved oxygen (Method 360.1) and Eh, were also recorded. Includes water level measurement.

(b) Monitoring well MW-NASB-077 was analyzed for two rounds (September 1999 and April 2000) using U.S. Environmental Protection Agency Method 8260B modified for selected ion mass for vinyl chloride. Results for both rounds were non-detect, therefore, monitoring well MW-NASB-077 was removed from the sampling program in August 2000.

(c) Stream gauge SG-1A was replaced with SG-1B prior to Monitoring Event 17. Stream gauge SG-1B was replaced with SG-1C prior to Monitoring Event 21.

NOTE: TCL = Target Compound List.
VOC = Volatile organic compound.
SVOC = Semivolatile organic compound.
TAL = Target Analyte List.
ADS = Aqueous diffusion sampler.
NR = Procedure not required.

TABLE 2 MONITORING WELL GAUGING SUMMARY, SITE 9, 28 APRIL 2003

Well Designation	Previous Well Designation	Top of Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below Top of PVC Riser)	Depth to Water (ft below Top of PVC Riser)	Water Table Elevations (ft MSL)
MW-NASB-069	MW-901	57.35	42.42	10.49	46.86
MW-NASB-070	MW-902	58.26	27.32	11.33	46.93
MW-NASB-071	MW-903	46.25	21.54	1.89	44.36
MW-NASB-072	MW-904	49.81	14.63	9.11	40.70
MW-NASB-073	MW-905	51.71	32.15	7.72	43.99
MW-NASB-074	MW-906	51.68	27.12	9.32	42.36
MW-NASB-075	MW-907	54.91	21.22	13.12	41.79
MW-NASB-076	MW-908	52.79	19.94	10.95	41.84
MW-NASB-077	MW-909	58.89	37.29	15.66	43.23
MW-NASB-078	MW-910	53.74	14.93	8.60	45.14
MW-NASB-079	MW-914	58.15	18.92	11.20	46.95
MW-NASB-080	MW-915	58.51	19.04	10.58	47.93
MW-NASB-081	MW-916	58.22	18.94	10.39	47.83
MW-NASB-021	None	57.35	50.30	11.06	46.29
MW-NASB-022	None	59.52	17.97	9.45	50.07
MW-NASB-204	None	62.09	17.79	9.06	53.03
MW-NASB-227	None	58.39	40.60	9.54	48.85
Stream Gauging Station					
SG-1C	None	42.41[a]	NA	2.85	39.96
SG-2A	None	34.41[a]	NA	3.10	37.51

(a) Measurement from surveyed point on staff gauge. Zero mark on the staff gauge is the measured elevation.

NOTE: MSL = Mean sea level.
PVC = Polyvinyl chloride.
NA = Not applicable.

TABLE 3 MONITORING WELL GAUGING SUMMARY FOR 28 APRIL 2003 AT THE NAVY EXCHANGE SERVICE STATION

Well Designation	Top of Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below Top of PVC Riser)	Depth to Water (ft below Top of PVC Riser)	Water Table Elevations (ft MSL)
MW-NASB-8	59.22	13.15	2.27	56.95
MW-NASB-9	59.00	11.50	3.68	55.32
MW-NASB-10	62.03	12.40	6.41	55.62
MW-NASB-23	67.29	21.90	7.16	60.13
MW-NASB-24	65.31	13.15	5.90	59.41
MW-NASB-25	64.34	14.70	6.42	57.92
MW-NASB-26	66.61	12.55	7.03	59.58
MW-NASB-225	64.61	14.31	6.32	58.29
MW-NASB-226	62.22	12.68	4.61	57.61
MW-NASB-250	60.21	10.00	3.42	56.79
MW-NASB-251	62.39	8.55	4.35	58.04
MW-NASB-252	60.54	11.75	2.92	57.62

NOTE: MSL = Mean sea level.
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.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUNDWATER SAMPLES COLLECTED ON 8 MAY 2003 AT SITE 9

Well Designation	Previous Well Designation	pH	Temperature (°C)[a]	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Low-Flow Sampling							
MW-NASB-069	MW-901	6.02	15.35	323	0.65	2	98
MW-NASB-070	MW-902	5.82	14.63	114	2.39	0.8	189
MW-NASB-079	MW-914	6.84	16.16	302	0.19	6	-167
Diffusion Sampling							
MW-NASB-069	MW-901	7.04	9.59	275	EM	NC	43
MW-NASB-071	MW-903	6.75	9.93	292	EM	NC	20
MW-NASB-072	MW-904	6.67	7.14	109	EM	NC	50
MW-NASB-074	MW-906	6.61	8.60	321	EM	NC	64
MW-NASB-075	MW-907	6.23	10.36	348	EM	NC	77
MW-NASB-076	MW-908	6.49	9.48	315	EM	NC	37
MW-NASB-080	MW-915	6.72	11.22	267	EM	NC	40
MW-NASB-021	None	6.91	11.60	259	EM	NC	29
MW-NASB-022	None	6.87	8.33	350	EM	NC	41
MW-NASB-227	None	6.80	9.82	225	EM	NC	38

(a) Temperature results for low-flow samples may not be representative of actual conditions due to operation of the submersible pump.

NOTE: NTU = Nephelometric turbidity unit.
NC = Not collected.
NA = Not available.
EM = Equipment malfunction, data not available.
Diffusion sampling water quality data were collected utilizing an in-well YSI 600XL. It should be noted that this water quality meter does not record turbidity.

TABLE 5 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED ON 5 MAY 2003 AT SITE 9

Sample Designation	pH	Temperature (°C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-010	6.04	10.5	335	8.39	1.4	61.5
Leachate Seep						
LT-901	6.44	10.77	329	7.61	0.4	68.9

NOTE: NTU = Nephelometric turbidity unit.

REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1994. Interim Groundwater Record of Decision for the Groundwater Operable Unit at Site 9. September.

EA Engineering, Science, and Technology, Inc. 1996. Final Report, Quarterly Monitoring Event 4 –November 1995, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. February.

EA. 1999a. Final Record of Decision for Site 9, Naval Air Station, Brunswick, Maine. September.

EA. 1999b. Final Long-Term Monitoring Plan, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. August.

EA. 2000. Technical Meeting Minutes. 2 August.

EA. 2001a. Summary of the April 2001 Aqueous Diffusion Sampling Pilot Study for Site 9, Naval Air Station, Brunswick, Maine. August.

EA. 2001b. Draft Revision No. 1, Long-Term Monitoring Plan, Site 9, Naval Air Station, Brunswick, Maine. July.

EA. 2003. Draft Diffusion Sampler Proposal, Naval Air Station, Brunswick, Maine. 12 March.

Appendix A

Response to Comments from the Maine Department of Environmental Protection and U.S. Environmental Protection Agency on the Draft Report

RESPONSE TO RESPONSE TO COMMENTS FROM THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION ON THE SITE 9 MONITORING EVENT 22 (APRIL/MAY 2003) REPORT NAVAL AIR STATION, BRUNSWICK, MAINE

COMMENTOR: Claudia Sait	
COMMENT DATE: 28 July 2004	NAVY RESPONSE DATE: 18 August 2004

The Maine Department of Environmental Protection (MEDEP) has reviewed the Navy's Response to Comments (RTC) dated 25 May 2004 for Monitoring Event 22 Report–April/May 2003 for Site 9 (November 2003), prepared by EA Engineering, Science, and Technology. Based on that review, MEDEP has one follow-up comment.

7. Table B-1, Summary of Groundwater Samples Collected from Site 9 on May 8, 2003:

The vinyl chloride data (low flow and deep diffusion) presented for MW-NASB-069 are cause for concern and require explanation. Two low-flow samples (primary and duplicate) have concentrations of 48 µg/L and 46 µg/L, respectively. These values fit nicely into the historic trend graph. On the other hand, neither the shallow nor deep diffusion sample results (0.77J µg/L and 3.6 µg/L) remotely agree with lab results over the past four years. Granted, the low-flow technique draws groundwater from the vertical center of the well screen, whereas the diffusion samplers are several feet above and below the screen center. However, the low flow should be integrating over those depth intervals, and would be expected to be diluted considerable by apparent cleaner water from above and below. The discrepancy does not seem to be a laboratory analytical problem. Because MW-NASB-069 is the key monitoring well at Site 9, similar disparity of results in future monitoring events must be investigated thoroughly, and corrective actions could be needed. MEDEP would like to discuss this in more detail at the upcoming Technical Meeting in April. (MTG)

Navy's Response—We agree that the diffusion samplers collected during this event do not appear to be representative of site conditions, as evidenced by the disparity between the low-flow samples and diffusion samplers. Although the actual cause cannot be identified, it is possible that some sort of field error resulted in this disparity. It should be noted that diffusion samples collected during previous sampling events and Monitoring Event 23 show very good correlation between these sampling methods.

To highlight this issue, the text on Page 10 discussing Monitoring Well MW-NASB-069, bullet 2nd sentence has been revised as follows:

The reason for this disparity is not apparent at this time, however, it is likely related to field sampling techniques during this event.

MEDEP's Follow-Up Response—The Navy's response attributes the extreme difference in concentrations between low-flow and in-situ diffusion samplers to "some sort of field error". However, the proposed revision of the sentence in question on page 10 of the report reads

"...it is likely related to field sampling techniques during this event." These two phrases have different implications. If the Navy cannot identify the problem more specifically, MEDEP believes that the sentence should read: *"The reason for this disparity is not apparent from recorded sampling information, however, field sampling error is the most likely cause."*

Navy's Follow-Up Response—The sentence will be revised as recommended in the MEDEP's follow-up response. The sentence will be revised as follows:

> *The reason for this disparity is not apparent ~~at this time~~ from the recorded sampling information, however, ~~it~~ field sampling error is the most likely ~~related to field sampling techniques during this event~~cause.*

RESPONSE TO COMMENTS FROM THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION ON THE SITE 9 MONITORING EVENT 22 (APRIL/MAY 2003) REPORT NAVAL AIR STATION, BRUNSWICK, MAINE

COMMENTOR: Claudia Sait	
COMMENT DATE: 12 March 2004	NAVY RESPONSE DATE: 25 May 2004

The Maine Department of Environmental Protection (MEDEP) has reviewed the draft *Monitoring Event 22 Report-April/May 2003 for Site 9: Neptune Drive Disposal Site*, dated November 2003, prepared by EA Engineering, Science, and Technology. Based on that review, MEDEP has the following comments and issues.

GENERAL COMMENTS

1. Direct-push groundwater sampling at Site 9 was performed at nine locations in June 2003 at the request of MEDEP. Because the new locations were sampled reasonably close after Monitoring Event 22 occurred, the direct-push data set showing some contaminants in groundwater was used to augment MEDEP's review of Monitoring Event 22. MEDEP reviewed the draft field investigation report of October 2003, and submitted comments to the Navy on December 8, 2003. Since then, Site 9 and the newly collected data were discussed at length at the Technical Meeting in Southborough, Massachusetts (January 26-27, 2004). At this meeting, MEDEP presented a top-of-clay contour map combined with contaminant concentrations from the new direct-push borings and historical contaminant data for the site monitoring wells. A low in the clay surface with a south-southwest orientation was interpreted from the data. However, no existing monitoring wells or direct-push investigations have targeted this possible migration route. The nearest monitoring well MW-NASB-227 has had consistent low-level hits of TCE (just under the MCL/MEG). The source area(s) of the TCE is unknown, however, it also occurs outside the presently defined vinyl chloride migration pathway, which heads southeast. Subsequently, the Navy agreed to perform two additional direct pushes south of Building 29 in an apparent extension of the clay depression to sample groundwater at various heights above the clay. These new data to be collected in mid-2004 should indicate whether the Site 9 VOC plume has been bounded, or if contamination at levels of concern have migrated (or could migrate) beyond the Site 9 boundaries identified in the Record of Decision (ROD). (NR)

   Response—The two direct-push locations suggested by MEDEP are scheduled for completion in early June 2004. A letter report will be prepared to summarize the findings of the investigation, and will be used to assess the potential for a "clay trough" that may be affecting VOC migration.

SPECIFIC COMMENTS

2. Section 1.8, Analytical Data Quality Review, p. 7, last bullet:

   a.) "The results for vinyl chloride and *cis*-1,2 dichloromethane should be considered estimated in MW-NASB-069 and MW-NASB-069 DUP based on field precision criteria."

   Table B-1 does not show that an analyte known as *cis*-1,2 dichloromethane was run. It seems obvious that the compound in question is *cis*-1,2,dichloroethene. Please clarify and correct this reference. (ED)

   Response—An error in the text will be changed from *cis*-1,2 dichloromethane to *cis*-1,2,dichloroethene.

   b.) "Despite the issues listed above, the analytical data are considered to be of sufficient quality to evaluate the long-term effectiveness of the remedial action."

   MEDEP has discussed the quality assurance and control of the receiving laboratory with the Navy and hopes that this continuing problem will be addressed. Otherwise it may become necessary for the laboratory to provide additional support for this conclusion. (RR)

   Response—The goal of the data quality review is to identify problems which compromise the usability of the data collected during a monitoring event. The data user is made aware of laboratory issues in the Analytical Data Quality Review section, as required by the Long-Term Monitoring Plan. The issues noted in the data quality review are generally relatively minor and the statement cited in the comment is accurate.

3. Section 2.2.2, Groundwater Sampling Results, pages 8-12:

   No comments will be included for this section as it is nearly the same information in each monitoring event report, and comments for Monitoring Event 23 will be shortly forthcoming. (NR)

   Response—No response required.

4. Section 2.4, Sediment Sampling Program, p. 13, bullet:

   "Since 1995, total VOC concentrations have ranged from not detected to approximately 32 µg/L, with the exception of 1 spike in 2001."

   As state in previous comment letters, the correct units are µg/kg for sediment contaminant analytical results. The "spike" referred to above has an apparent value of 64 µg/kg, as shown in Figure 64 of Appendix C. MEDEP does not consider a doubling of the next highest value to constitute a "spike". Please rewrite the above statement as follows: *"Since 1995, total VOC concentrations have ranged from not detected to approximately 64 µg/kg."* (ED)

   Response—The text has been changed as requested.

5. Figure 3, Interpreted Potentiometric Surface Elevations, 28 April 2003:

The enclosed 42-foot contour that surrounds MW-NASB-074, while real in terms of potentiometric head, should not be used to draw groundwater flow lines. As pointed out in previous MEDEP comments, the groundwater head elevation in the well is higher than that in MW-NASB-075 because its screen is at lower elevation and the clay surface elevation is higher at MW-NASB-074. Therefore, the groundwater flowlines in the vertical dimension rise as groundwater moves closer to its discharge point at the impoundment pond. While this results in an apparent downgradient rise in head elevation at MW-NASB-074, it would not cause a significant deflection in the flow path as evidenced by the presence of TCE and cis-1,2- DCE in the April 2003 well sample. (NR)

Response—A note has been added to this well on Figure 3 stating:

The measured potentiometric head at this location is likely due to the deeper screen interval of well MW-NASB-074. Actual effects on flowpaths are expected to be minor.

6. Table 4, Summary of Water Quality Indicator Parameters, water temperature:

The table shows two temperatures for MW-NASB-069 that are very different: 15.35 °C for the low-flow submersible pumping sample, and 9.59 for the diffusion bag sample. The other two pumped samples at different locations have reported temperatures of 14.63 and 16.16 °C. The temperatures reported for the diffusion samples at ten locations range from 7.14 to 11.60 °C. This data set is a clear example of the water temperature being artificially elevated by the well pump, as MEDEP has suggested a number of times in previous site report reviews. From now on, the Navy should include a footnote to all field parameter tables that states that temperatures reported for wells where submersible pumps are used in low-flow sampling likely do not represent in-situ groundwater temperatures. (ED)

Response—A note has been added to Table 4 stating:

Temperature results for low-flow samples may not be representative of actual conditions due to operation of the submersible pump.

7. Table B-1, Summary of Groundwater Samples Collected from Site 9 on May 8, 2003:

The vinyl chloride data (low flow and deep diffusion) presented for MW-NASB-069 are cause for concern and require explanation. Two low-flow samples (primary and duplicate) have concentrations of 48 µg/L and 46 µg/L, respectively. These values fit nicely into the historic trend graph. On the other hand, neither the shallow nor deep diffusion sample results (0.77J µg/L and 3.6 µg/L) remotely agree with lab results over the past four years. Granted, the low-flow technique draws groundwater from the vertical center of the well screen, whereas the diffusion samplers are several feet above and below the screen center. However, the low flow should be integrating over those depth intervals, and would be expected to be diluted considerable by apparent cleaner water from above and below. The discrepancy does not seem to be a laboratory analytical problem. Because MW-NASB-069 is the key

monitoring well at Site 9, similar disparity of results in future monitoring events must be investigated thoroughly, and corrective actions could be needed. MEDEP would like to discuss this in more detail at the upcoming Technical Meeting in April. (MTG)

Response—We agree that the diffusion samplers collected during this event do not appear to be representative of site conditions, as evidenced by the disparity between the low-flow samples and diffusion samplers. Although the actual cause cannot be identified, it is possible that some sort of field error resulted in this disparity. It should be noted that diffusion samples collected during previous sampling events and Monitoring Event 23 show very good correlation between these sampling methods.

To highlight this issue, the text on Page 10 discussing Monitoring Well MW-NASB-069, bullet 2nd sentence has been revised as follows:

> *The reason for this disparity is not apparent at this time, however, it is likely related to field sampling techniques during this event.*

RESPONSE TO COMMENTS FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY ON THE SITE 9 MONITORING EVENT 22 (APRIL/MAY 2003) REPORT NAVAL AIR STATION, BRUNSWICK, MAINE

COMMENTOR: Christine Williams	
COMMENT DATE: 23 December 2003	NAVY RESPONSE DATE: 16 August 2004

Pursuant to § 6 of the Naval Air Station Brunswick, Maine Federal Facility Agreement, dated 19 October 1990, as amended (FFA), the Environmental Protection Agency has reviewed the subject documents and comments are below.

GENERAL COMMENTS

1. Event 22 sampling and analysis is complete, carefully executed, and documented fully. Results are generally consistent with those from recent past events.

   Response—We appreciate this comment.

2. It is noted in Table 4 that the Eh data reported from the downhole measurement taken in conjunction with the collection of the diffusion samplers seem somewhat suspect. A direct comparison to independent data is possible only for MW-NASB-069, for which the field parameters were collected both downhole prior to purging and with a flow-through cell during the low-flow purge. For this particular well, the results are not dramatically different (98 mV for the low-flow sample; 43 mV from the downhole measurement). However, the range of ORP reported from the three wells sampled by the low-flow method is -167 mV to +189 mV, while the range among the ten wells sampled downhole is only 20 to 77 mV. The flow-through results appear to be plausible, as they are corroborated by, for example, results for dissolved iron (see, e.g., Table B-3), which show a strong inverse correlation with ORP. It seems unlikely that the larger number of wells sampled only downhole would encounter a much narrower range of redox conditions. Unfortunately, a failure of the DO meter in the downhole instrument means that DO data are not available to corroborate the ORP data.

   Response—We agree in general with this comment. Some significant variation was noted in the ORP measurements at MW-NASB-069 which is the only well for which a direct correlation can be made between low-flow and diffusion sampling. Whether this variation is significant is open for discussion. It should be noted that different meters are used to record sample parameters as one instrument (the YSI 600XL) is used to record parameter inside the well screen, while a flow-through meter is used on the surface for low-flow sampling. Because results from two different field instruments are being compared, some variation must be expected. Additional variation may be expected due to the different conditions in which readings are taken (i.e., *in situ* groundwater versus water which has been pumped to the surface). We believe that the data being collected for these field parameters can be used for its intended purpose—to establish when groundwater samples can be collected, and to

collect data regarding differences in geochemical conditions at the site. We would like to discuss this issue at an upcoming technical meeting, if the EPA feels this is warranted.

SPECIFIC COMMENTS

3. **p. 2, Sec. 1.2.2:** The water-level contours shown in Figure 3 do not respect the datum at MW-NASB- 251. Is this datum considered suspect? If so, what is the rationale behind this conclusion? If the data for all wells in this vicinity are considered valid, what are the implications for the flow field (e.g., flow to the west?)?

   Response—The water elevation at MW-NASB-251 is believed to be accurate although the 58-ft contour line was incorrectly drawn. The figure has been revised so that the 58-ft contour wraps between MW-NASB-010 and MW-NASB-251.

4. **p. 3, Sec. 1.3.1:** The text notes here (and again on p.8, sec. 2.1) that Eh (ORP) data are not required by the LTMP, but that these data are being recorded for "informational purposes." Please note that these data are essential for interpretation of the chemical data, both for organic compounds and inorganic elements, and the program should continue to make every effort to collect ORP data when sampling.

   Response—The text of the Monitoring Event 22 Report is accurate as written. Note that the latest version of the Long-Term Monitoring Plan requires collection of Eh.

5. **p. 9, Sec. 2.2.2.1:** The report offers discussion of trends in1,2-DCE and VC, and includes a figure (Figure 4) showing linear regressions on the ratio of VC to total 1,2-DCE. This figure provides a useful visualization. However, it would be more meaningful if it were to show the individual points on which the regressions are based, as well as the fits. This would allow a visual assessment of the scatter of the data about the linear trends, and provide a feel for how meaningful these apparent trends are. The text states, "Higher vinyl chloride/total 1,2-DCE ratios indicate increasing dechlorination," seeming to imply that this is the case for the Site 9 data. However, the plot alone is not entirely convincing. Subsequent discussion in this section notes that 1,2-DCE and VC concentrations are highly correlated, which is apparent in Figure 5. If this is the case, the overall ratio of VC to total 1,2-DCE would appear to be relatively constant. In that event, one might conclude that the degradation rates for DCE and VC are similar, such that VC is neither accumulating nor disappearing from the system relative to DCE.

   Response—The individual data points are not displayed on this figure because each well has approximately 22 points and the effect of showing each point is very confusing. Therefore, the decision was made to summarize the data by displaying the regression lines through the data instead. We believe the text summarizing this graph is accurate as written. The rate of vinyl chloride is tracking with 1,2-DCE concentrations which strongly suggests dechlorination is the primary mechanism by which vinyl chloride is being produced at this site.

6. **p. 9, Sec. 2.2.2.1:** Figures in Appendix C for MW-NASB-069 show that the low-flow sampling in Event 22 detected VC at ~50 micrograms per liter, while the deep diffusion sampler detected only ~5 micrograms per liter, following a sharp decline from a high of ~70 micrograms per liter two rounds previously. The low-flow results do not show a similar decline. The report later notes this discrepancy (p. 10, third bullet), and recommends (sec. 3) that mid-depth and shallow diffusion samplers be installed in this well in order to seek evidence for a vertical shift in the VC contamination. This is well motivated, and should be carried out.

   Response—We agree with this comment.

Appendix B

Laboratory Analytical Data Summary Tables

TABLE B-1 SUMMARY OF GROUNDWATER SAMPLES COLLECTED FROM SITE 9 ON 8 MAY 2003
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			MW-NASB-021	MW-NASB-022	MW-NASB-069			MW-NASB-069 (Dup)		MW-NASB-071
			Diffusion Sample	Diffusion Sample	Diffusion Sample		Ground Water	Diffusion Sample	Ground Water	Diffusion Sample
			Deep Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample	Shallow Diffusion Sample	Low-Flow Sample	Shallow Diffusion Sample	Low-Flow Sample	Deep Diffusion Sample
Compound/Element	**MEG (a)**	**MCL (b)**								
Total VOC	NC	NC	ND	402.6	12.6	3.2	79	6.57	75.77	ND
1,1-Dichloroethane	70	NC	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
1,2-Dichloroethene, Total	70	70	(<2U)	(<2U)	6.2	3.2	31	3.1	29.77	(<2U)
Acetone	NC	NC	5.1J	(<10U)	(<10U)	(<10U)	(<10U)	(<10U)	(<10U)	(<10U)
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
cis-1,2-Dichloroethene	NC	NC	(<2U)	(<2U)	6.2	3.2	30	3.1	29	(<2U)
Ethylbenzene	700	700	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
M-,P-Xylene	NC	NC	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Methyl tert-butyl ether	NC	NC	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Tetrahydrofuran	NC	NC	(<10U)	2.6J	2.8J	(<10U)	(<10U)	2.7J	(<10U)	(<10U)
Toluene	1,400	1,000	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
trans-1,2-Dichloroethene	NC	NC	(<2U)	(<2U)	(<2U)	(<2U)	1J	(<2U)	0.77J	(<2U)
Trichloroethene	5	5	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Trichlorofluoromethane	NC	NC	(<2U)	400	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)
Vinyl Chloride	0.15	2	(<2U)	(<2U)	**3.6**	(<2U)	**48**	**0.77J**	**46**	(<2U)
Xylenes, Total	600	10,000	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)

TABLE B-2 SUMMARY OF GROUNDWATER SAMPLES COLLECTED FROM SITE 9 ON 8 MAY 2003
SEMIVOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8270C

			MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-070	MW-NASB-079
			Ground Water	Ground Water	Ground Water	Ground Water
			Low-Flow Sample	Low-Flow Sample	Low-Flow Sample	Low-Flow Sample
Compound/Element	**MEG (a)**	**MCL (b)**				

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

MW = Monitoring well.
NASB = Naval Air Station Brunswick.

NO SVOC DETECTED

TABLE B-3 SUMMARY OF GROUNDWATER SAMPLES COLLECTED FROM SITE 9 ON 8 MAY 2003
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-070	MW-NASB-079
			Ground Water	Ground Water	Ground Water	Ground Water
			Low-Flow Sample	Low-Flow Sample	Low-Flow Sample	Low-Flow Sample
Compound/Element	**MEG (a)**	**MCL (b)**				
Aluminum	1,430	200	55J	(<200U)	(<200U)	**250**
Antimony	2.8	6	(<20U)	(<20U)	(<20U)	**9.3J**
Barium	1,500	2,000	(<200U)	(<200U)	(<200U)	320
Beryllium	NC	4	(<5U)	(<5U)	(<5U)	1.9J
Cadmium	5	5	(<5U)	(<5U)	(<5U)	1.5J
Calcium	NC	NC	5,600	5,500	11,000	29,000
Chromium	100	100	(<10U)	(<10U)	3.6J	9.8J
Cobalt	NC	NC	(<50U)	(<50U)	(<50U)	11J
Iron	NC	300	210	230	64J	**26,000**
Magnesium	NC	NC	2,400J	2,400J	1,100J	2,200J
Manganese	200	50	**360**	**360**	**260**	**130**
Nickel	100	100	(<40U)	(<40U)	(<40U)	8.4J
Potassium	NC	NC	1,400J	1,400J	(<2,500U)	3,300
Sodium	NC	NC	55,000	54,000	7,500	5,600
Vanadium	NC	NC	(<50U)	(<50U)	(<50U)	10J
Zinc	NC	5,000	22	11J	(<20U)	17J

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
MW = Monitoring well.
NASB = Naval Air Station Brunswick.
Units are micrograms per liter (µg/L).
J = Estimated concentration.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Concentrations highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE B-4 SUMMARY OF SURFACE WATER SAMPLES COLLECTED FROM SITE 9 ON 5 MAY 2003
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SW-010	SW-010 (Dup)
			Surface water	Surface Water
			Grab Sample	Grab Sample
Compound/Element	SWQC (a)	NWQC (b)		
Total VOC	NC	NC	ND	ND
Vinyl Chloride	NC	NC	(<2U)	(<2U)

(a) SWQC Maine Statewide Water Quality Criteria compared to Criteria Maximum Concentration (CMC). If not CMC value, then it is compared to Criteria Continuous Concentration (CCC).
(b) NWQC National Recommended Water Quality Criteria Correction, EPA Office of Water, EPA 822-799-001, April 1999.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include common laboratory contaminants (Acetone or Methylene Chloride) or VOCs detected in the Trip Blank or Method Blank
SW = Surface water sample.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those compounds detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE B-5 SUMMARY OF LEACHATE STATION SEEP SAMPLES COLLECTED FROM SITE 9 ON 5 MAY 2003
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			LT-901	LT-901 (Dup)
			Leachate	Leachate
			Grab Sample	Grab Sample
Compound/Element	**MEG (a)**	**MCL (b)**		
Total VOC	NC	NC	ND	ND
Vinyl Chloride	NC	NC	(<2U)	(<2U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include common laboratory contaminants (Acetone or Methylene Chloride) or VOCs detected in the Trip Blank or Method Blank.
LT = Leachate sample.
DUP = Duplicate sample.
U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration.
Only those analytes detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE B-6 SUMMARY OF SEDIMENT SAMPLES COLLECTED FROM SITE 9 ON 5 MAY 2003
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SED-10	SED-10 (Dup)
			Sediment	Sediment
			Grab Sample	Grab Sample
Compound/Element	**MEG (a)**	**MCL (b)**		
Total VOC	NC	NC	ND	ND
Vinyl Chloride	NC	NC	(<5.8U)	(<5.4U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/Kg).
Total VOC calculation does not include common laboratory contaminants (Acetone or Methylene Chloride) or VOCs detected in the Trip Blank or Method Blank.
SED = Sediment sample.
DUP = Duplicate sample.
U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration.
Only those analytes detected in at least one of the samples are shown on this table.

TABLE B-7 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM SITE 9 BETWEEN 22 APRIL AND 8 MAY 2003
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			QD-002	QS-002	QS-003	QS-004	QS-011	QT-03	QT-04	QT-05
			Source Water Blank	Rinsate Blank	Rinsate Blank	Rinsate Blank	Rinsate Blank	Trip Blank	Trip Blank	Trip Blank
Compound/Element	**MEG (a)**	**MCL (b)**								
Total VOC	NC	NC	ND	0.51	ND	ND	2.74	ND	5.6	ND
Acetone	NC	NC	(<10U)	8.5J	9.2J	10	39	(<10U)	(<50U)	(<10U)
Benzene	NC	NC	(<1U)	(<1U)	(<1U)	(<1U)	2	(<1U)	(<5U)	(<1U)
M-,P-Xylene	NC	NC	(<2U)	(<2U)	(<2U)	(<2U)	0.74J	(<2U)	(<5U)	(<2U)
Methylene Chloride	NC	NC	(<5U)	1.8J	1.7J	1.7J	0.81J	(<5U)	(<25U)	(<5U)
Toluene	NC	NC	(<2U)	0.51J	(<2U)	(<2U)	(<2U)	(<2U)	5.6	(<2U)
Vinyl Chloride	NC	NC	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)	(<5U)	(<2U)
Xylenes, Total	NC	NC	(<2U)	(<2U)	(<2U)	(<2U)	0.74	(<2U)	(<5U)	(<2U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include common laboratory contaminants (Acetone or Methylene Chloride) or VOCs detected in the Trip Blank or Method Blank.
EP = Eastern Plume.
QT = Trip blank.
QS = Equipment rinsate blank.
QD =Source water blank.
U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration.
B = Compound detected in associated method blank.
ND = Not detected.
Only those analytes detected in at least one of the samples and vinyl chloride are shown on this table.

Appendix C

Temporal Trend Graphs

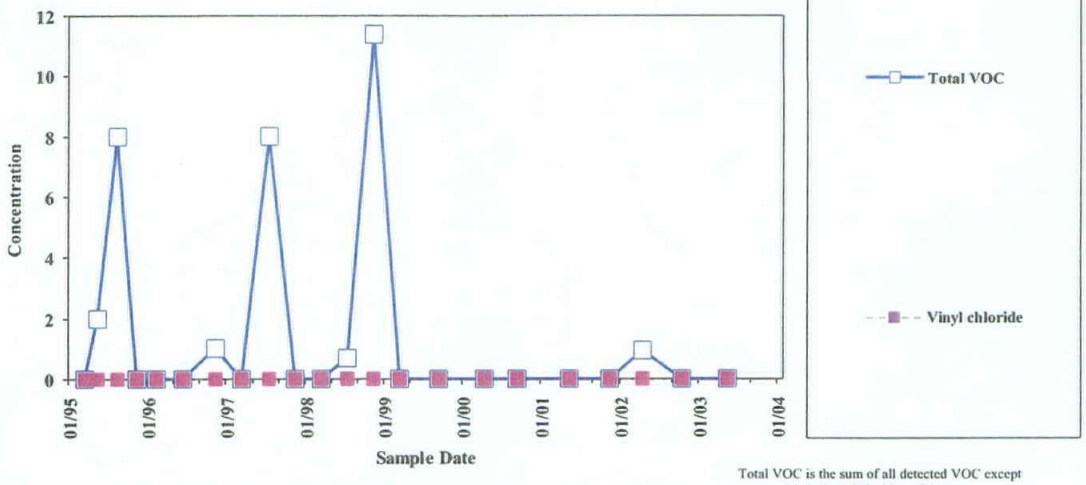
Sample Location:

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

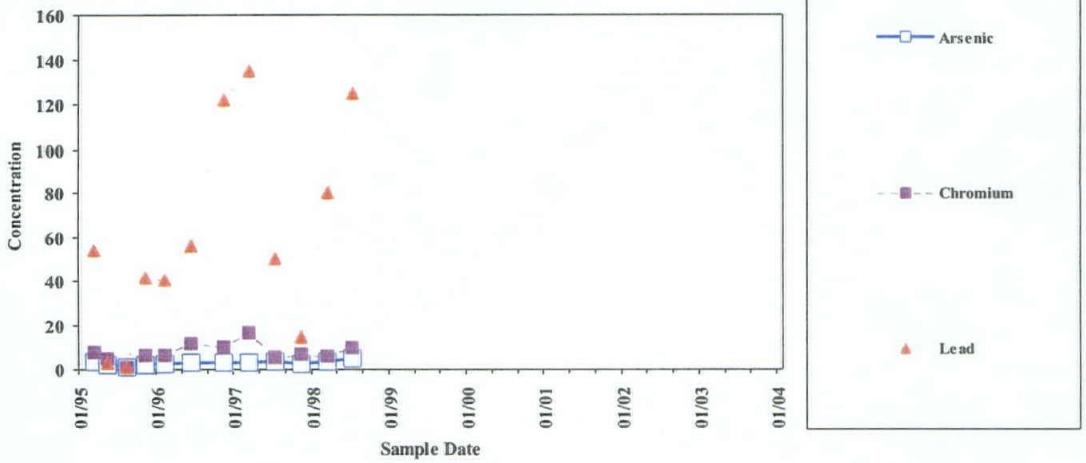
Sample Location:

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.

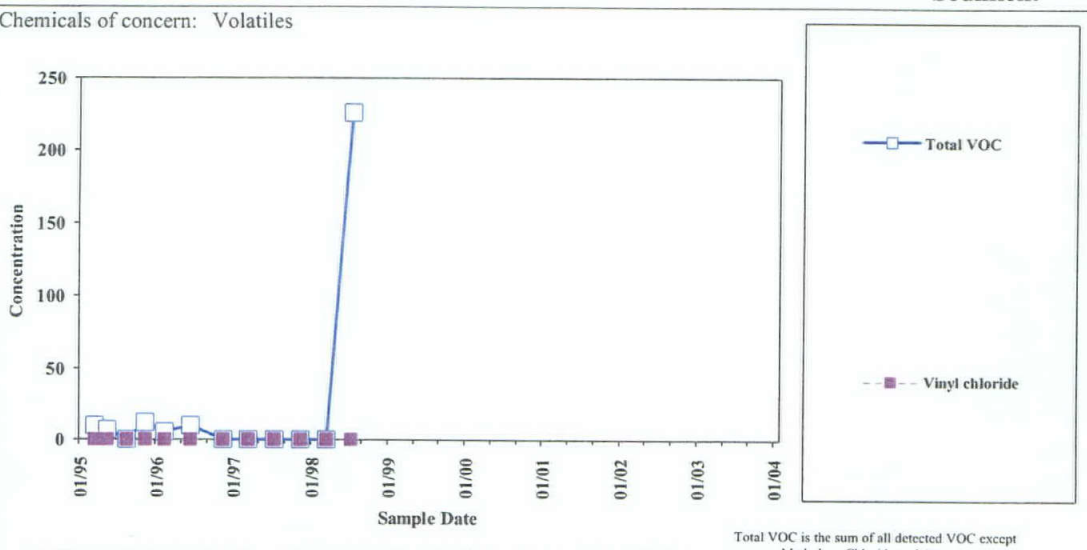
Sample concentration units: mg/Kg

Sample Location:

LT-901

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

Figure 3 of 77

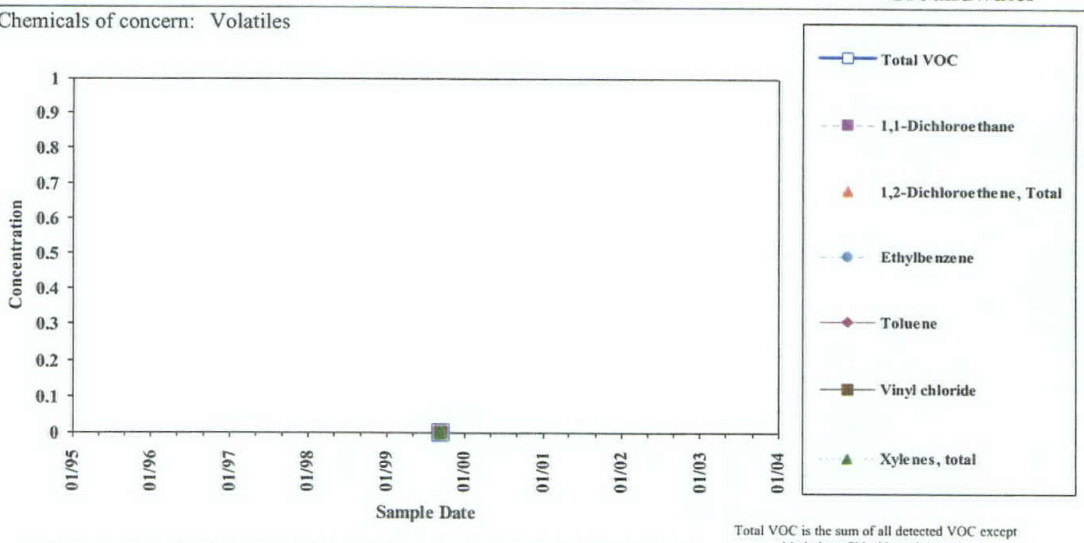
Sample Location:

MW-NASB-008

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

Figure 4 of 77

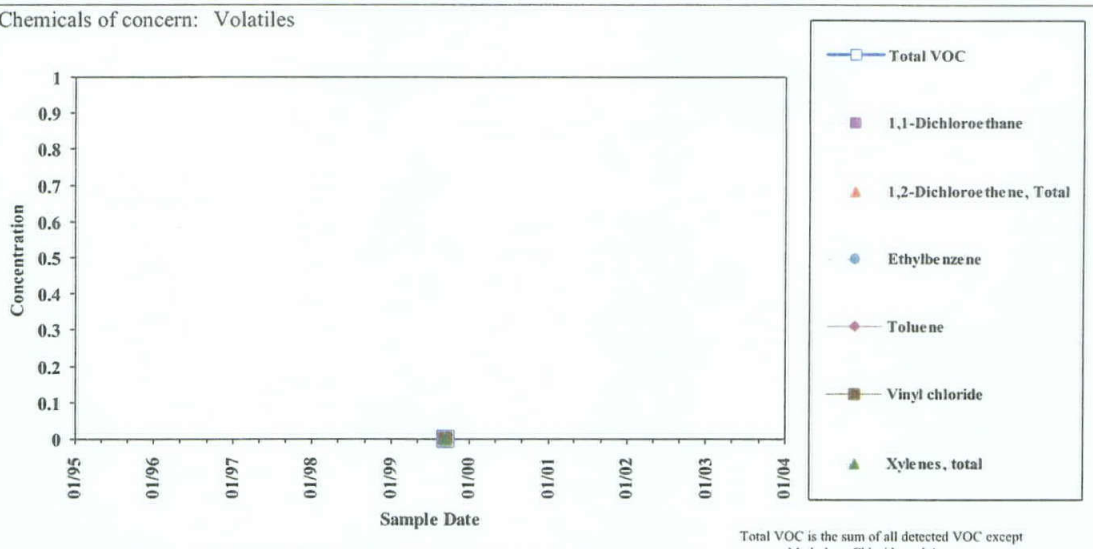
Sample Location:

MW-NASB-009

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

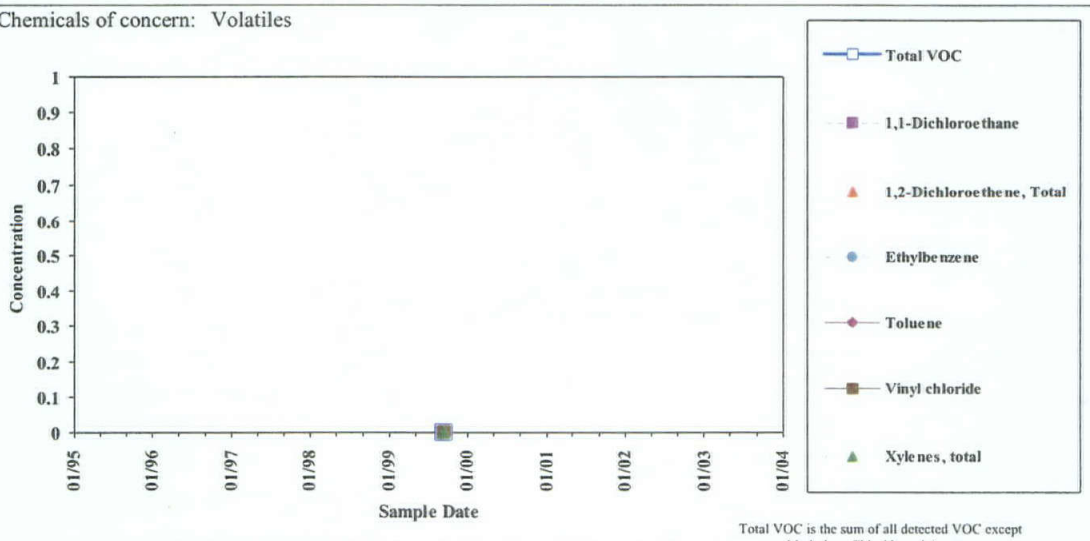
Sample Location:

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

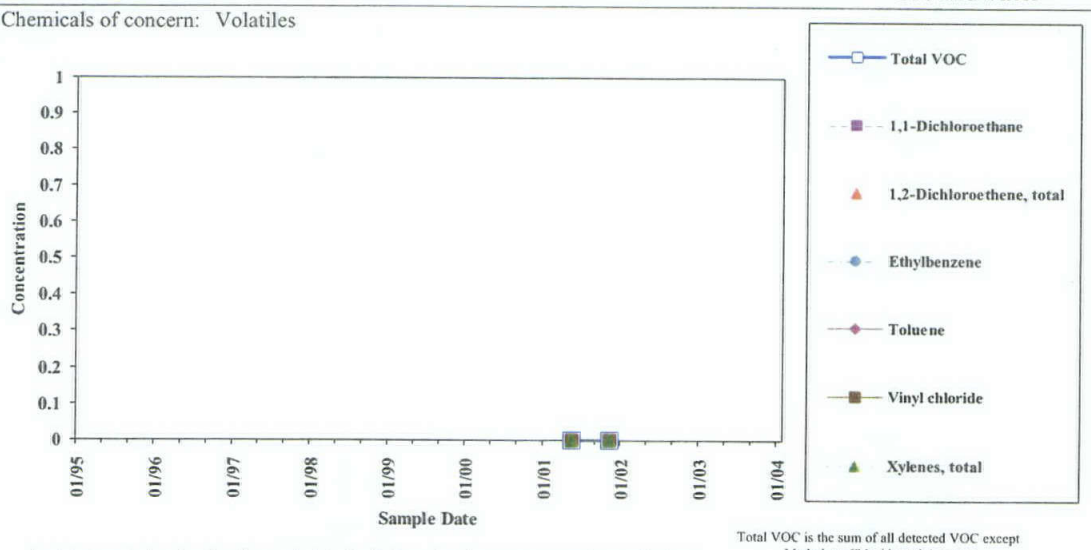
Sample Location:

MW-NASB-021

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

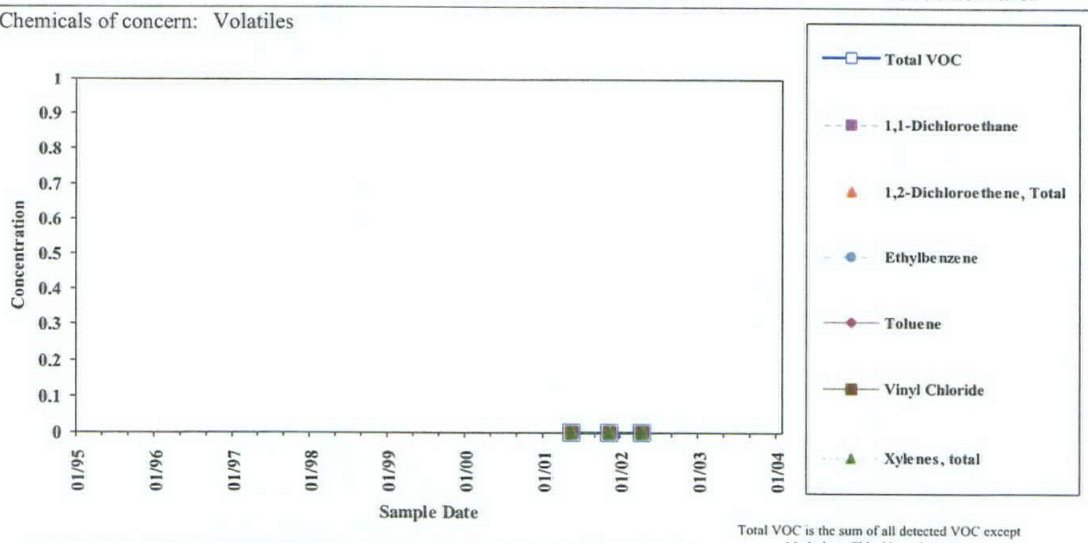
Sample Location:

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

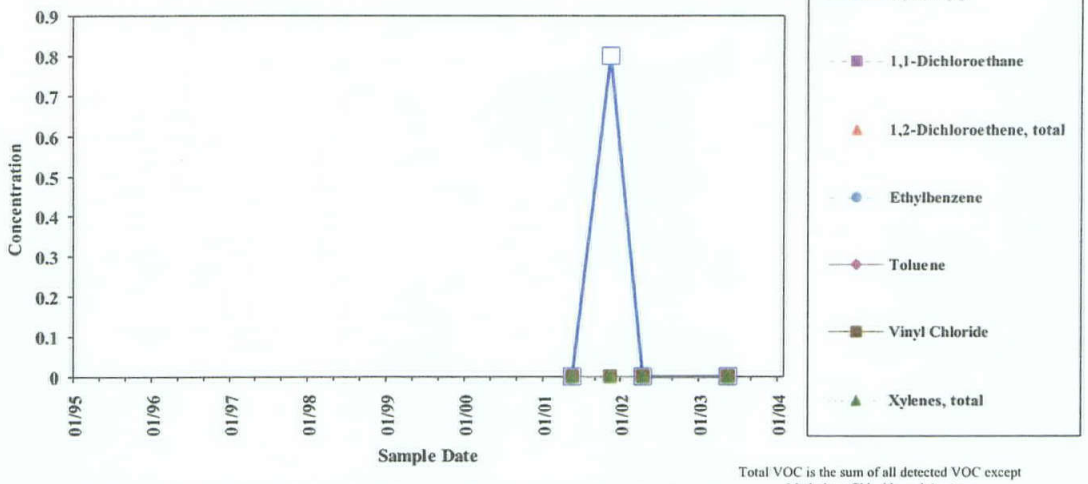
Sample Location:

MW-NASB-021

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

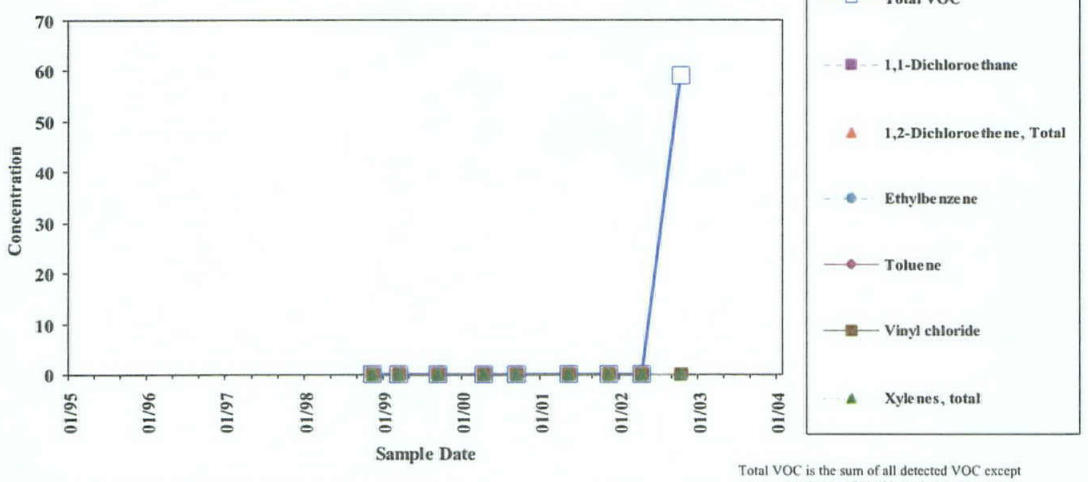
Sample Location:

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

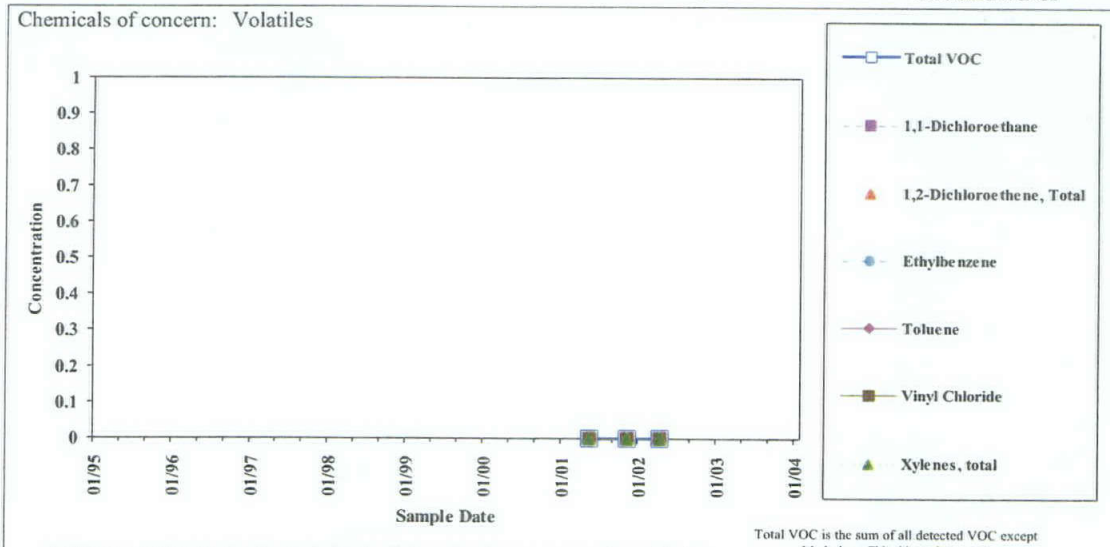
Sample Location:

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

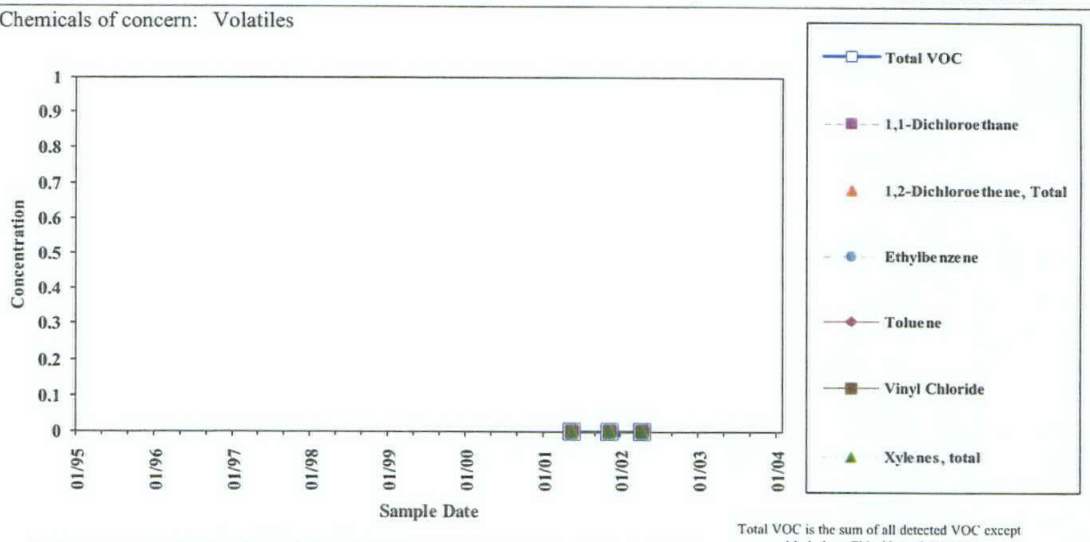
Sample Location:

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.

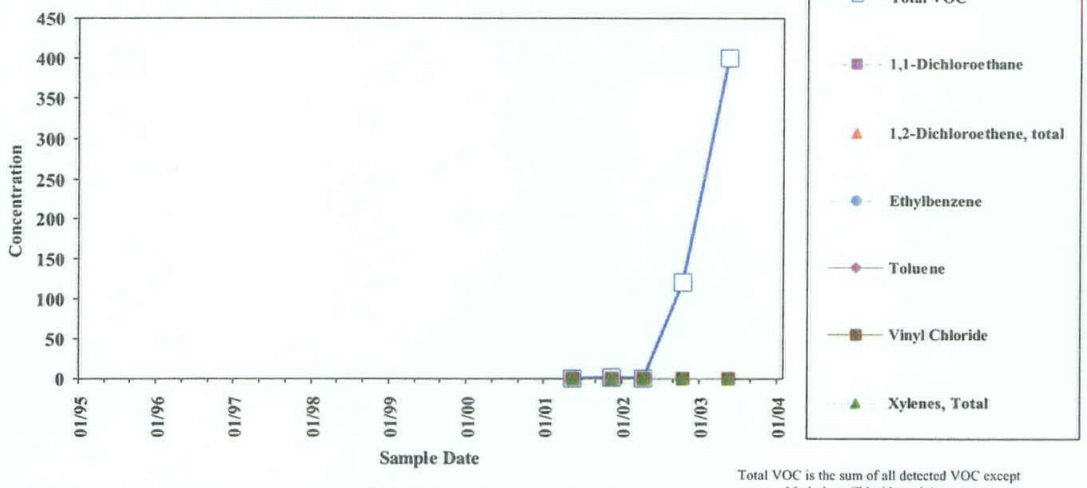
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

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.

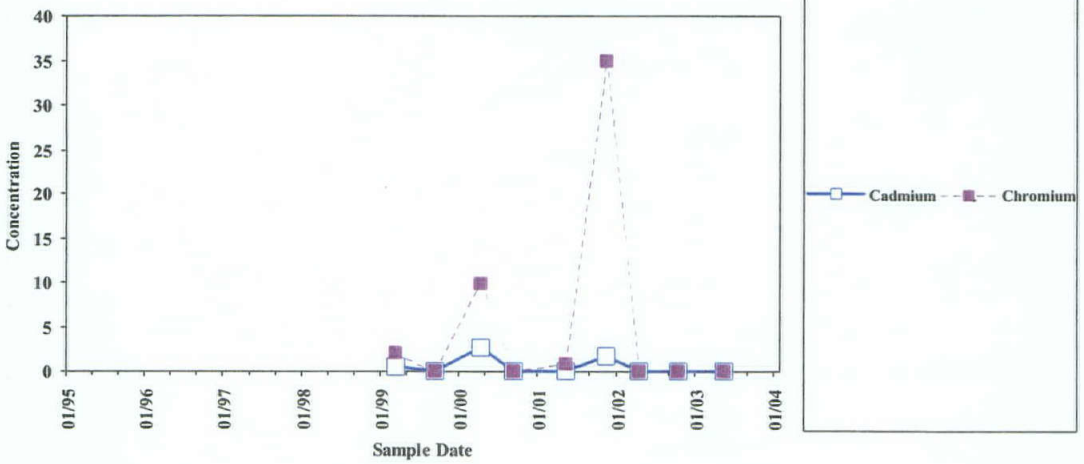
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

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

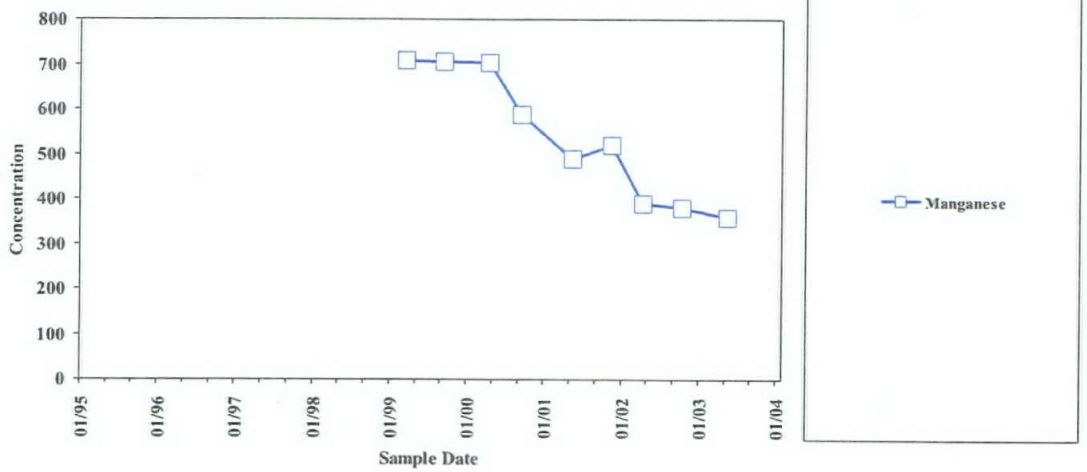
Sample Location:

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

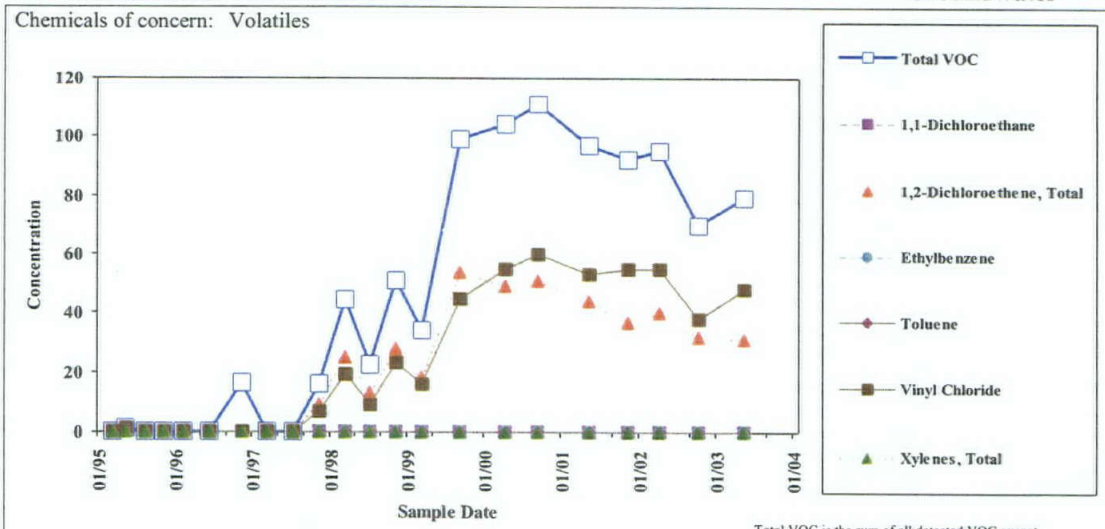
Sample Location:

MW-NASB-069

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.

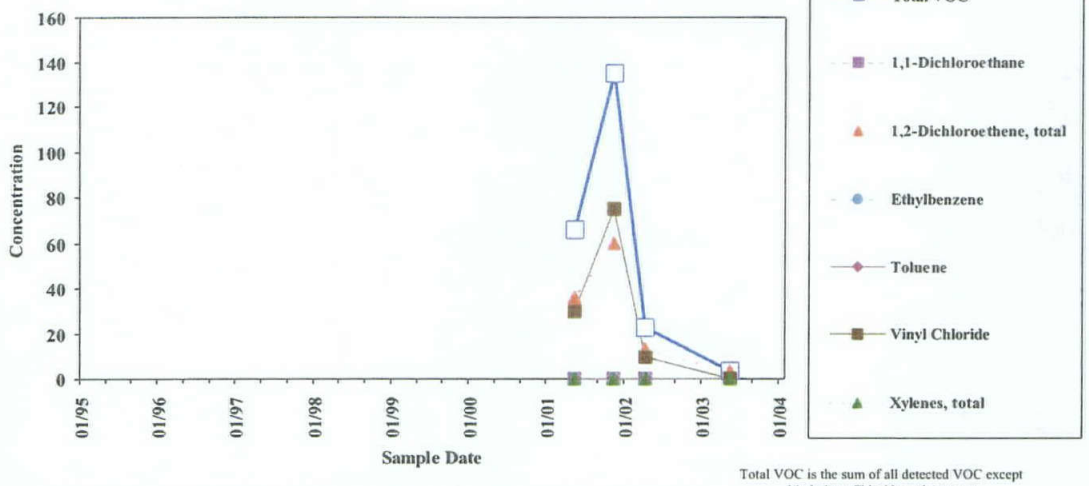
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

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.

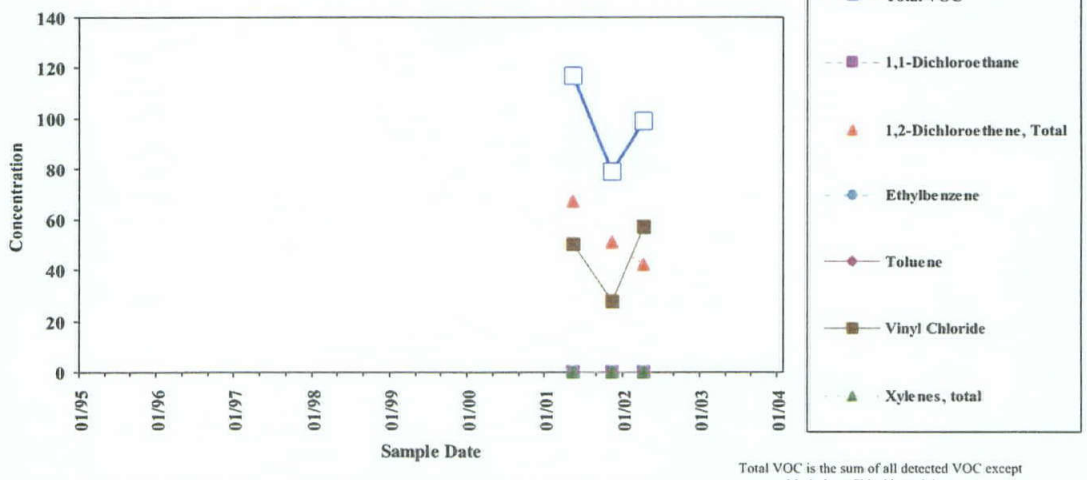
Sample concentration units: µg/L

Figure 17 of 77

Sample Location:

MW-NASB-069 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

Figure 18 of 77

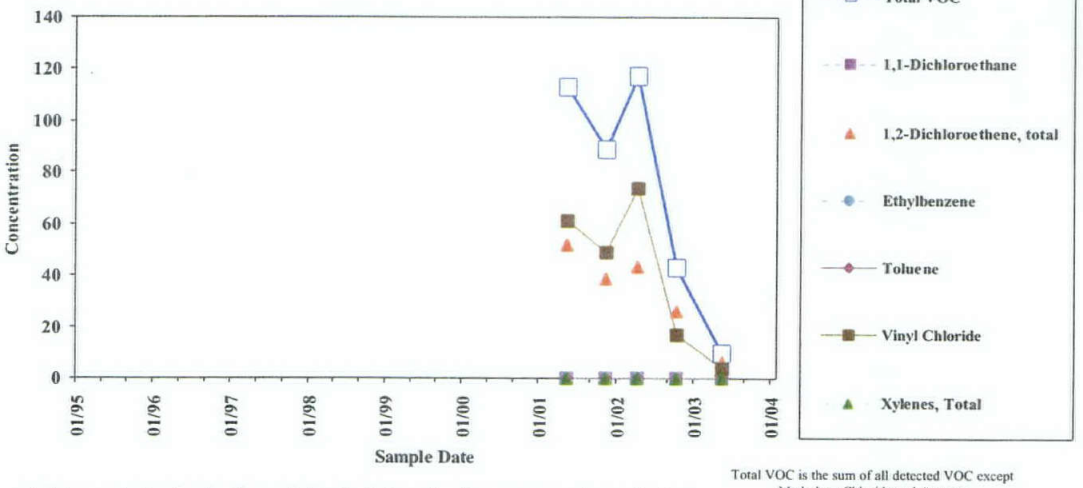
Sample Location:

MW-NASB-069

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

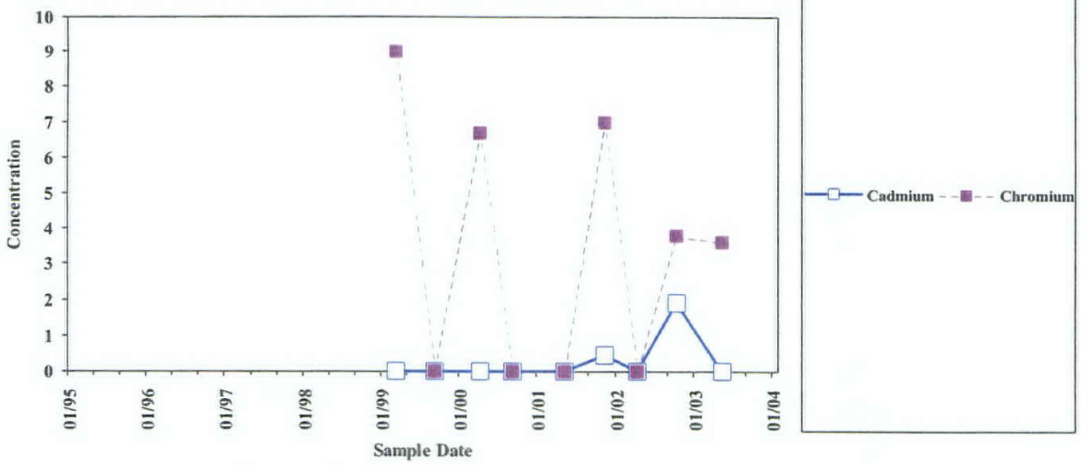
Sample Location:

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

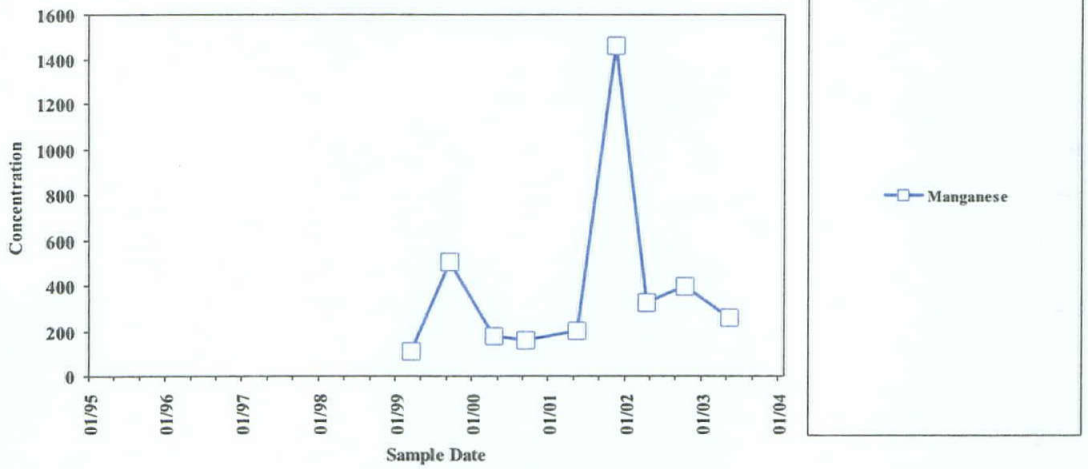
Sample Location:

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

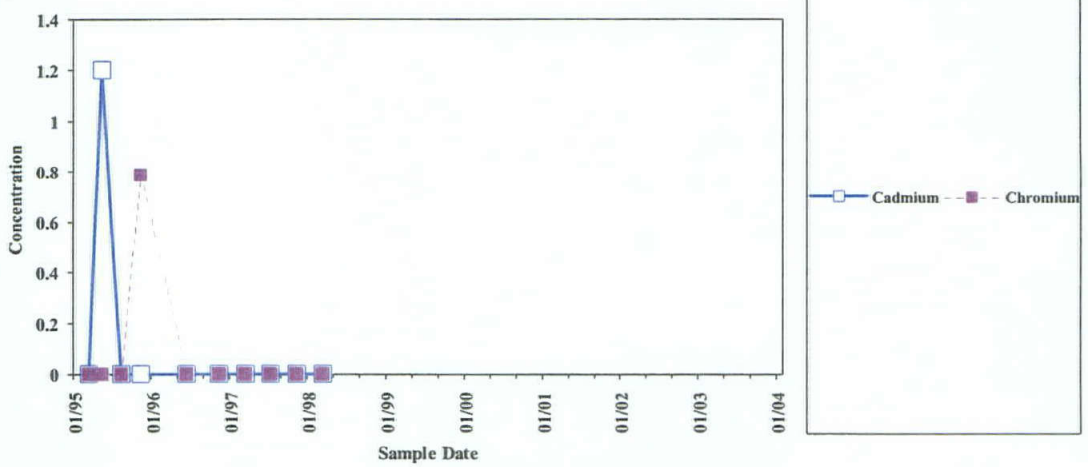
Sample Location:

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

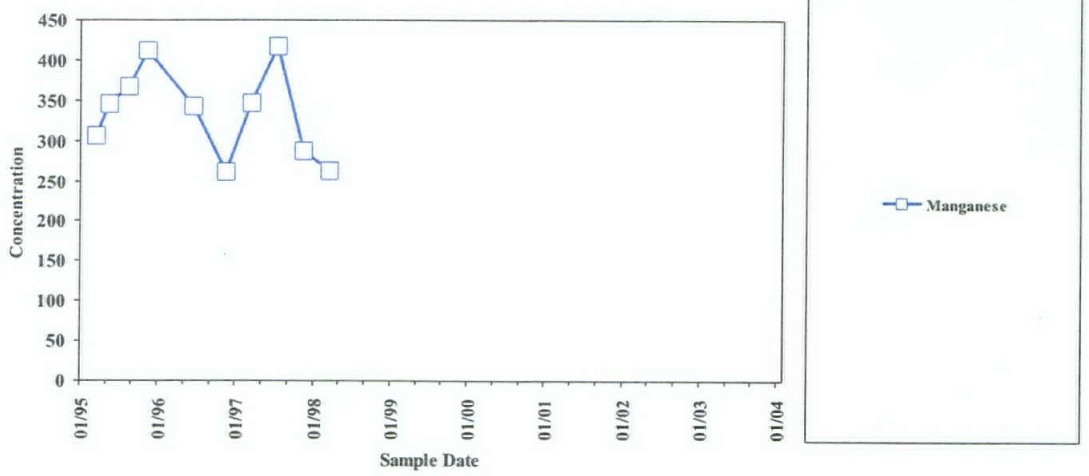
Sample Location:

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

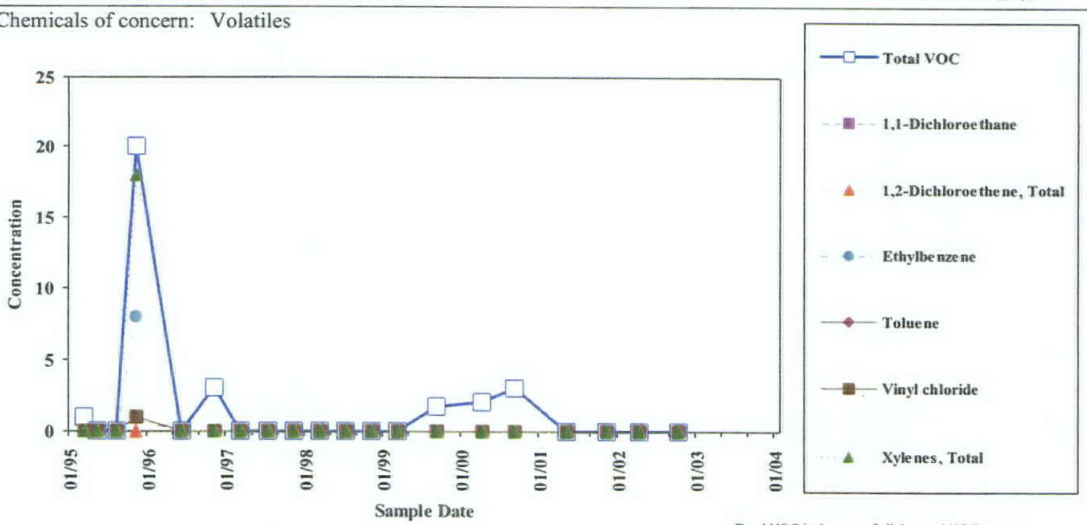
Sample Location:

MW-NASB-071

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.

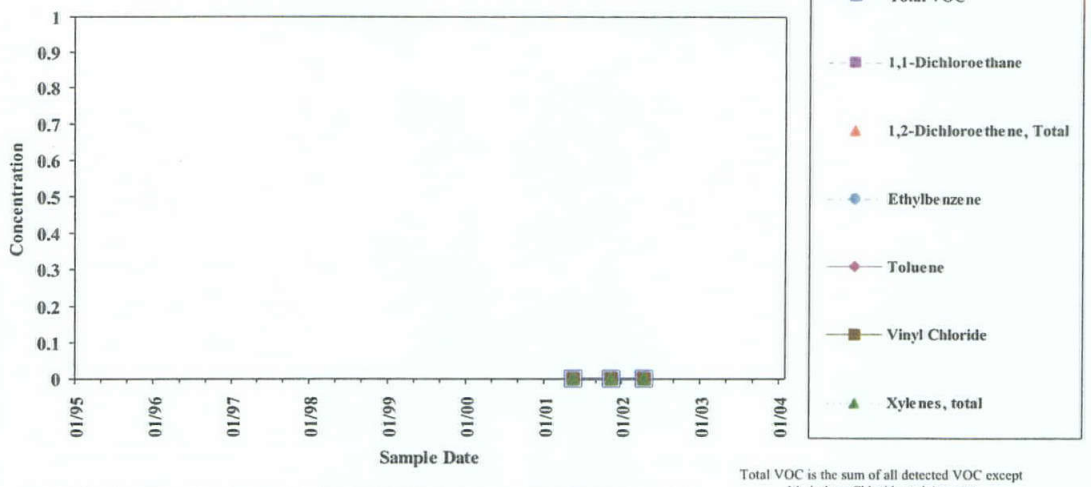
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

Sample Location:

MW-NASB-071 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.

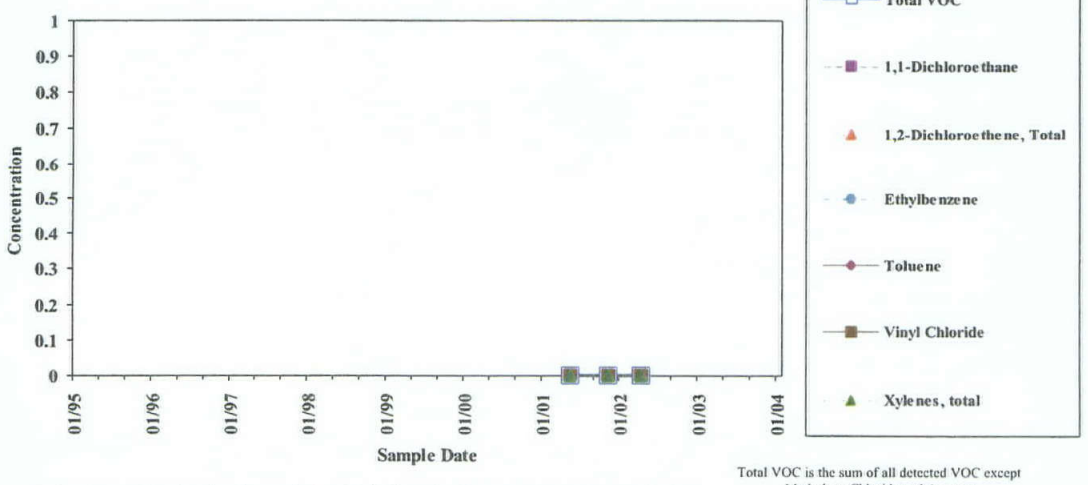
Sample concentration units: µg/L

Figure 25 of 77

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.

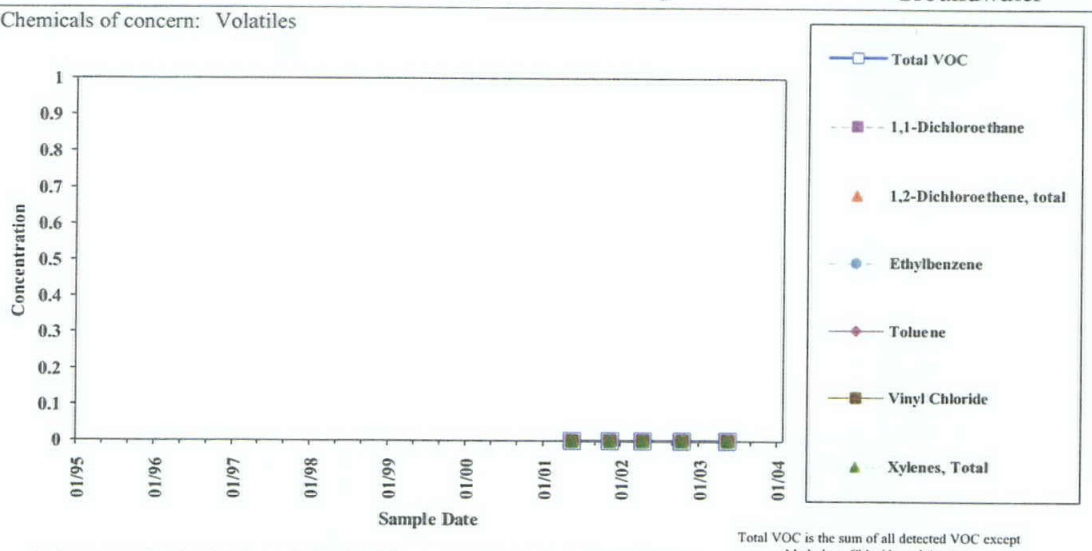
Sample concentration units: µg/L

Figure 26 of 77

Sample Location:

MW-NASB-071 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.

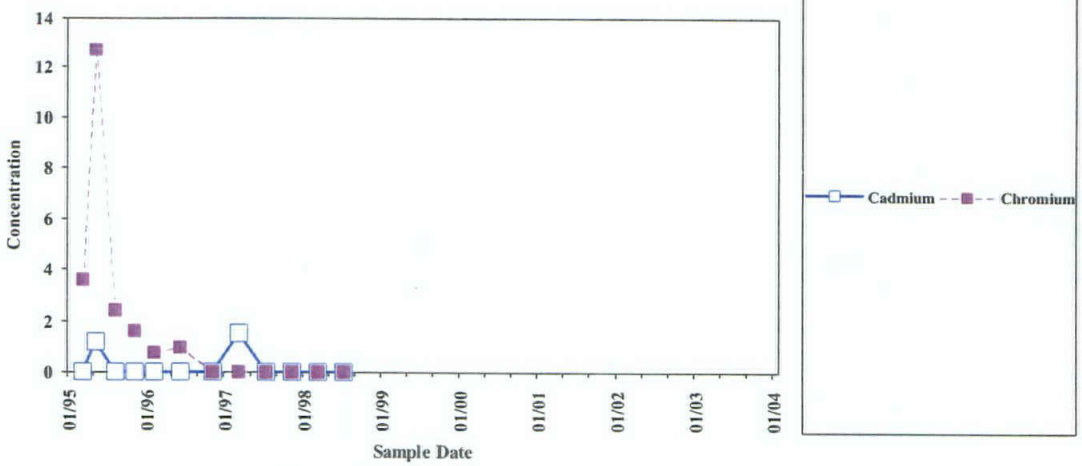
Sample concentration units: µg/L

Figure 27 of 77

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

Figure 28 of 77

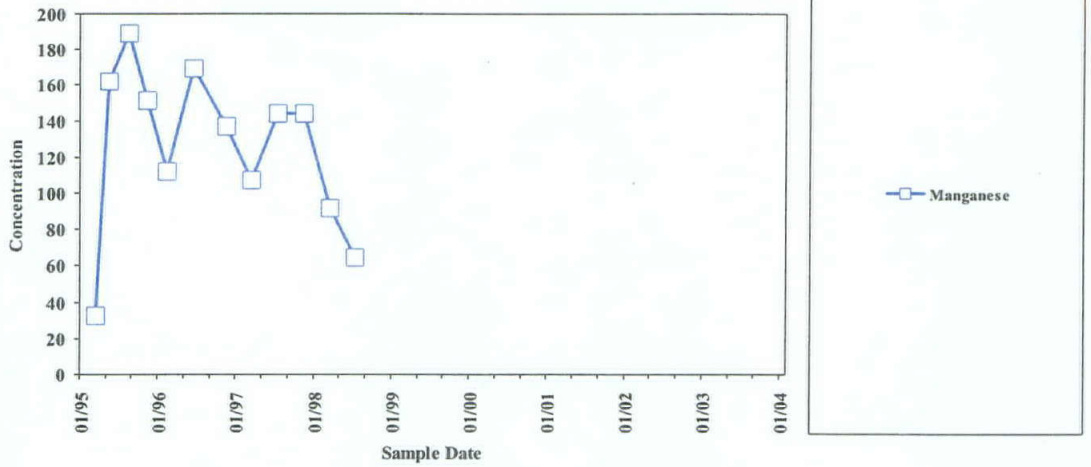
Sample Location:

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

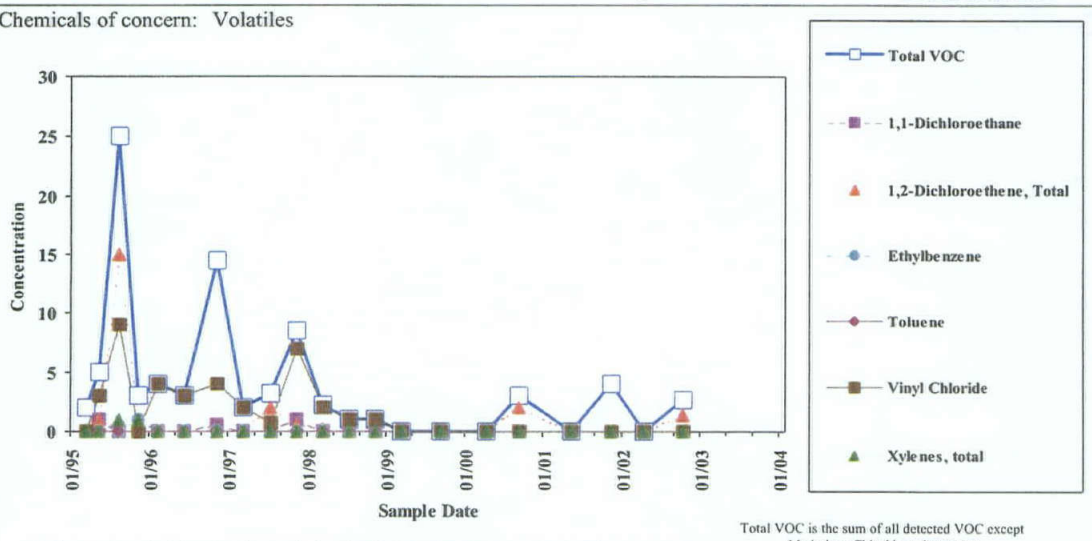
Sample Location:

MW-NASB-072

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.

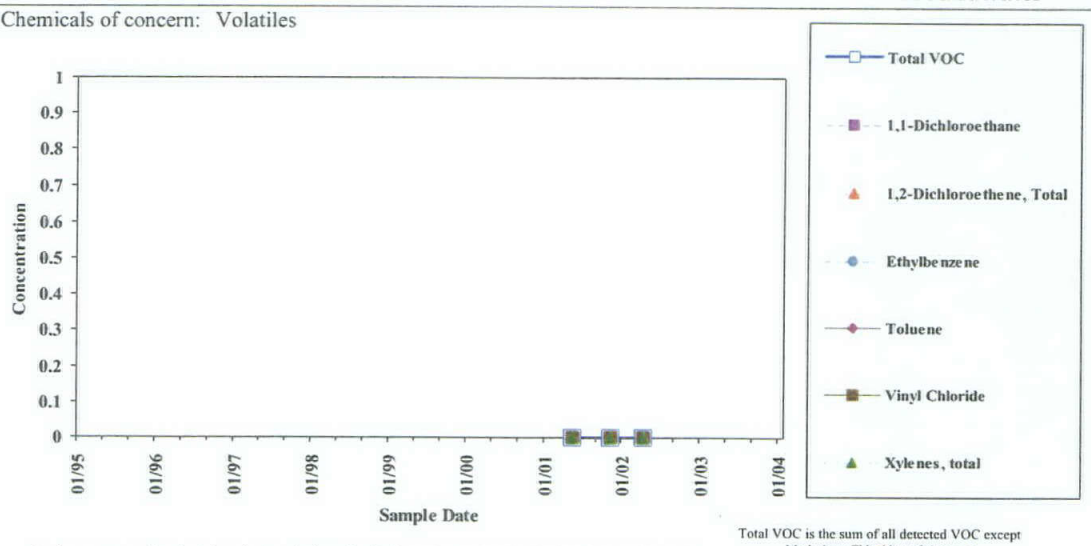
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

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.

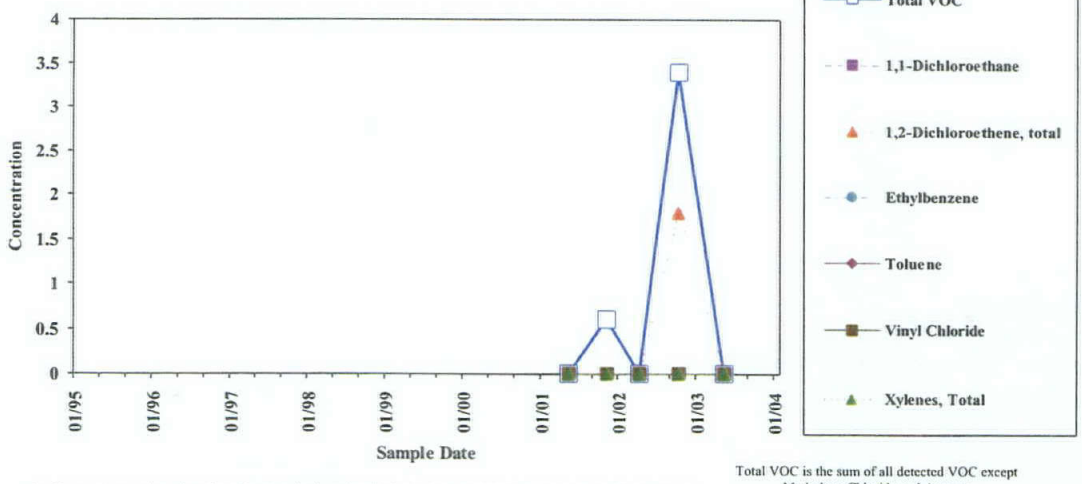
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

Sample Location:

MW-NASB-072 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

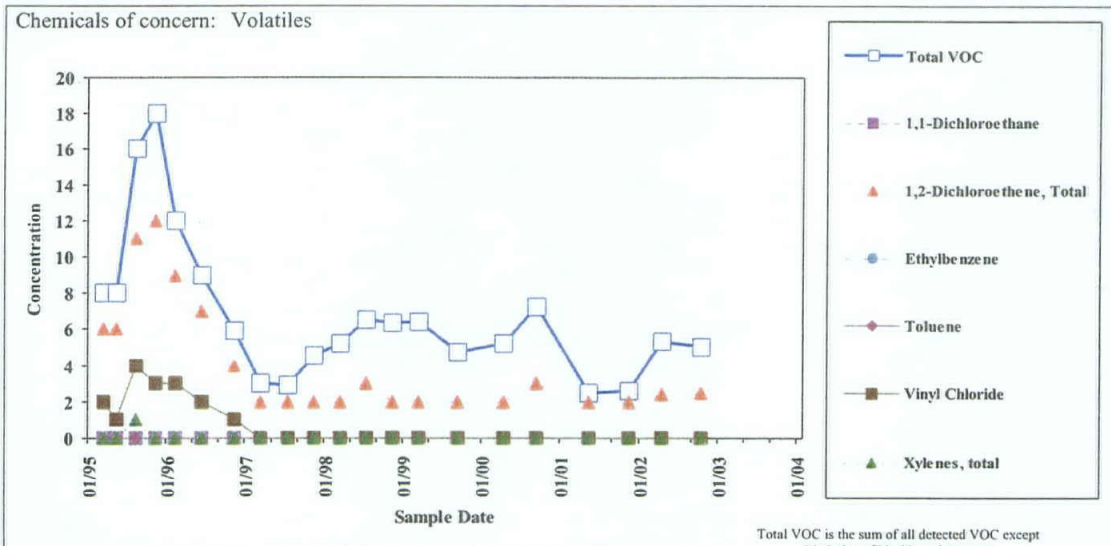
Sample Location:

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

Figure 33 of 77

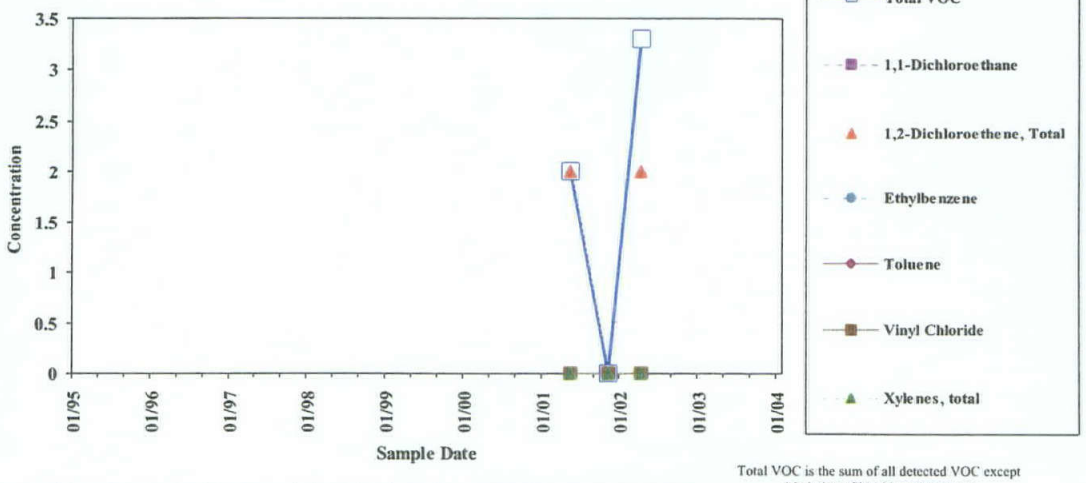
Sample Location:

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.

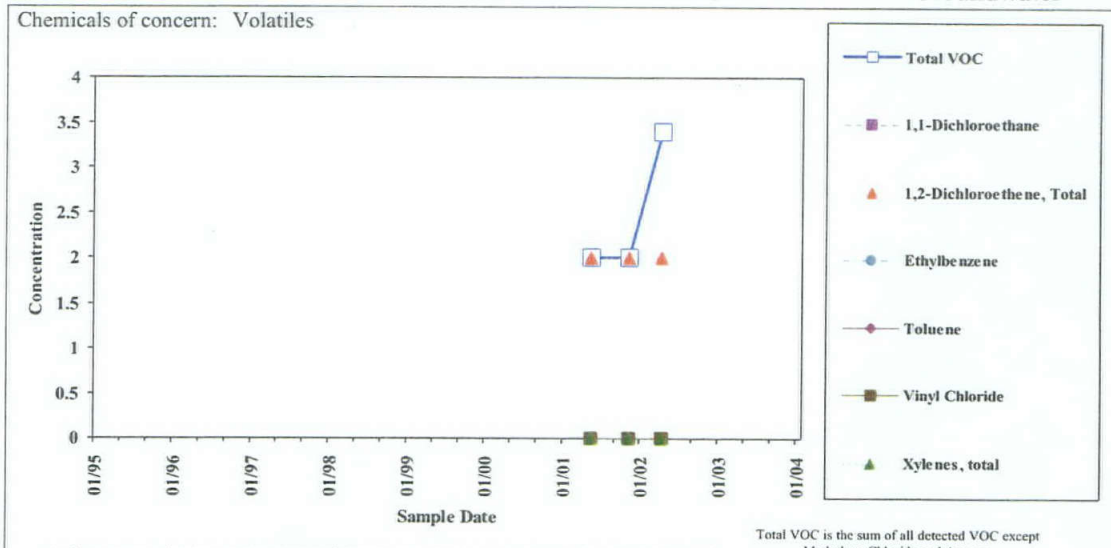
Sample concentration units: µg/L

Figure 34 of 77

Sample Location:

MW-NASB-074 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.

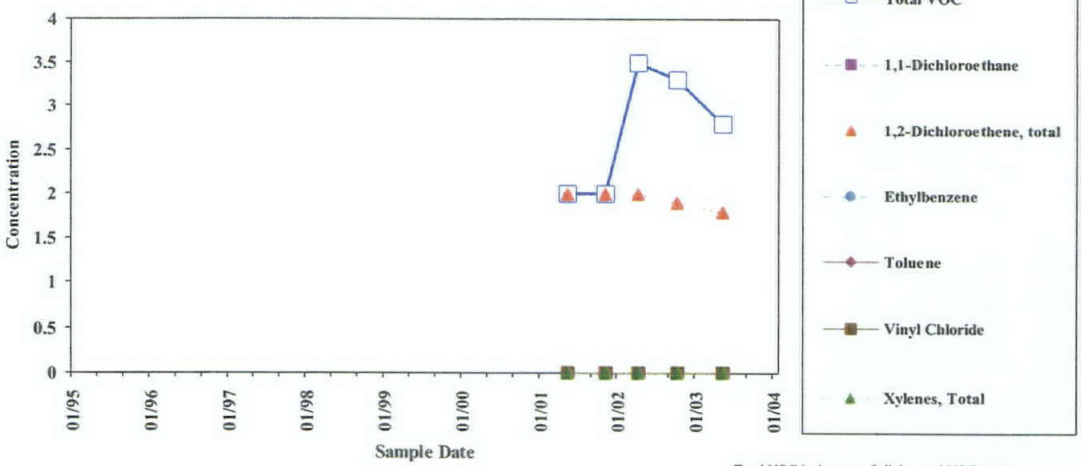
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

Sample Location:

MW-NASB-074 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

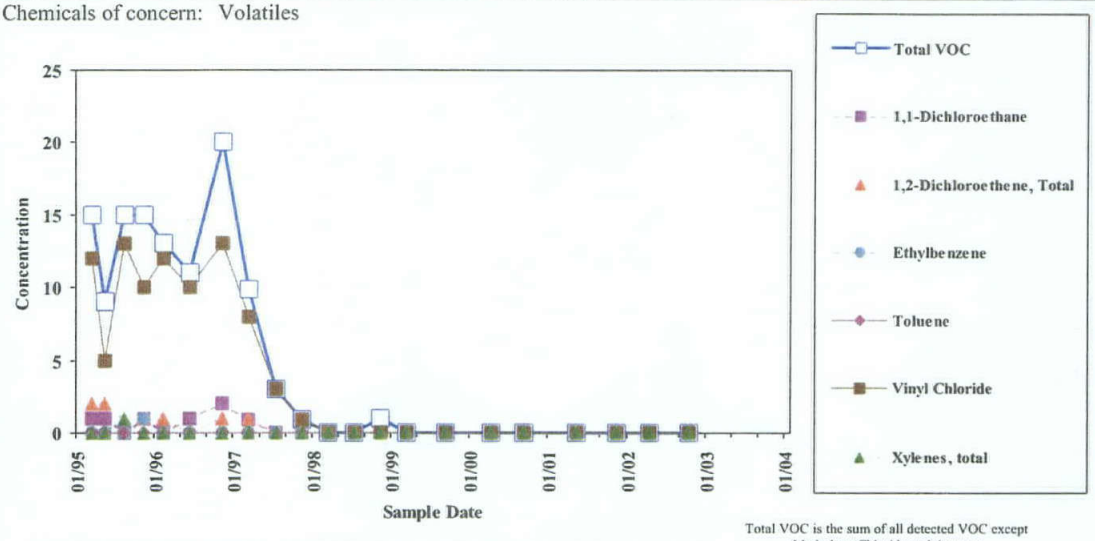
Sample Location:

MW-NASB-075

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

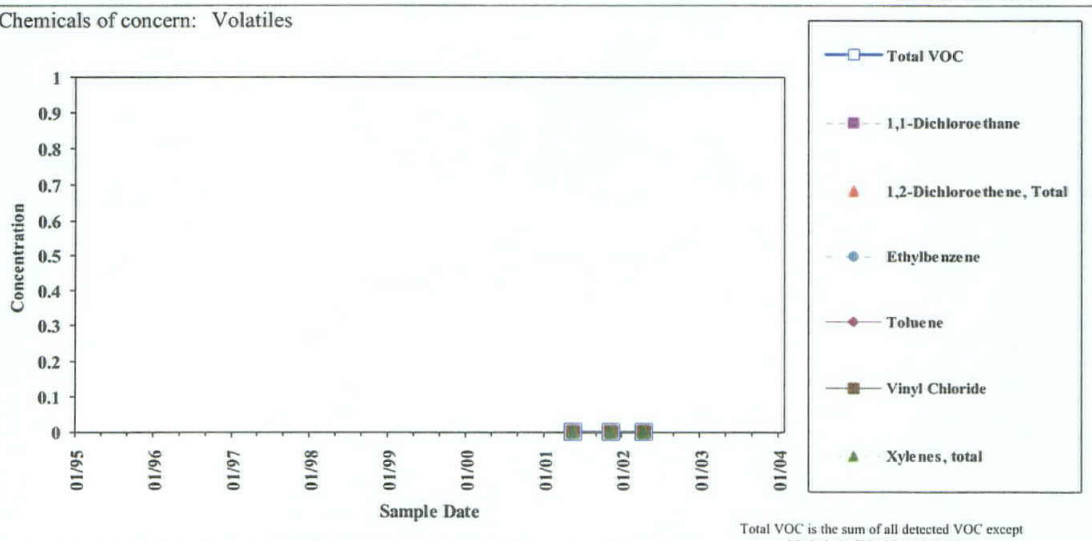
Sample Location:

MW-NASB-075

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.

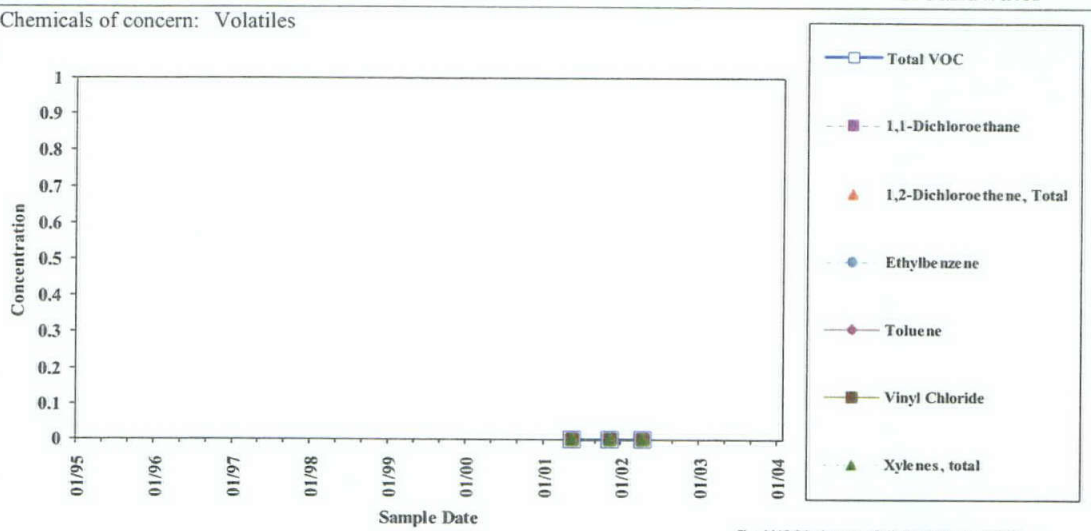
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

Sample Location:

MW-NASB-075 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.

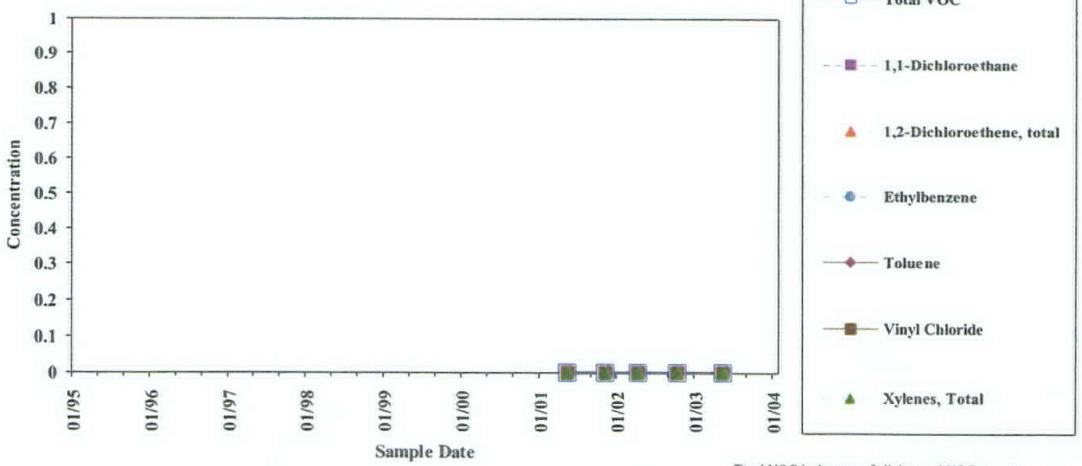
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

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

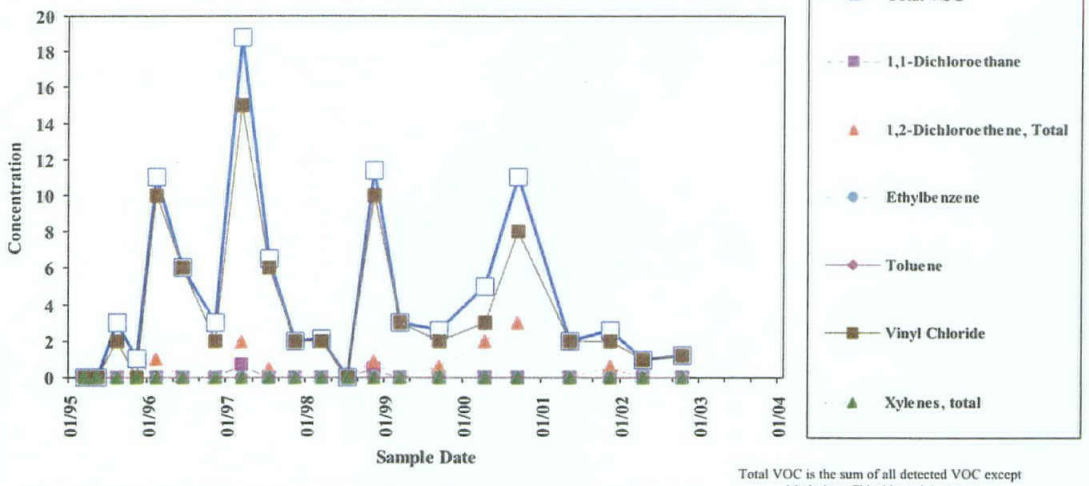
Sample Location:

MW-NASB-076

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

Figure 41 of 77

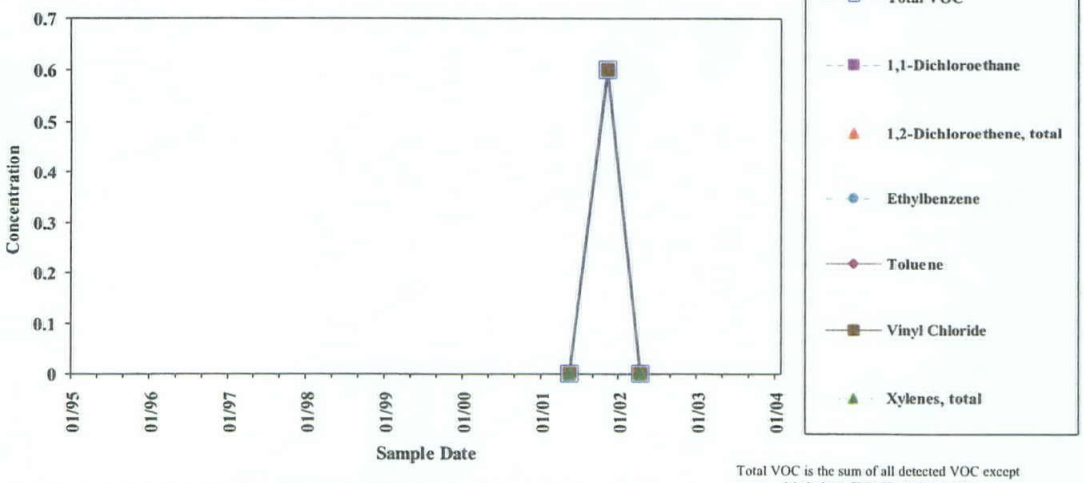
Sample Location:

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.

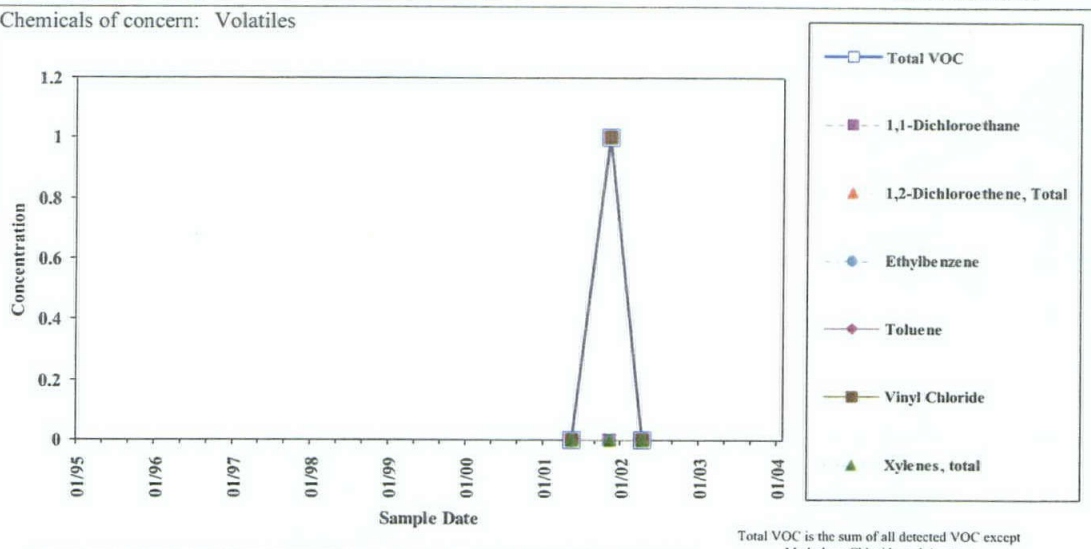
Sample concentration units: µg/L

Figure 42 of 77

Sample Location:

MW-NASB-076 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.

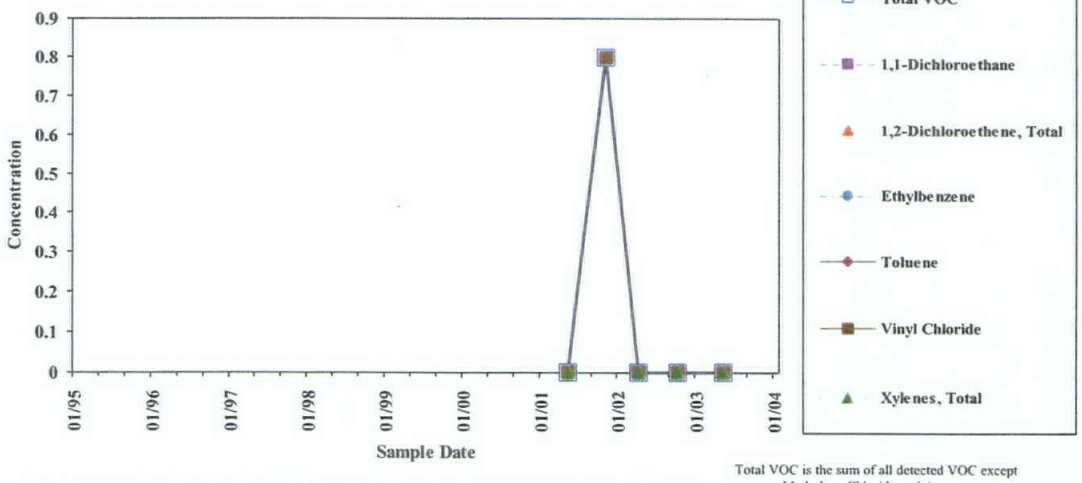
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

Sample Location:

MW-NASB-076 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

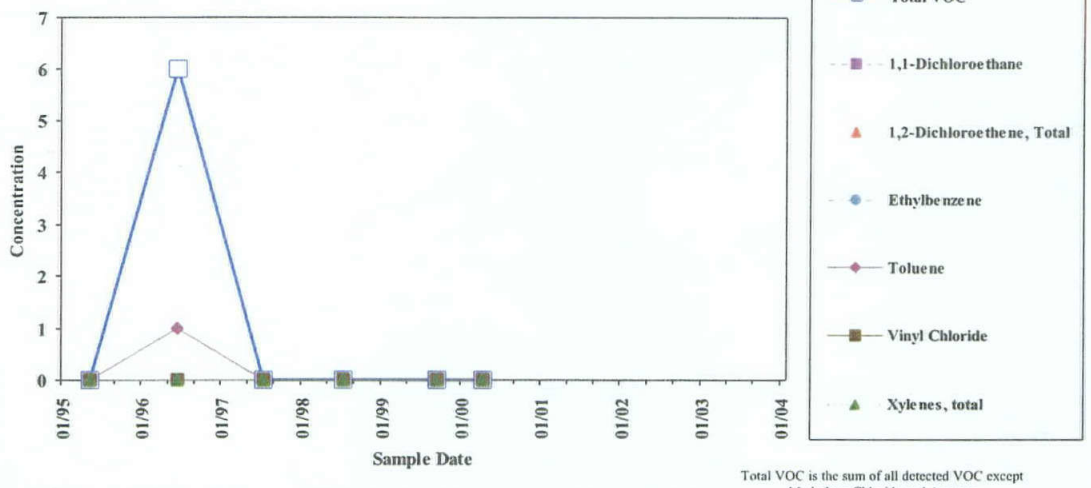
Sample Location:

MW-NASB-077

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

Figure 45 of 77

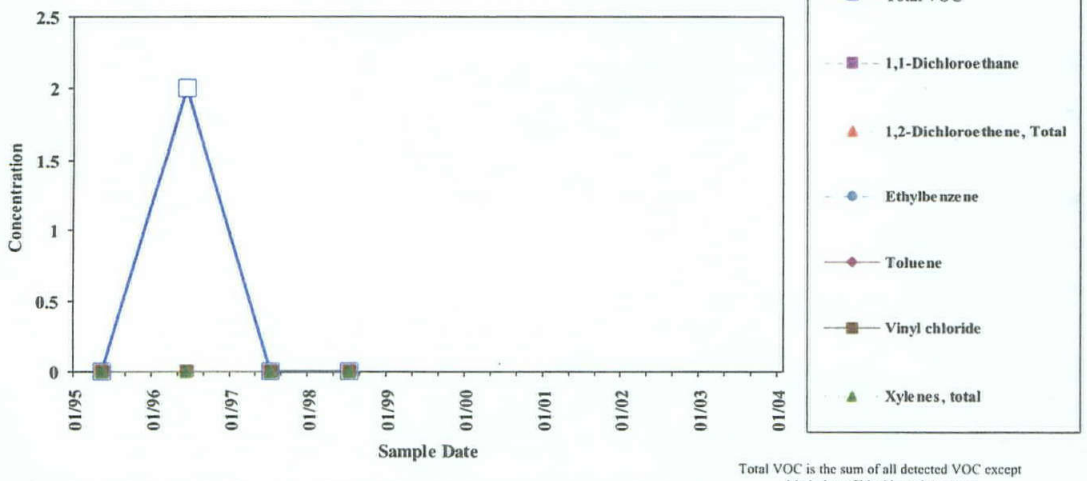
Sample Location:

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

Figure 46 of 77

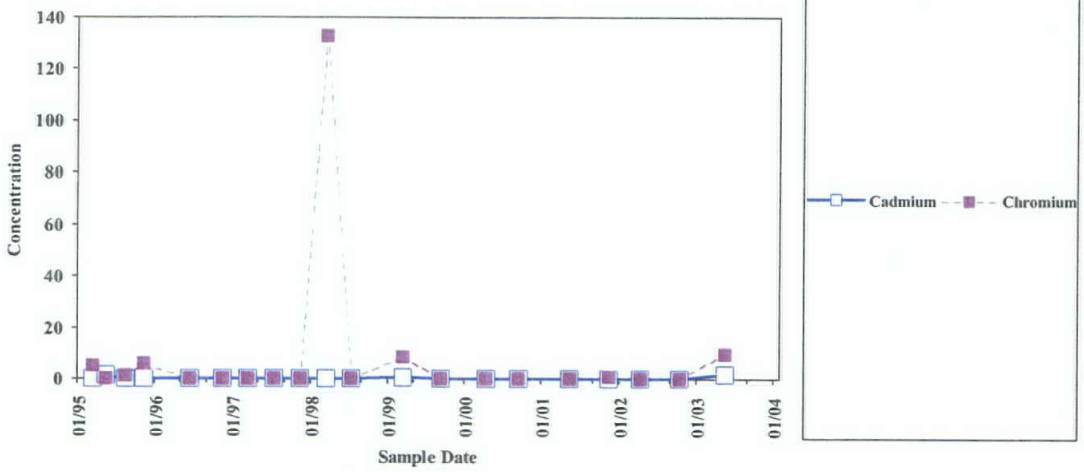
Sample Location:

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

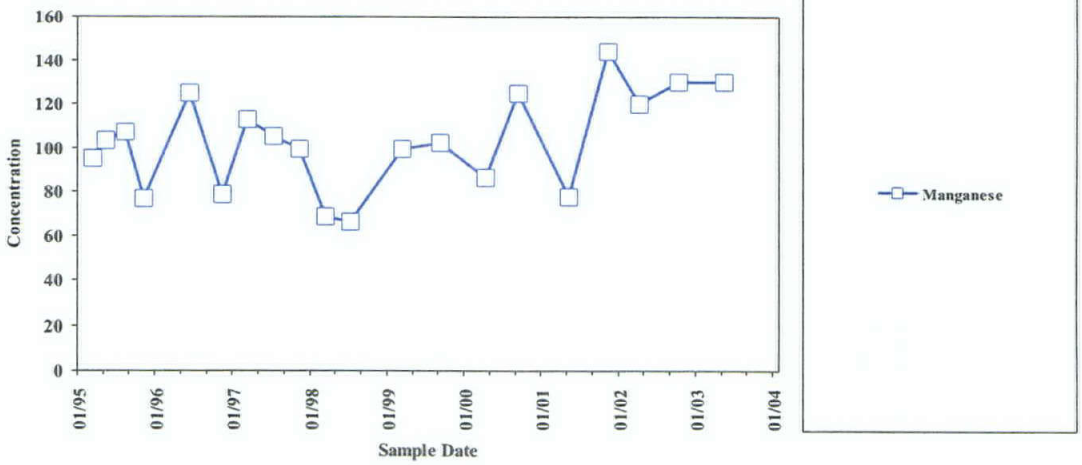
Sample Location:

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

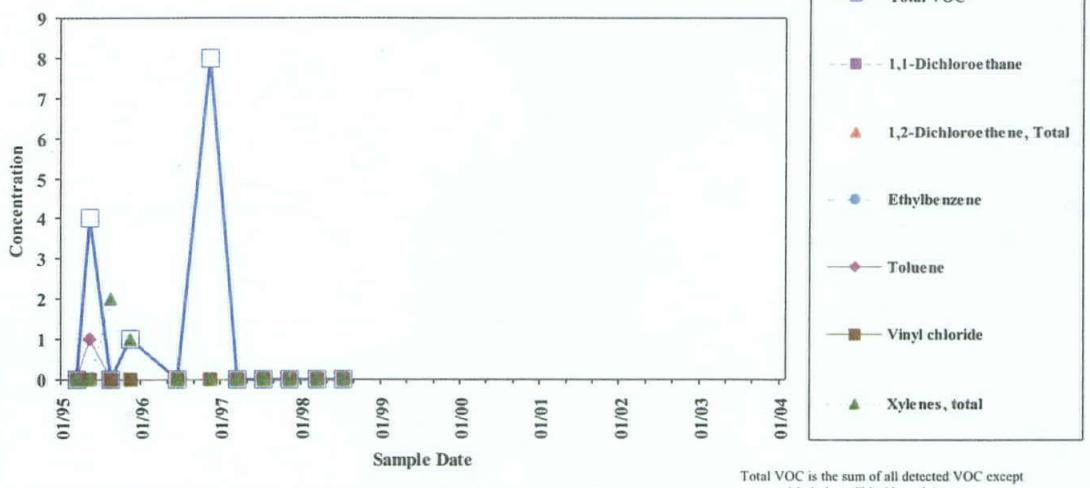
Sample Location:

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

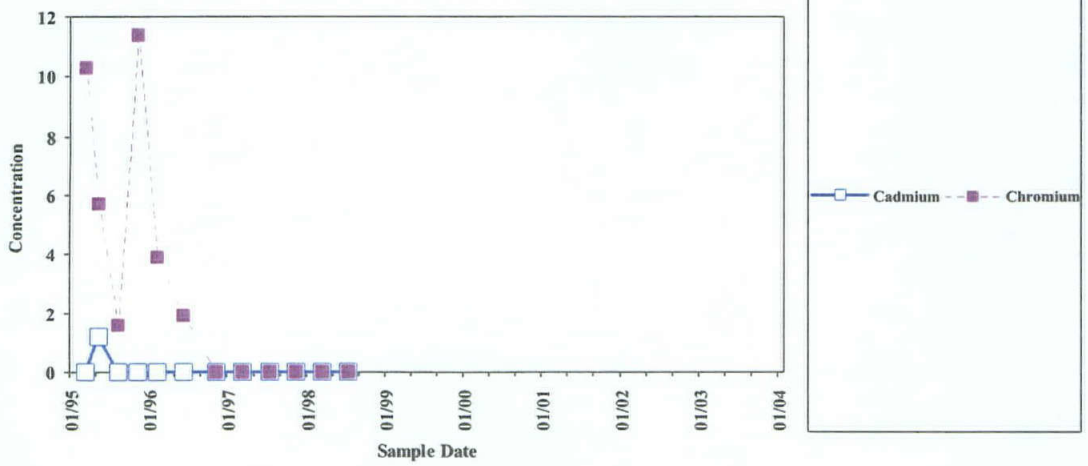
Sample Location:

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

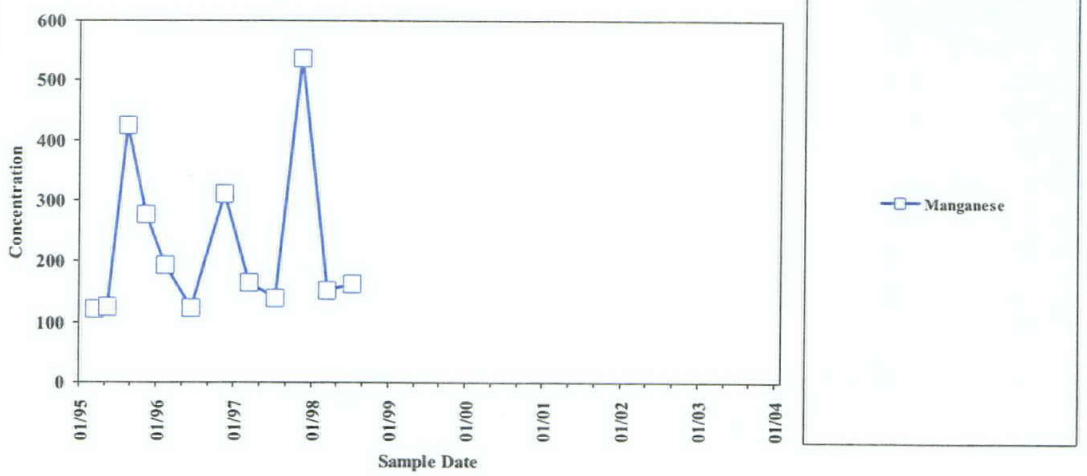
Sample Location:

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

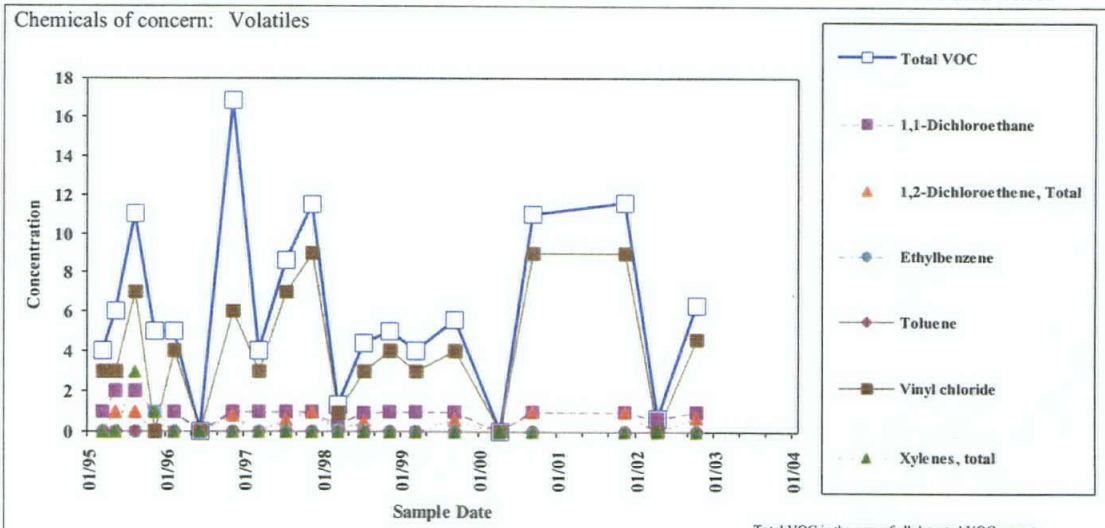
Sample Location:

MW-NASB-080

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

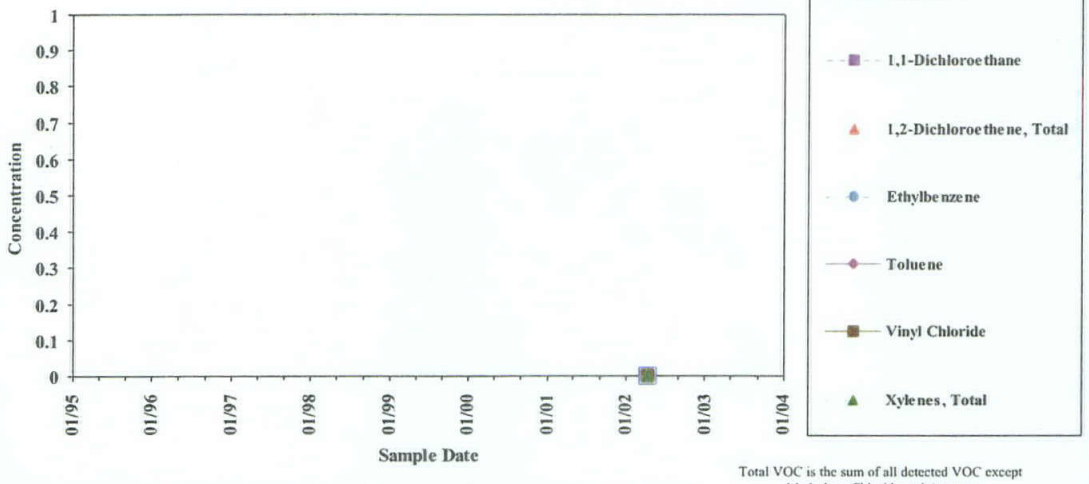
Sample Location:

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

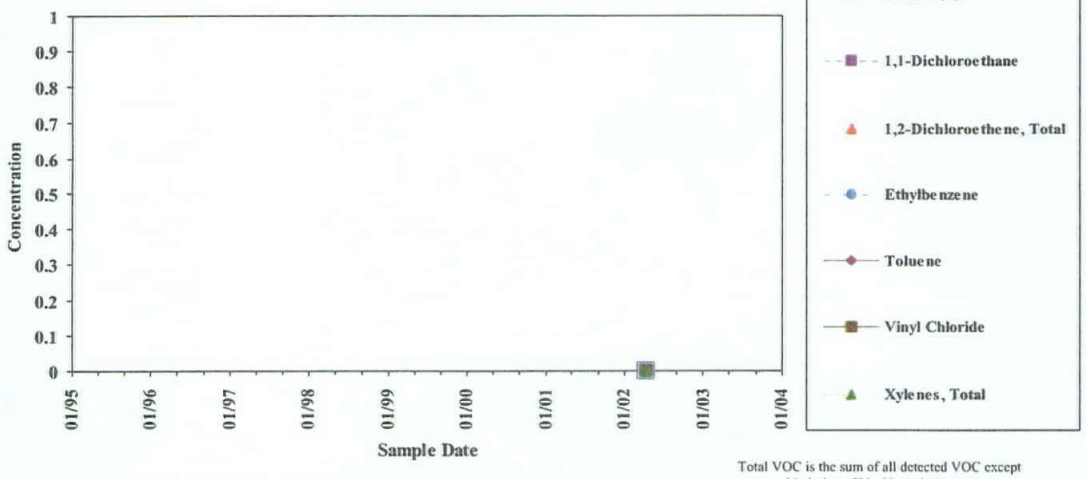
Sample Location:

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.

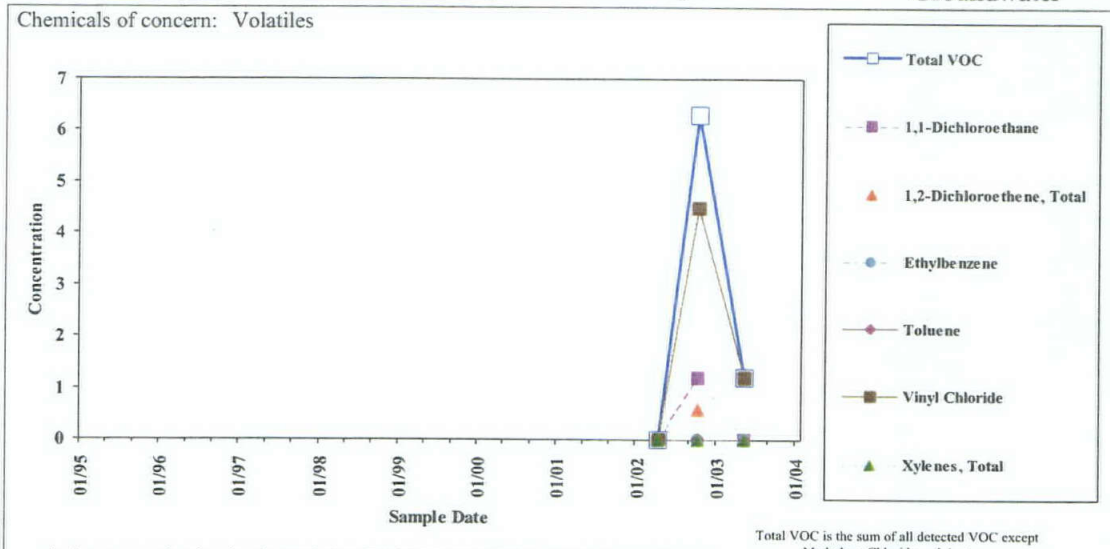
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

Sample Location:

MW-NASB-080 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.

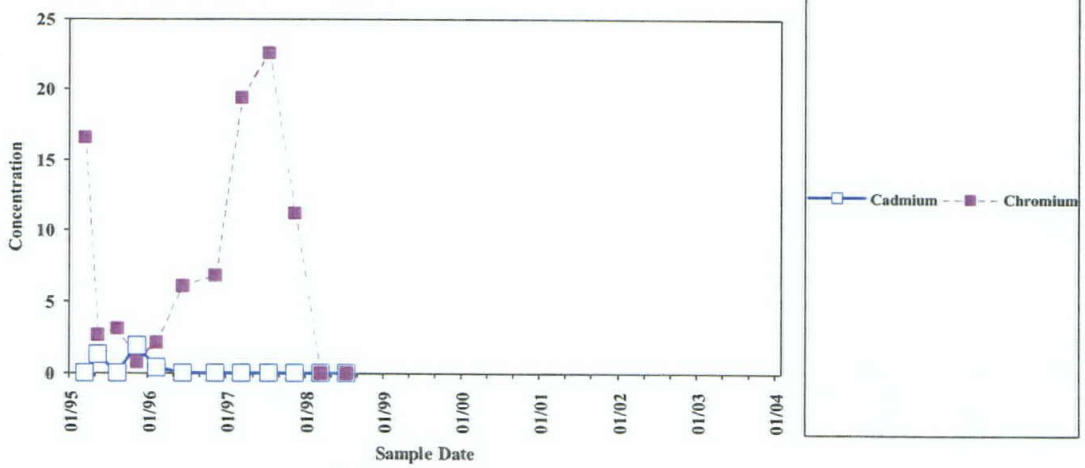
Total VOC is the sum of all detected VOC except Methylene Chloride and Acetone.

Sample concentration units: µg/L

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

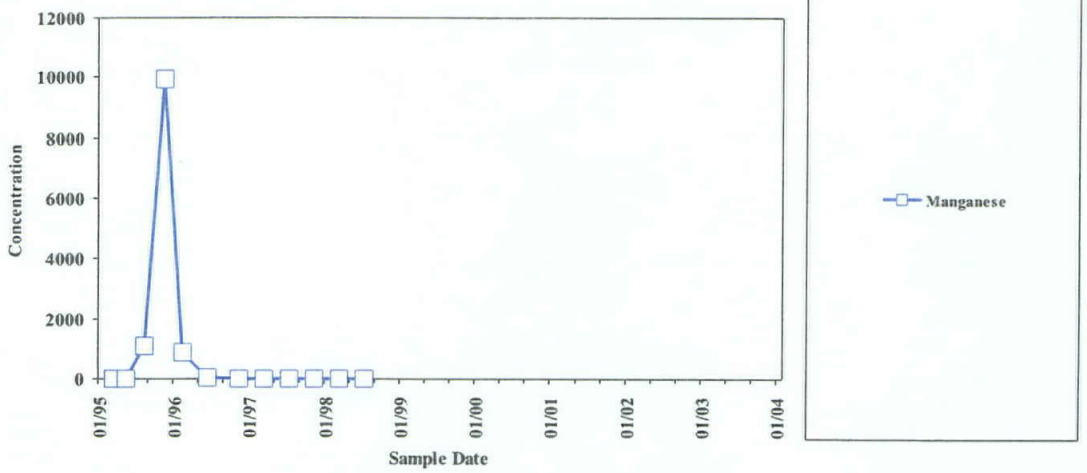
Sample Location:

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

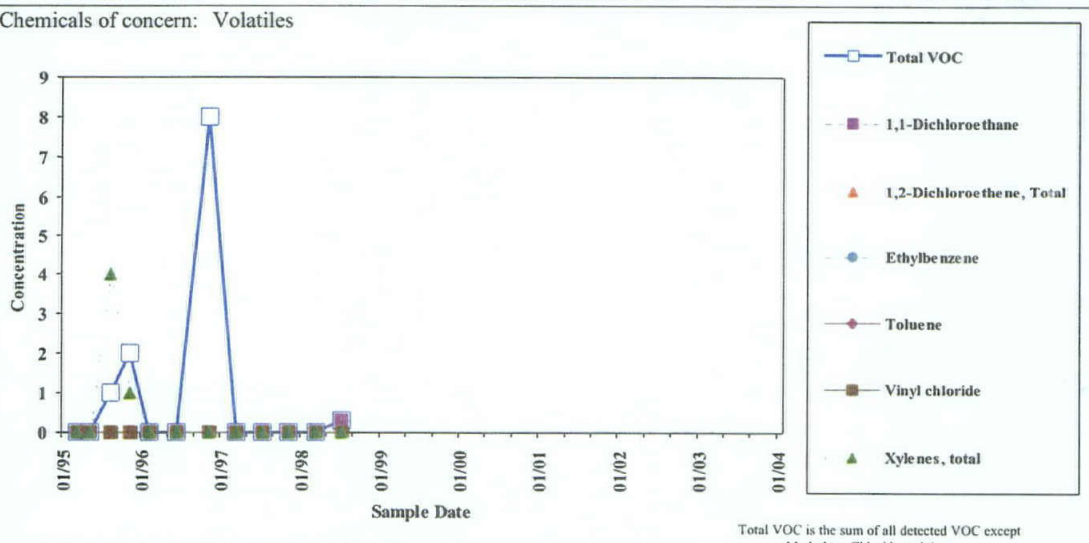
Sample Location:

MW-NASB-081

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

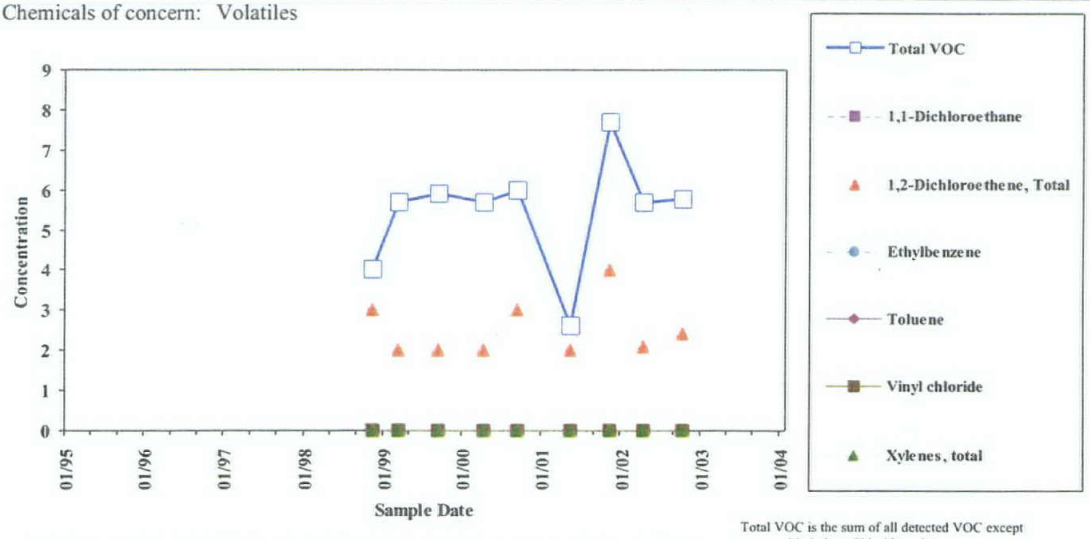
Sample Location:

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

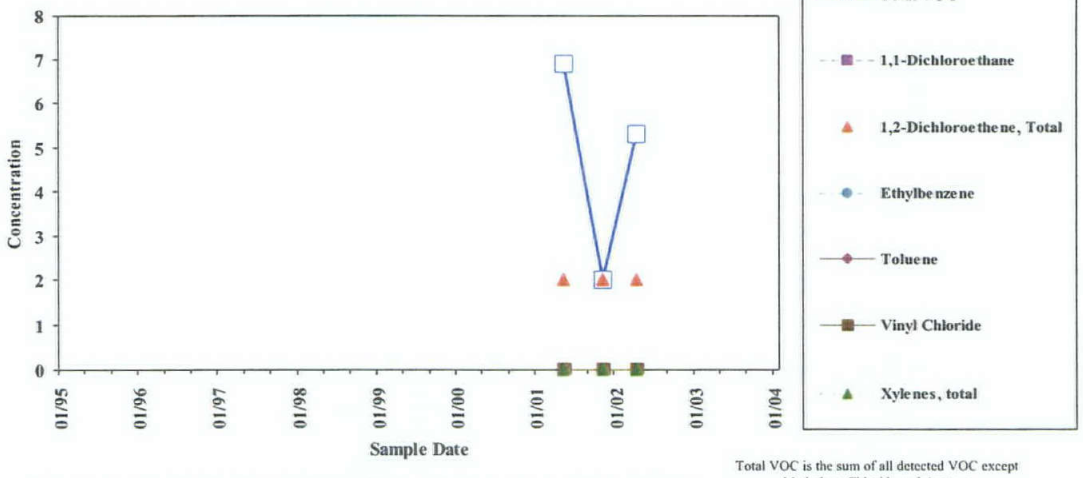
Sample Location:

MW-NASB-227

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

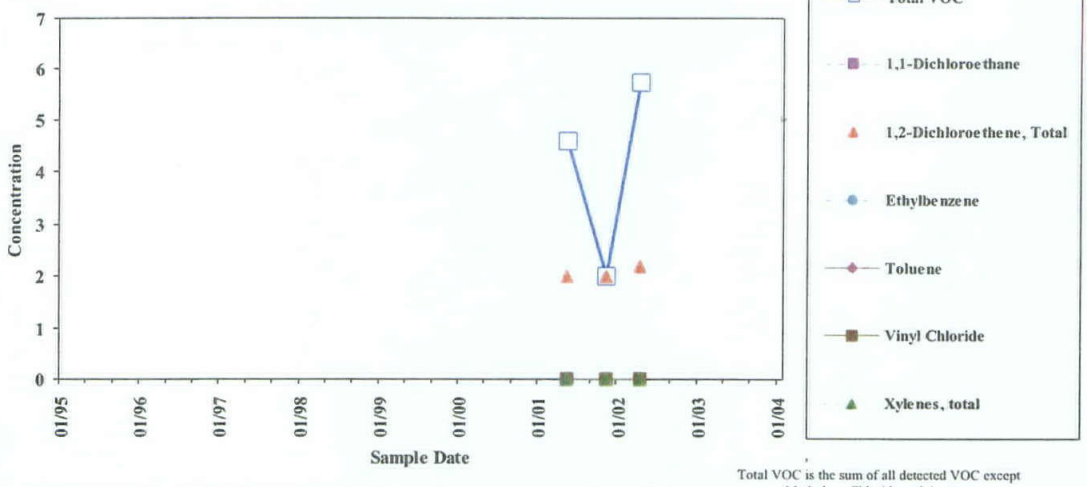
Sample Location:

MW-NASB-227

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

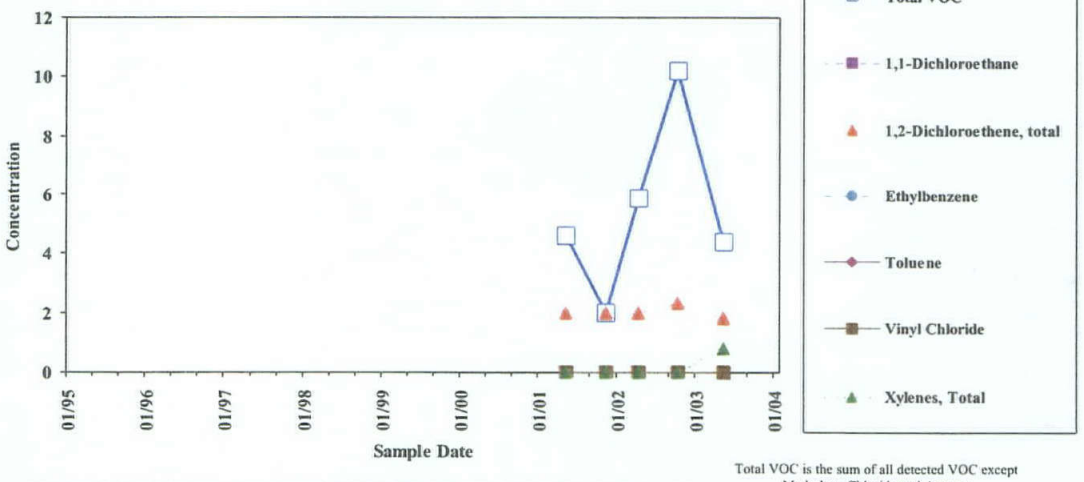
Sample Location:

MW-NASB-227

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.

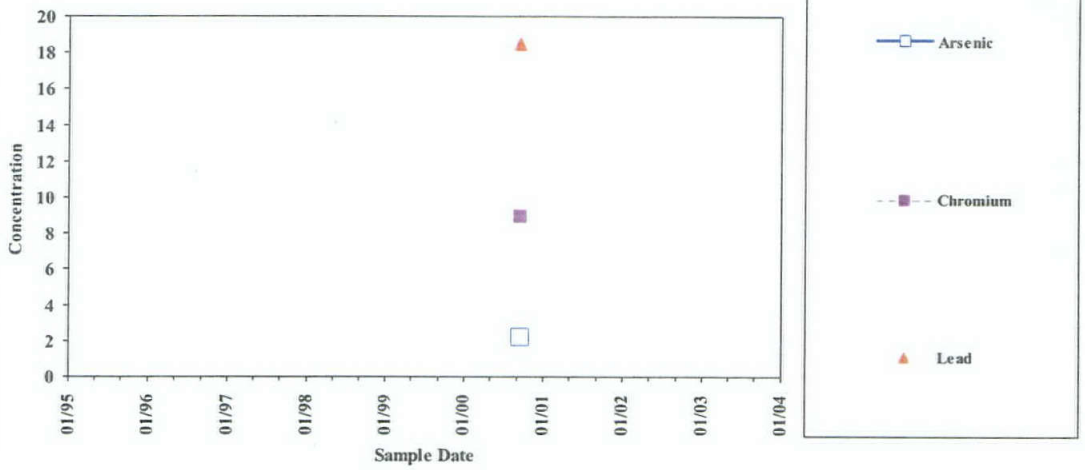
Sample concentration units: µg/L

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.

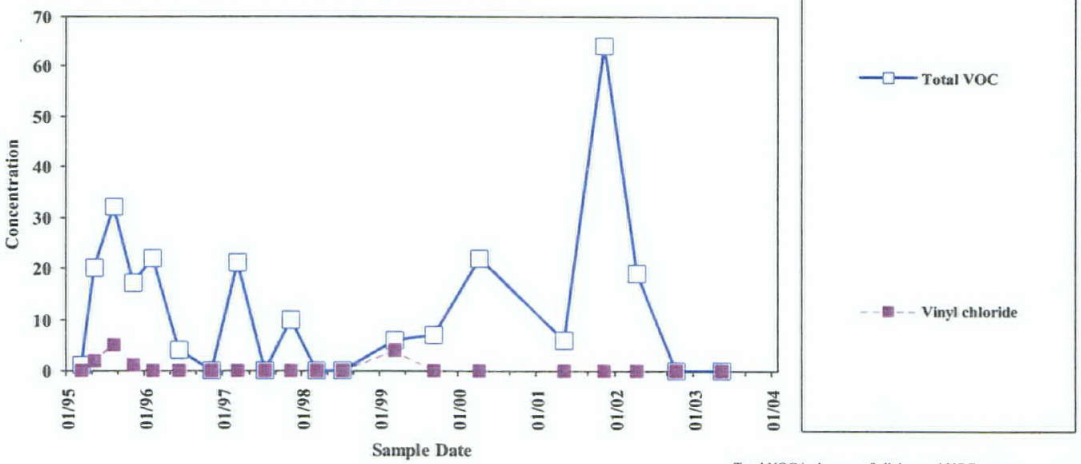
Sample concentration units: mg/Kg

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.

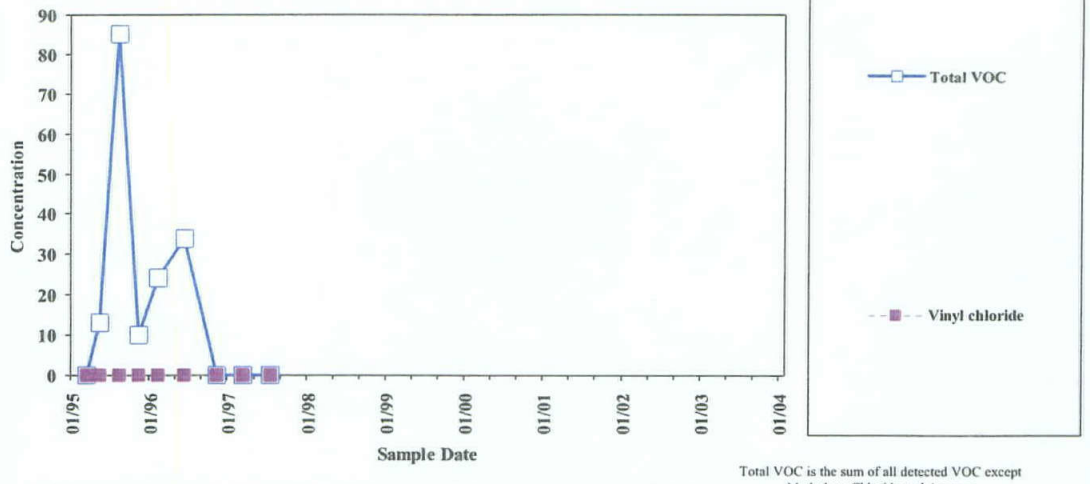
Sample concentration units: µg/kg

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.

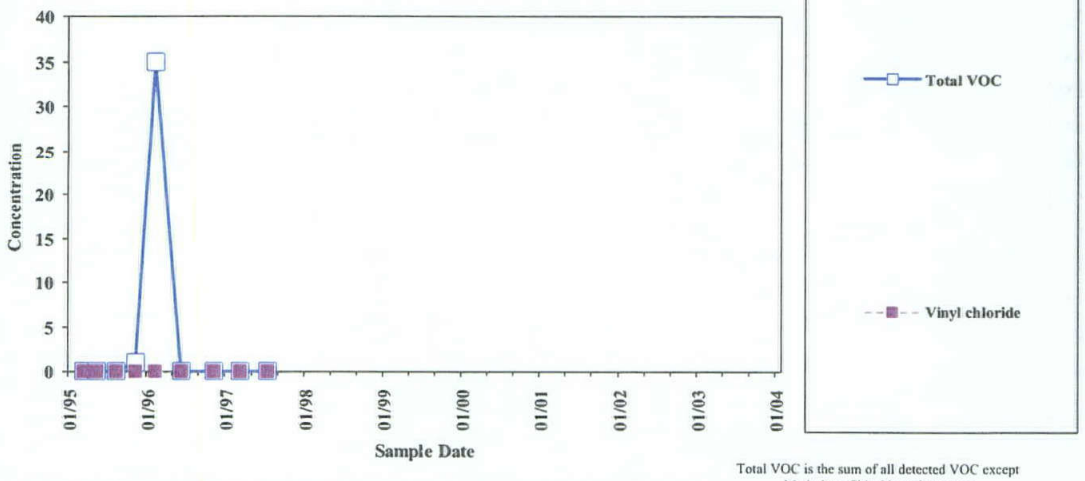
Sample concentration units: µg/Kg

Sample Location:

SED-12

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.

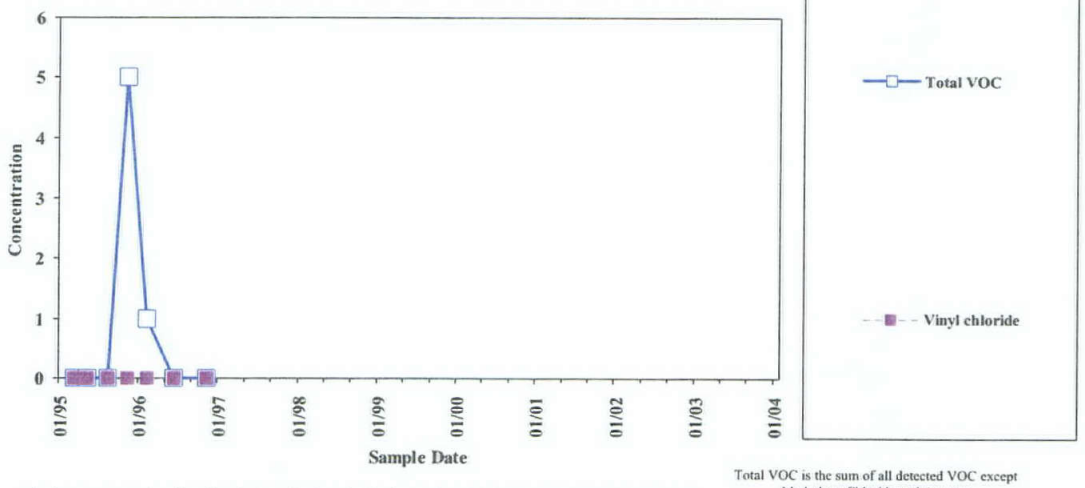
Sample concentration units: µg/Kg

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.

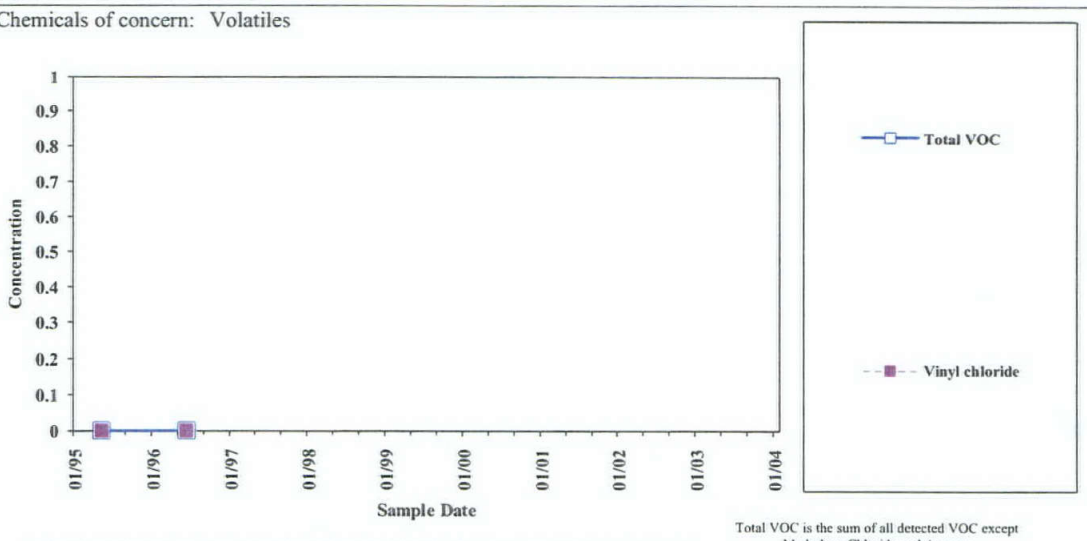
Sample concentration units: µg/Kg

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.

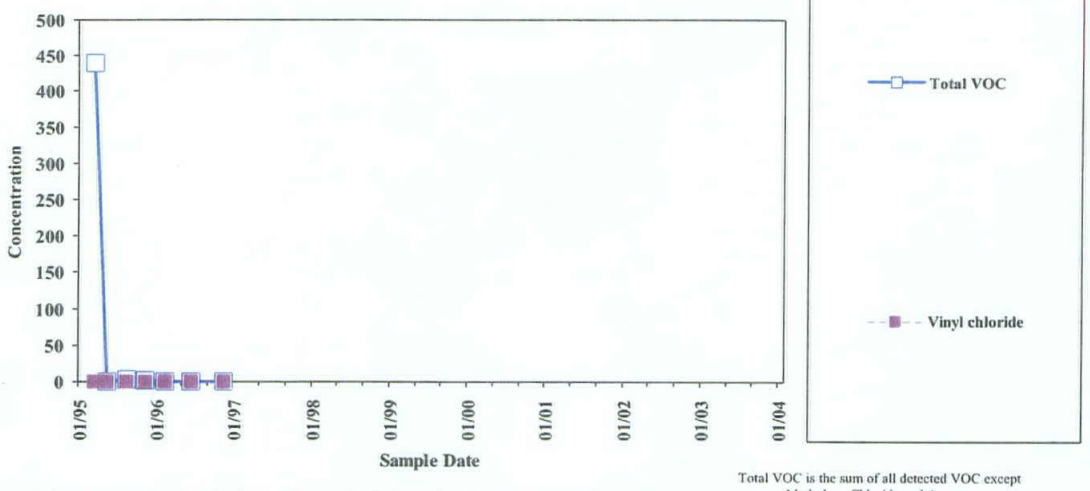
Sample concentration units: µg/Kg

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.

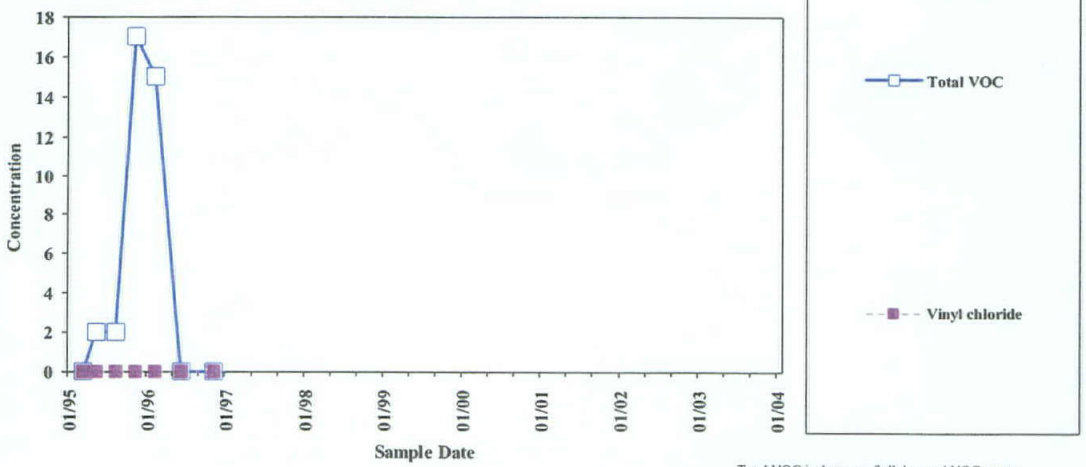
Sample concentration units: µg/Kg

Sample Location:

SED-922

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

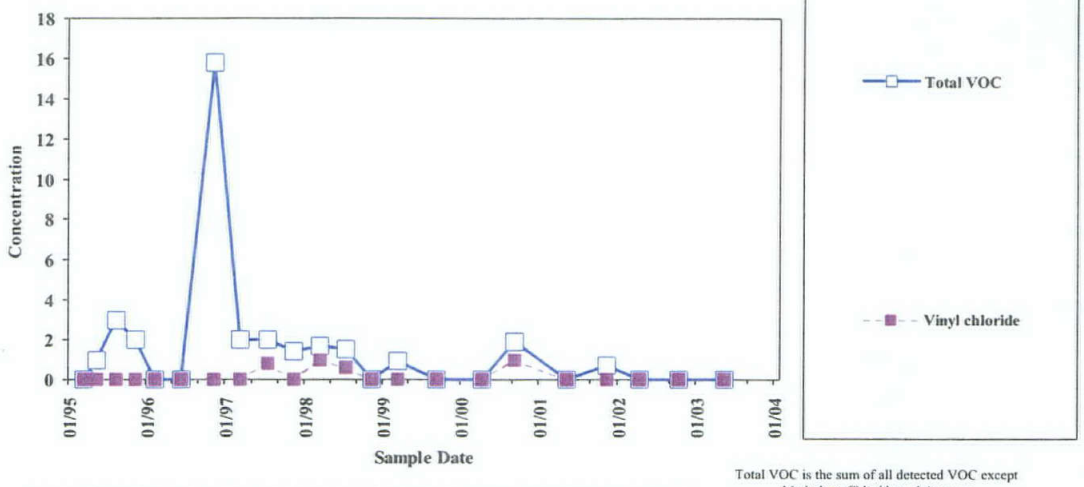
Sample Location:

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

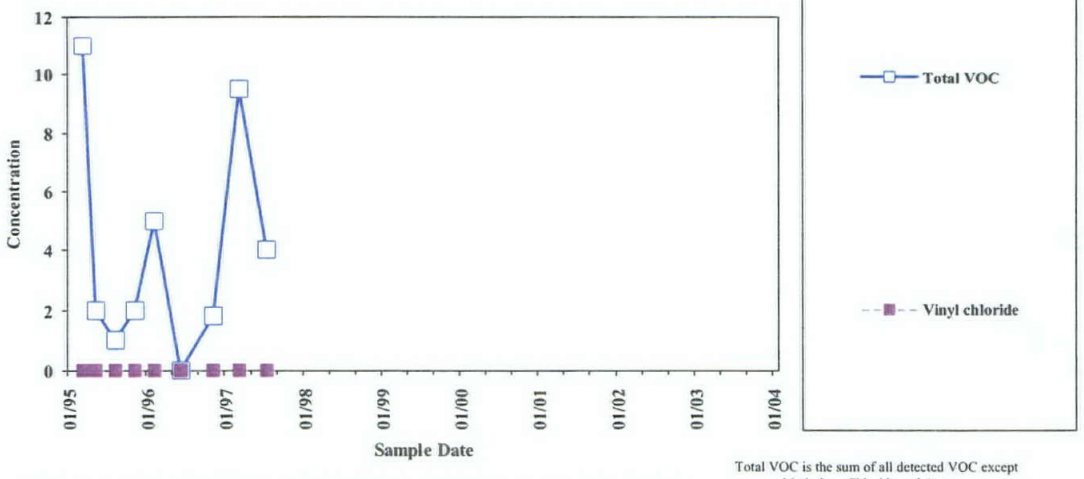
Sample Location:

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

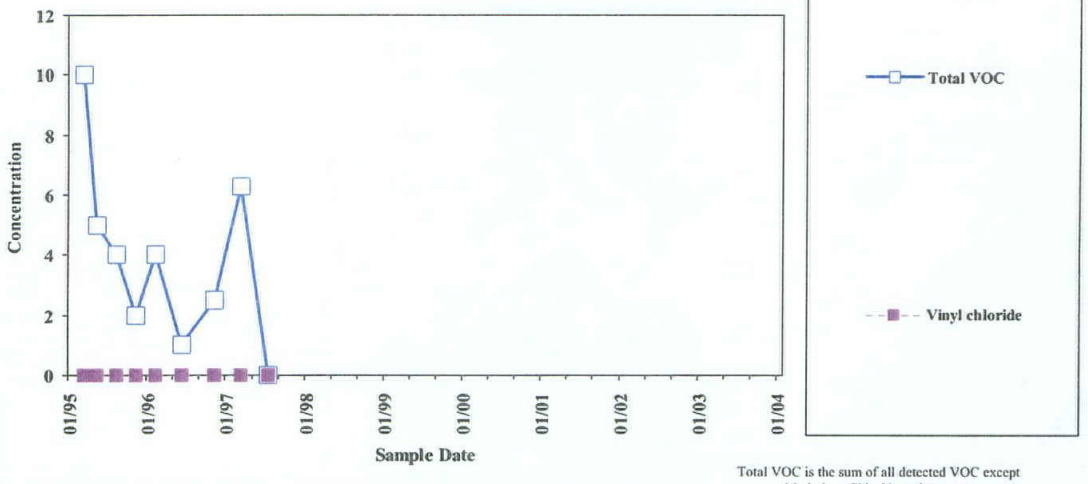
Sample Location:

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

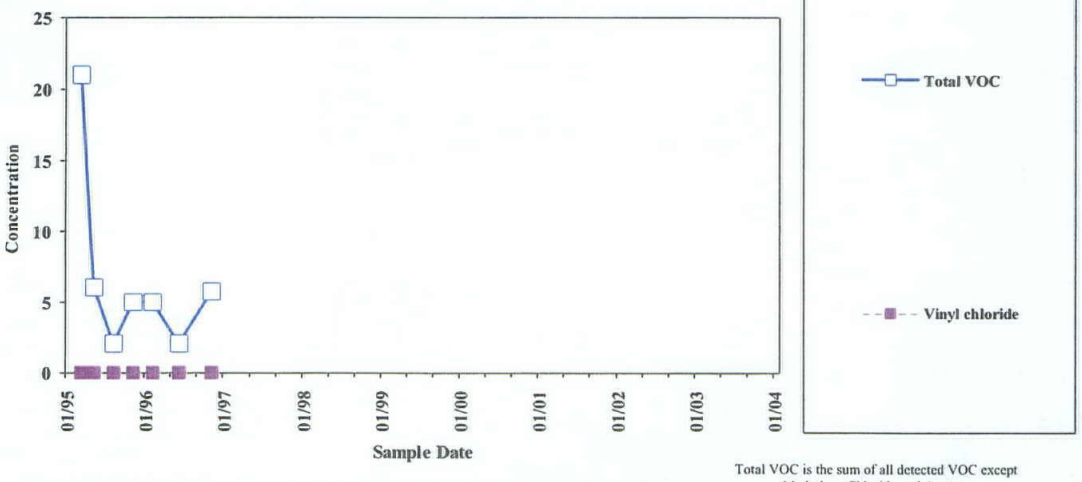
Sample Location:

SW-915

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

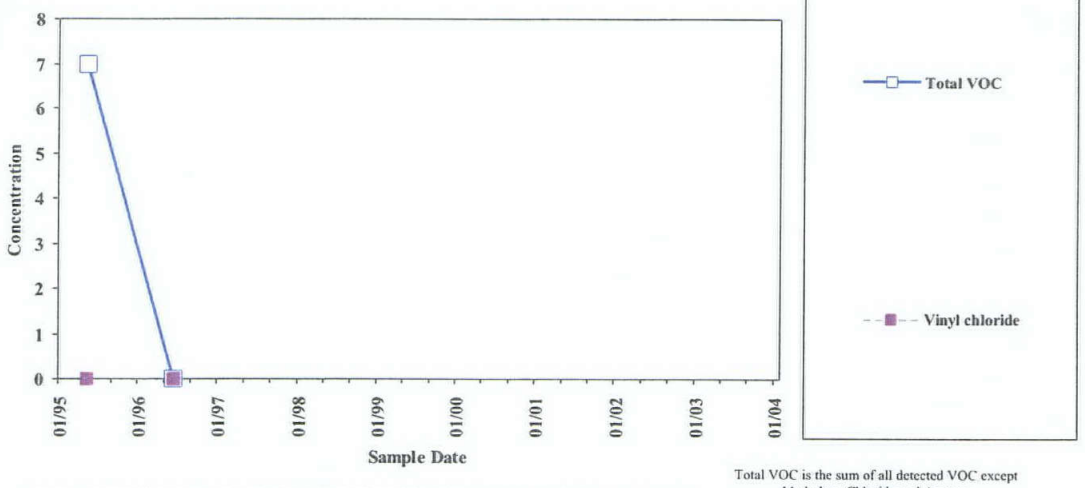
Sample Location:

SW-916

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

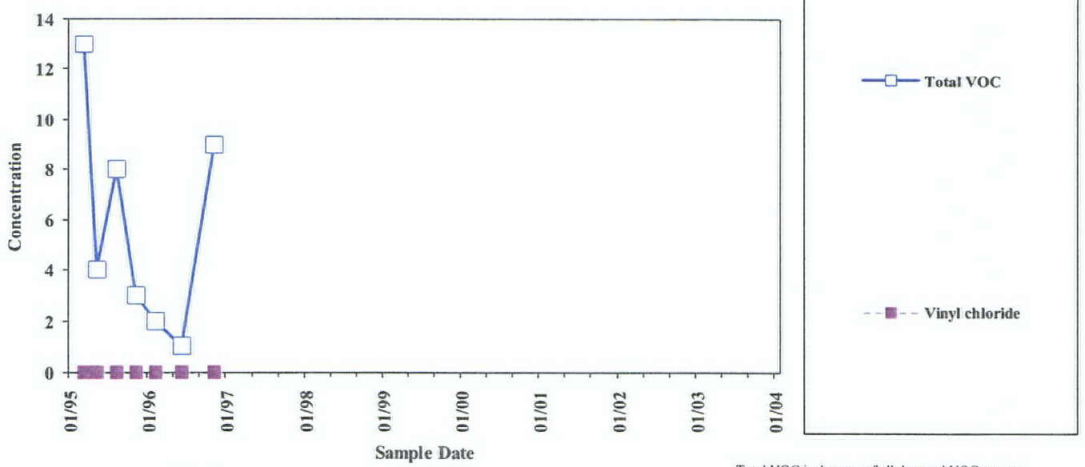
Sample Location:

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

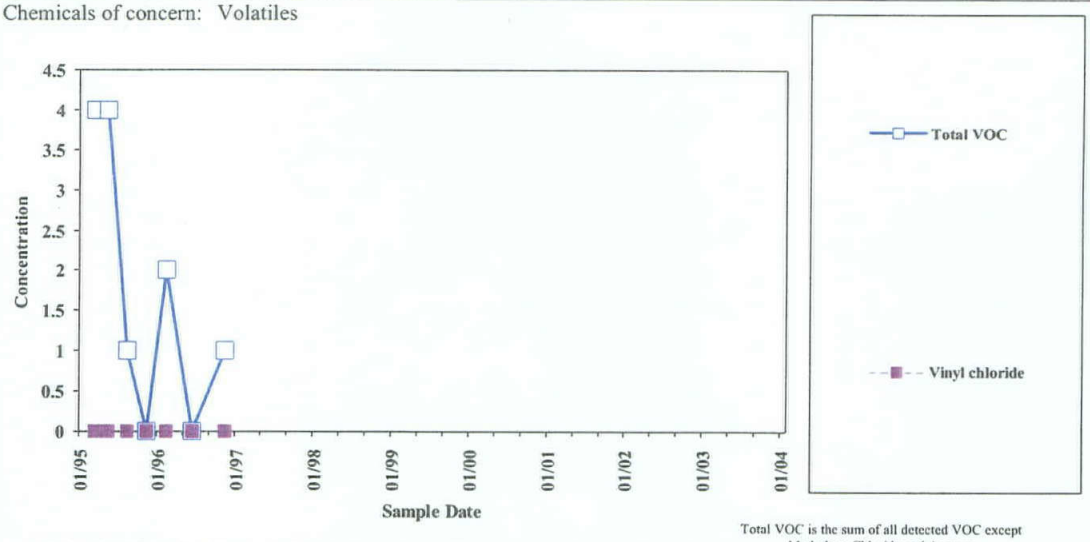
Sample Location:

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

Appendix D

Analytical Data Quality Review

D.1 Method Detection Limits for Sediment and Aqueous Samples

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APPENDIX D
ANALYTICAL DATA QUALITY REVIEW

D.1 INTRODUCTION

This project utilized both field and analytical laboratory quality control measures to ensure that the data quality objectives presented in the project-specific Final Quality Assurance Project Plan (QAPP) (EA 1999)[1] were met.

The sampling program consisted of 21 aqueous samples of groundwater, surface water, diffusion, and leachate seep samples (of which 5 were field duplicates), and 2 sediment samples (of which 1 was a field duplicate) collected from Site 9. AMRO Environmental Laboratories Corporation was provided with 1 sediment and 3 aqueous sample delivery groups (SDGs) that included 8 aqueous quality control samples (3 trip blanks, 4 rinsate blanks, and 1 source water blank). Sample duplicates, rinsate blanks, and trip blanks were collected at the frequency required by the QAPP.

Analytical quality control was reviewed for compliance against data quality objectives for precision and accuracy for each sample and analysis type, including field quality control blanks (i.e., trip blanks) and field sample duplication. Analytical precision was based upon the mean relative percent difference (RPD) of the matrix spike/matrix spike duplicate (MS/MSD) for organic analysis and the RPD of the laboratory duplicates for inorganic analysis. Accuracy was based upon the reported spike recoveries for the laboratory control standards (LCS), MS/MSD and system monitoring compound (SMC) recoveries (for organic analysis), and LCS and MS recoveries (for inorganic analysis).

The ability of the laboratory to extract compounds is confirmed by the LCS recoveries. MS/MSD and SMC recoveries measure the effect of the sample matrix on sample preparation and measurement methodology. During the MS/MSD process, known quantities of target compounds are spiked into the sample matrix for the MS/MSD, and recoveries are used to measure potential bias due to matrix effects. SMCs, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds, which are then used as indicators for all of the analytes. The accuracy of the LCS spike recoveries is used in conjunction with the MS/MSD when evaluating organic analyses.

Field completeness was quantified by comparing the number of samples specified in the Final Long-Term Monitoring Plan (EA 1999) to the number of samples actually collected during Monitoring Event 22. Data completeness was quantified by reviewing the number of usable results to the number of results reported.

1. EA Engineering, Science, and Technology. 1999. Final Long-Term Monitoring Plan (including Quality Assurance Project Plan), Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick. August.

For clarity, the following definitions are given for use throughout this review:

- ***Instrument Detection Limit (IDL)***—Defined as the lowest concentration level that can be determined to be statistically different from instrument background noise (instrument blank).

- ***Method Detection Limit***—Refers to the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix. The method detection limits for sediment and aqueous media are summarized in Appendix D.1.

- ***Contract Required Detection Limit/Contract Required Quantitation Limit (CRDL/CRQL)***—Refers to the minimum level of detection acceptable under the contract Statement of Work in order to ensure regulatory compliance. This terminology is widely accepted in the industry as defined by the U.S. Environmental Protection Agency (EPA) contract laboratory protocols and is a standard list of inorganic analyte concentrations and organic compound concentrations on which laboratory flags and data validation qualifiers are based. These published concentrations are meant to be above the laboratory IDL in order to ensure a level of confidence. The published CRDLs/CRQLs are specific to the Contract Laboratory Program methodology but are often used throughout industry methods. The data user should be aware that stated CRDLs/CRQLs are generic for a method and are affected for each sample by sample size, concentration, percent solids, and dilution factors.

- ***Practical Quantitation Limit***—Defined as the lowest level that can be reasonably achieved within specified units of precision and accuracy during routine laboratory operating conditions.

D.1.1 Precision

Precision is evaluated by comparing the RPD of the MS/MSD sample pairs to the laboratory-established RPD control limits. If the RPD is outside the quality control acceptance criteria, the positive detect or non-detect is estimated for the affected compound in the unspiked sample (U.S. EPA 1996)[2].

D.1.2 Accuracy

Accuracy is evaluated by comparing MS/MSD recoveries, surrogate spike recoveries, and LCS recoveries to laboratory-established control limits.

2. U.S. Environmental Protection Agency (U.S. EPA)–New England. 1996. Data Validation Functional Guidelines for Evaluating Environmental Analyses. Revised December.

D.1.2.1 Evaluating Matrix Spike/Matrix Spike Duplicate Recoveries for Accuracy

Generally, no action is taken based on the MS/MSD data alone to qualify an entire SDG. The qualification is limited to the unspiked sample associated with the MS/MSD. However, professional judgement may be used to qualify samples across a particular SDG (i.e., all associated samples).

- If the spike recovery is greater than the upper control limit, then the positive detects are estimated and the non-detects are not affected 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, then the positive detects are estimated and the non-detects are estimated for the affected compounds in the unspiked sample.

- If the spike recovery is less than 10 percent, then the positive detects are estimated and the non-detects are rejected for the affected compounds in the unspiked sample.

D.1.2.2 Evaluating Surrogate Recoveries for Accuracy

- If the surrogate recovery is greater than the upper limit, the positive detects are estimated 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 lower control limit, then the positive detects are estimated and the non-detects are estimated.

- If the surrogate recovery is less than 10 percent, then the positive detects are estimated and the non-detects are rejected.

  NOTE: If a sample has more than one surrogate recovery out of the control limits and the laboratory fails to re-analyze the sample which is outside the control limits, then the sample data should be qualified according to the above-mentioned guidelines for surrogate recoveries. If the sample was re-analyzed and the same surrogate recovery problems exist, this confirms that the non-compliance was due to sample matrix effects rather than poor laboratory performance and no qualification is needed for the sample.

D.1.2.3 Evaluating Laboratory Control Sample Recoveries for Accuracy

- If the LCS recovery is greater than the upper control limit, the positive detects are estimated 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 lower control limit, the positive detects are estimated and the non-detects are estimated.

- If the LCS recovery is less than 10 percent, the positive detects are estimated and the non-detects are rejected.

The following table summarizes the findings for the data quality review performed and presented in detail in this appendix:

Data Quality Review		Holding Time	Field Method Blank[a] Cont.	Precision		Accuracy			Completeness	
				Laboratory	Field	SMC	MS/MSD	LCS	Analytical	Field
Aqueous Matrix	VOC	✔	✔B	✔	✔J	✔	✔J	✔J	100%✔	100%✔
	Metals	✔	✔	✔	✔	NA	✔	✔	100%✔	100%✔
	SVOC	✔	✔	✔	✔	✔	✔	✔	100%✔	100%✔
Sediment Matrix	VOC	✔	✔	✔J	✔	✔	✔J	✔J	100%✔	100%✔

(a) Field, source, trip, and rinsate blanks.

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.
✔J = The data are usable, however, some analyte concentrations should be considered estimates of the true concentrations.
NA = The quality measurement does not apply to this matrix or analytical methodology.
SVOC = Semivolatile organic compound.

All volatile organic compounds (VOCs), metals, and semivolatile organic compounds (SVOCs) data for Site 9 are usable as reported based on the accuracy and precision review provided herein. Minor sample biases are identified and a detailed description of field/laboratory blank contamination (Section D.6), precision issues (Sections D.3 and D.7), and accuracy issues (Section D.4) are provided below.

D.1.3 Field Sampling Program Quality Control

Field sampling quality control was acceptable and conducted according to the Final QAPP (EA 1999). Field duplicate samples were collected for each matrix (i.e., sediment, groundwater, and leachate seep) and analyzed for the same parameters as the environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was assessed by trip blanks which were shipped with each sample cooler containing aqueous samples. The trip blanks were analyzed for VOCs by EPA SW-846 Method 8260B (gas chromatograph/mass spectrometry). To document the effectiveness of decontamination protocols, rinsate blank samples were collected by running de-ionized water through decontaminated sampling equipment and into the appropriate sample containers, and analyzing for the same parameters as the samples. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination sequence.

D.1.4 Laboratory Analytical Quality Control Program

The precision and accuracy objectives and reporting requirements identified in the Long-Term Monitoring Plan were met. Groundwater, diffusion, surface water, and leachate seep samples were collected for analysis of Target Compound List VOCs by EPA Method 8260B (gas chromatograph/mass spectrometry), and 4 groundwater samples (including 1 duplicate sample) were also analyzed for both Target Analyte List elements by EPA Methods 6010B and 7000 series and Target Compound List SVOCs by EPA Method 8270C. Sediment samples were collected for analysis of Target Compound List VOCs by EPA Method 8260B.

D.2 SAMPLE HOLDING TIMES

The holding times were met for all method and sample matrixes. Holding times (from date of sample collection to date of sample preparation/analysis) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods.

D.3 PRECISION

D.3.1 Volatile Organic Compounds

Five VOCs were used to quantify the MS/MSD RPDs. The control limits identified in the QAPP were used to evaluate the data. The MS/MSD analyses were performed on 4 samples (SW-010, MW-NASB-069 [deep], MW-NASB-069, and SD-010). There were no leachate seep samples designated for MS/MSD analyses, therefore, leachate seep samples were not evaluated for analytical precision. The surface water, diffusion, and monitoring well sample MS/MSD RPDs were within the established control limits, therefore, analytical precision was determined to be acceptable and the usability of the data are unaffected.

The sediment sample MS/MSD RPDs were within the established control limits in Sample SD-010 with the exception of bromoform (50.7 percent), 2-chlorotoluene (51 percent), 4-chlorotoluene (52.6 percent), 1,3-dichlorobenzene (50.4 percent), 1,2-dichlorobenzene (61.3 percent), 1,2,4-trichlorobenzene (106 percent), dibromochloromethane (52.7 percent), and naphthalene (63.2 percent). The non-detect results for bromoform, 2-chlorotoluene, 4-chlorotoluene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, dibromochloromethane, and naphthalene in Sample SD-010 are considered estimated based on MS/MSD RPDs.

D.3.2 Target Analyte List Metals

The diffusion laboratory duplicate precision measurements were within the laboratory control limits, therefore, the diffusion metals data are considered usable based on the review of analytical precision. All 23 analytes were used to quantify the laboratory duplicate RPD. The control

limits identified in the QAPP were used to evaluate the sediment duplicate RPD for Target Analyte List metals. The laboratory replicated the analyses of MW-NASB-069.

D.3.3 Semivolatile Organic Compounds

Eleven SVOCs were used to quantify the MS/MSD RPD. The aqueous control limits identified in the QAPP were used to qualify the MS/MSD RPD. The MS/MSD analysis was performed on Sample MW-NASB-069.

D.4 ACCURACY

D.4.1 Volatile Organic Compounds

The surface water, leachate seep, diffusion, and low-flow groundwater sample SMC recoveries were within established control limits; therefore, the analytical results are usable as reported. Four SMCs are used to measure the ability of the laboratory to purge the target analytes from the environmental samples. The SMC control limits for the aqueous and sediment samples are identified in the QAPP.

The sediment SMC recoveries were within the QAPP control limits with the exception of toluene-d8 in SD-010 (90.4 percent) and SD-010 DUP (91.3 percent). These recoveries are outside the laboratory control limits (93 to112 percent) but are within the QAPP control limits (82 to120 percent), therefore, the data are usable as reported.

Five VOCs were used to quantify MS/MSD recoveries against QAPP established control limits. The recovery limits reported by the laboratory were different than those identified in the QAPP. The samples chosen for MS/MSD are identified in Section D.3.1.

The low-flow groundwater sample MS/MSD recoveries were within the QAPP control limits with the exception of tetrahydrofuran (134 and 136 percent) in sample MW-NASB-069. The result for tetrahydrofuran was not detected in Sample MW-NASB-069, therefore, the high MW/MSD recovery does not affect the sample result; the sample result for tetrahydrofuran is usable as reported.

The surface water sample MS/MSD recoveries were within the QAPP control limits with the exception of tetrahydrofuran (133 and 144 percent) and tetrachloroethene (124 percent) in Sample SW-010. The results for tetrahydrofuran and tetrachloroethene were not detected in Sample SW-010, therefore, the high MS/MSD recoveries did not affect the sample results; the sample results for tetrahydrofuran and tetrachloroethene are usable as reported.

The diffusion sample MS/MSD recoveries were within the QAPP control limits with the exception of tetrahydrofuran (158 and 144 percent) in Sample MW-NASB-069 (DEEP). The

positive result for tetrahydrofuran in Sample MW-NASB-069 (DEEP) is considered estimated bias high.

The sediment sample MS/MSD recoveries were within the QAPP recovery limits with the exception of dichlorodifluoromethane (64.8 and 57.2 percent), acetone (1440 and 1190 percent), carbon disulfide (66.4 and 59.6 percent), methylene chloride (24.9 and 21.2 percent), 2-butanone (174 and 157 percent), *trans*-1,3-dichloropropene (69.9 and 53.6 percent), tetrachloroethene (64.8 and 53.4 percent), chlorobenzene (64.5 and 46.4 percent), 1,1,1,2-tetrachloroethane (64.4 and 50 percent), ethylbenzene (65.4 and 50.5 percent), m, p-xylene (67.5 and 47.2 percent), o-xylene (62.4 and 44.6 percent), styrene (54.6 and 40.5 percent), bromoform (70 and 47.1 percent), isopropylbenzene (59.6 and 45.6 percent), bromobenzene (56.8 and 39.8 percent), n-propylbenzene (60.6 and 43.7 percent), 2-chlorotoluene (56.8 and 38 percent), 4-chlorotoluene (54 and 35.6 percent), 1,3,5-trimethylbenzene (51.8 and 36.8 percent), tert-butylbenzene (54 and 39 percent), 1,2,4-trimethylbenzene (51.3 and 38.4 percent), sec-butylbenzene (54.5 and 40.4 percent), 4-isopropyltoluene (50.7 and 37.2 percent), 1,3-dichlorobenzene (45.6 and 30.8 percent), 1,4-dichlorobenzene (30.2 and 28.6 percent), n-butylbenzene (43.8 and 36.4 percent), 1,2-dichlorobenzene (43.2 and 25.9 percent), 1,2-dibromo-3-chloropropane (26.1 and 23.4 percent), 1,2,4-trichlorobenzene (20.4 and 7.05 percent), hexachlorobutadiene (44.4 percent), naphthalene (18 percent), 1,2,3-trichlorobenzene (18.8 percent), chloromethane (64 percent), vinyl chloride (65.4 percent), chloroethane (61.8 percent), trichlorofluoromethane (65.8 percent), *trans*-1,2-dichloroethene (69.6 percent), chloroform (66.9 percent), 1,1,1-trichloroethane (56.5 percent), 1,1-dichloropropene (59.9 percent), carbon tetrachloride (65.2 percent), benzene (69.9 percent), 1,2-dichloropropane (62.1 percent), bromodichloromethane (58.2 percent), dibromomethane (67.7 percent), *cis*-1,3-dichloropropene (55.4 percent), toluene (55 percent), 1,1,2-trichloroethane (61.6 percent), 1,2-dibromoethane (62.1 percent), 1,3-dichloropropane (63.1 percent), dibromochloromethane (46.8 percent), 1,1,2,2-tetrachloroethane (51.9 percent), 1,2,3-trichloropropane (55.4 percent), hexachlorobutadiene (31.3 percent), naphthalene (10.6 percent), and 1,2,3-trichlorobenzene (14.6 percent) in sample SD-010.

The non-detect results for dichlorodifluoromethane, carbon disulfide, methylene chloride, *trans*-1,3-dichloropropene, tetrachloroethene, chlorobenzene, 1,1,1,2-tetrachloroethane, ethylbenzene, m, p-xylene, o-xylene, styrene, isopropylbenzene, bromobenzene, n-propylbenzene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 4-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene, chloromethane, vinyl chloride, chloroethane, trichlorofluoromethane, *trans*-1,2-dichloroethene, chloroform, 1,1,1-trichloroethane, 1,1-dichloropropene, carbon tetrachloride, benzenecent, 1,2-dichloropropane, bromodichloromethane, dibromomethane, *cis*-1,3-dichloropropene, toluene, 1,1,2-trichloroethane, 1,2-dibromoethane, 1,3-dichloropropane, dibromochloromethane, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene in sample SD-010 should be considered estimated bias low.

The results for acetone and 2-butanone were not detected in sample SD-010, therefore, the high MS/MSD recovery does not affect the sample result; the sample result for acetone and 2-butanone are usable as reported. The data user should note that the results for bromoform, 2-chlorotoluene, 4-chlorotoluene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, and 1,2,4-trichlorobenzene were previously qualified as estimated due to an exceedance of the precision criteria (see section D.3.1 for further discussion).

Five VOCs were used to quantify the LCS recoveries against laboratory established control limits. The sediment, surface water, monitoring well, diffusion, and leachate seep LCS recoveries were compliant. The LCS recoveries are within both the QAPP and laboratory established control limits, confirming the laboratory's purging efficiency for both aqueous and solid matrices with the following exceptions: tetrahydrofuran (153 percent) in the monitoring well samples; tetrahydrofuran (158 and 164 percent) and 1,1-dichloropropene (110 percent) in the diffusion samples; tetrahydrofuran (140 percent) in the surface water and leachate seep samples; acetone (43.7, 50, and 41.5 percent), methylene chloride (50.7, 32.6, and 22.8 percent), trichloroethene (79 percent), 4-methyl-2-pentanone (140, 149, and 146 percent), dichlorodifluoromethane (63.4 percent), and 2-butanone (141 and 132 percent) in the sediment samples; and carbon disulfide (49 percent) in the source water blank. The result for tetrahydrofuran was not detected in the monitoring wells, surface water, and leachate seep samples, therefore, the data are usable as reported based on LCS accuracy criteria. The positive results for tetrahydrofuran in 6 diffusion samples (MW-NASB-022 [deep], MW-NASB-069 [deep], MW-NASB-072 [deep], MW-NASB-074 [deep], MW-NASB-075 [deep], and MW-NASB-069 [deep] DUP) should be considered estimated bias low. The results for 1,1-dichloropropene were not detected in the diffusion samples, therefore, the data are usable as reported based on LCS accuracy criteria. The non-detect results for acetone, methylene chloride, and trichloroethene in 2 of the sediment samples (SD-010 DUP and QT-04) should be considered estimated bias low. The non-detect result for acetone in sediment sample SD-010 should be considered estimated bias low. The data user should note that the results for dichlorofluoromethane and methylene chloride in sediment sample SD-010 were previously qualified estimated bias low due to low MS/MSD recoveries (see previous paragraph for further discussion). The results for 4-methyl-2-pentanone and 2-butanone were not detected in the sediment samples, therefore, the data are usable as reported based on LCS accuracy criteria. The result for carbon disulfide in the source water blank should be considered estimated bias low.

D.4.2 Target Analyte List Metals

Nineteen Target Analyte List analytes were used to quantify MS recoveries for aqueous samples. Calcium, magnesium, potassium, and sodium are not required as spiking compounds due to the potential for these compounds to be present in the environmental samples at high concentrations.

The MS/MSD samples were analyzed at the correct frequency, and the accuracy control limits used to evaluate the data were taken from the QAPP.

The laboratory performed an MS on the sample identified in Section D.3.2. The groundwater MS recoveries were within the established control limits, therefore, the data are usable as reported.

All 23 Target Analyte List analytes were used to quantify LCS recoveries against laboratory established control limits. The aqueous control limits identified in the QAPP were used to qualify the LCS recoveries. The aqueous LCS recoveries were compliant. All aqueous data are usable based on the review of the LCS accuracy.

D.4.3 Semivolatile Organic Compounds

Semivolatile data are usable as reported based on the review of analytical accuracy for SMC. Six SMCs were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The aqueous sample SMC recoveries were within the established control limits.

Eleven compounds were used to qualify the MS/MSD recoveries. The control limits stated in the QAPP were used to evaluate the data. The monitoring well sample MS/MSD recoveries met acceptance criteria; the data are usable as reported.

Eleven SVOCs were used to quantify the LCS recoveries against laboratory established control limits. The monitoring well LCS recoveries were within the control limits with the exception on phenol (50.8 percent). The results for phenol were not detected in the monitoring well samples, therefore, the data are usable based on the review of the LCS accuracy.

D.5 COMPLETENESS

Usable analytical data were available for all analytes/compounds for all field samples, and total analytical completeness is 100 percent.

Twenty-one of the planned 21 aqueous field samples were collected, resulting in a field completeness level of 100 percent, and 2 of 2 sediment field samples were collected, resulting in a field completeness level of 100 percent.

The field quality control blanks were collected at the proper frequency. A total of 3 trip blanks were collected for Site 9. There were 3 rinsate blanks collected (associated with the surface water/seep samples and the sediment samples) and 1 rinsate blank collected (associated with the diffusion samples). In addition, a source water blank was submitted for Site 9 in compliance with the QAPP.

Analytical completeness was quantitated by comparing the number of acceptable analytical results to the total number of analytical results.

D.6 FIELD QUALITY CONTROL BLANKS

Monitoring well and trip blank samples contained analytical results that are considered false-positives based on both field and method blank contamination. Field quality control rinsate blanks were collected to evaluate the potential for contamination that may have been introduced during the field sampling activities. Trip blanks were collected to assess the potential for cross-contamination of VOCs during sample shipment. In both cases, where contamination exists, environmental samples should be reviewed for possible false-positives.

The field quality control blanks collected for this site included 3 trip blanks, 3 equipment rinsate blanks, 1 diffusion rinsate blank, and a source water blank. The rinsate blank (QS-002) associated with the collection of leachate seep sampling, rinsate blank (QS-003) associated with surface water sampling, rinsate blank (QS-004) associated with the collection of sediment sampling, rinsate blank (QS-011) associated with the collection of the diffusion sampling, and the source water blank (QD-002) associated with the collection of surface water and sediment sampling, and the diffusion samples with this event.

D.6.1 Laboratory Method Blanks

Method blank results were reviewed and were void of contaminants of concern for VOCs, SVOCs, and metals.

D.6.2 Trip Blanks

The field quality control blanks collected for this site included 3 trip blanks (QT-03, QT-04, and QT-05). The trip blanks were analyzed for VOCs, and no VOCs were reported with the exception of toluene (QT-04).

The positive toluene result for one rinsate blank sample (QS-002) should be considered false-positive due to method blank contamination.

Toluene was not detected in the associated environmental samples, therefore, the results are usable as reported. There was no cross-contamination of VOCs during sample shipment.

D.6.3 Rinsate Blanks

The analytical results for the rinsate blanks associated with the leachate seep, surface water, and sediment collected at Site 9, and the associated source water blank, are shown in the following table:

Compound	Units	QD-001	QS-002	QS-003	QS-004
Acetone	µg/L	(<10U)	8.5J	9.2J	10
Methylene chloride	µg/L	(<5U)	1.8J	1.7J	1.7
Toluene	µg/L	(<2U)	0.51J	(<2U)	(<2U)

NOTE: U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration below detection limit.

The analytical results of the equipment rinsate blanks and the source water blank indicate that there was no contamination introduced during the field sampling activities. The source water blank (QD-002) and the rinsate blanks (QS-002, QS-003, and QS-004) were reported free of VOC contamination, with the exception of acetone and methylene chloride in both of the rinsate blanks and toluene in one of the rinsate blanks. The positive toluene result in Sample QS-002 is considered a false-positive due to trip blank contamination (see Section D.6.2 for discussion). The rinsate blanks were performed on the dedicated sampling equipment (sample jars and EnCore™ sampler) to show that the sampling equipment was free of contamination. As methylene chloride and acetone were not detected in the associated samples, those results are usable as reported.

The results of the diffusion rinsate blank (QS-011) and associated source water blank (QD-002) associated with the diffusion samples taken at Site 9 are shown in the table below:

Compound	Units	QD-002	QS-011
Acetone	µg/L	(<10U)	39
Methylene chloride	µg/L	(<5U)	0.81J
Benzene	µg/L	(<1U)	2
M,p-xylene	µg/L	(<2U)	0.74J

NOTE: U = Not detected. Sample quantitation limits are shown as (<__U).
J = Estimated concentration below detection limit.

The analytical results of the field blank and source water blank indicate that there was minor VOC contamination present. The positive results for acetone in Sample MW-NASB-021 (deep) and benzene in Sample MW-NASB-080 (deep) should be considered false-positive due to rinsate blank contamination. As methylene chloride and m,p-xylene were not detected in the diffusion samples, these results are usable as reported.

D.7 DUPLICATE FIELD SAMPLES

All precision requirements were met for the organic results for the duplicate samples (MW-NASB-069, MW-NASB-069 DUP, MW-NASB-069 [deep], MW-NASB-069 [deep] DUP, MW-NASB-076 [deep], MW-NASB-076 [deep] DUP, SW-010, SW-010 DUP, LT-901, LT-901 DUP, SED-010, and SED-010 DUP), therefore, the sample results are usable as reported. Field duplicate samples are used to evaluate the overall precision for both the field and laboratory and the homogeneity of the sample matrix. Typically, these results have more variability than laboratory precision measurements with the extremes being noted in soil matrices.

Based on EPA Region 1 criteria for evaluating field duplicates, the following guidelines were used to review the field duplicates taken during the sampling event. The overall precision of organic compounds was evaluated as the RPD (non-detects were defined as one-half the reporting limit) and was considered acceptable at an RPD of less than 30 percent for water samples and 50 percent for soil samples. Overall precision for inorganic analytes was evaluated by reviewing the difference of the field duplicate for analytes with concentrations less than 5 times the reporting limit (the difference cannot be greater than ±2 times the reporting limit for water samples or cannot be greater than ±4 times the reporting limit for soil samples), and by the RPD (less than 30 percent for water samples or 50 percent for soil samples) for the analytes greater than 5 times the reporting limit. Non-detects were defined as one-half the reporting limit for difference measurements. The reporting limits used to evaluate the data are based on those presented in the QAPP.

Duplicate field samples were collected during the monitoring well groundwater sampling program, diffusion sampling program, and leachate seep sampling program. The sample locations of the field duplicated samples were not identified to the laboratory. The precision measurements for all analytes reported above the CRQL/CRDL are defined in the tables below.

The following table shows the first set of field duplicate groundwater sample results that are associated with SDG S9MW079:

Compound	Units	MW-NASB-069	MW-NASB-069 DUP	RPD%	Difference
Vinyl chloride	µg/L	48	46	4	---
trans-1,2-dichloroethene	µg/L	1.0J	0.77J	26	---
cis-1,2-dichloroethene	µg/L	30	29	3.4	---
Aluminum	µg/L	55J*	(<200U)	NA	45
Calcium	µg/L	5,600	5,500	NA	100
Iron	µg/L	210	230	NA	20
Magnesium	µg/L	2,400J*	2,400J	NA	0
Manganese	µg/L	360	360	0	NR
Potassium	µg/L	1,400J	1,400J	NA	0
Sodium	µg/L	55,000	54,000	1.8	NR
Zinc	µg/L	22	11J	NA	11

NOTE:
J = Estimated concentration below detection limit.
J* = Analyte concentration is between the IDL and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<__U).
NA = Not applicable; analyte concentration was less than 5 times the reporting limit.
NR = Not required; analyte concentration was greater than 5 times the reporting limit and, therefore, the RPD was applied.
Dashes (---) indicate this column does not apply to organic analysis.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the first set of field duplicate diffusion sample results that are associated with SDG S9DS21:

Compound	Units	MW-NASB-069 (deep)	MW-NASB-069 DUP (deep)	RPD%
Vinyl chloride	µg/L	3.6	0.77J	**129.5**
Cis-1,2-dichloromethene	µg/L	6.2	3.1	**62.4**
Tetrahydrofuran	µg/L	2.8J	2.7J	3.6

NOTE: J = Estimated concentration below detection limit.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of vinyl chloride and *cis*-1,2-dichloroethane. The results for vinyl chloride and *cis*-1,2-dichloromethane should be considered estimated in MW-NASB-069 and MW-NASB-069 DUP.

The following table shows the second set of field duplicate diffusion sample results that are associated with SDG S9DS227M:

Compound	Units	MW-NASB-076 (deep)	MW-NASB-076 DUP (deep)	RPD%
Vinyl chloride	µg/L	(2.0U)	0.67J	**39.5**

NOTE: J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<__U).
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of vinyl chloride. The result for vinyl chloride in Sample MW-NASB-076 DUP should be considered estimated.

The surface water field duplicate sample results associated with SDG S9-SW010 (SW-010 and SW-010 DUP) had no VOCs detected and, therefore, met all precision requirements.
The analytical results for surface water samples (SW-010 and SW-010 DUP) sampled at Site 9 are usable as reported based on review of the field duplicate precision.

The leachate seep field duplicate sample results associated with SDG S9-SW010 (LT-901 and LT-901 DUP) had no VOCs detected and, therefore, met all precision requirements.
The analytical results for leachate seep samples (LT-901 and LT-901 DUP) sampled at Site 9 are usable as reported based on review of the field duplicate precision.

The sediment field duplicate sample results associated with SDG S9-SW010 (SD-010 and SD-010 DUP) had no VOCs detected and, therefore, met all precision requirements. The analytical results for sediment samples (SW-010 and SW-010 DUP) sampled at Site 9 are usable as reported based on review of the field duplicate precision.

D.8 METHOD DETECTION LIMITS FOR SEDIMENT AND AQUEOUS SAMPLES

Appendix D.1 provides the method detection limits for sediment and aqueous samples. The method detection limit 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 and is determined from analysis of a sample for a given matrix.

Appendix D.1

Method Detection Limits for Sediment and Aqueous Samples

AMRO Environmental Laboratories Corp.

Date: 19-Nov-03

Test Code: 8260_NHW
Test Number: SW8260B
Test Name: EPA 8260B VOLATILES by GC/MS
Matrix: Aqueous Units: µg/L

METHOD DETECTION / REPORTING LIMITS

Updated:

Type	Analyte	MDL	PQL
A	1,1,1,2-Tetrachloroethane	0.5	2
A	1,1,1-Trichloroethane	0.5	2
A	1,1,2,2-Tetrachloroethane	0.5	2
A	1,1,2-Trichloroethane	0.5	2
A	1,1-Dichloroethane	0.5	2
A	1,1-Dichloroethene	0.5	1
A	1,1-Dichloropropene	0.5	2
A	1,2,3-Trichlorobenzene	0.5	2
A	1,2,3-Trichloropropane	0.5	2
A	1,2,4-Trichlorobenzene	0.5	2
A	1,2,4-Trimethylbenzene	0.5	2
A	1,2-Dibromo-3-chloropropane	1.25	5
A	1,2-Dibromoethane	0.5	2
A	1,2-Dichlorobenzene	0.5	2
A	1,2-Dichloroethane	0.5	2
A	1,2-Dichloropropane	0.5	2
A	1,3,5-Trimethylbenzene	0.5	2
A	1,3-Dichlorobenzene	0.5	2
A	1,3-Dichloropropane	0.5	2
A	1,4-Dichlorobenzene	0.5	2
A	2,2-Dichloropropane	0.5	2
A	2-Butanone	2.5	10
A	2-Chlorotoluene	0.5	2
A	2-Hexanone	2.5	10
A	4-Chlorotoluene	0.5	2
A	4-Isopropyltoluene	0.5	2
A	4-Methyl-2-pentanone	2.5	10
A	Acetone	2.5	10
A	Benzene	0.5	1
A	Bromobenzene	0.5	2
A	Bromochloromethane	0.5	2
A	Bromodichloromethane	0.5	2
A	Bromoform	0.5	2
A	Bromomethane	0.5	2
A	Carbon disulfide	0.5	2
A	Carbon tetrachloride	0.5	2
A	Chlorobenzene	0.5	2
A	Chloroethane	1.25	5
A	Chloroform	0.5	2
A	Chloromethane	1.25	3
A	cis-1,2-Dichloroethene	0.5	2
A	cis-1,3-Dichloropropene	0.5	1

AMRO Environmental Laboratories Corp.

Date: 19-Nov-03

Test Code: 8260_NHW
Test Number: SW8260B
Test Name: EPA 8260B VOLATILES by GC/MS
Matrix: Aqueous Units: µg/L

METHOD DETECTION / REPORTING LIMITS

Updated:

Type	Analyte	MDL	PQL
A	Dibromochloromethane	0.5	2
A	Dibromomethane	0.5	2
A	Dichlorodifluoromethane	1.25	5
A	Diethyl ether	1.25	5
A	Diisopropyl ether	1	2
A	Ethyl Tertiary Butyl Ether	1	2
A	Ethylbenzene	0.5	2
A	Hexachlorobutadiene	0.5	2
A	Isopropylbenzene	0.5	2
A	m,p-Xylene	0.5	2
A	Methyl tert-butyl ether	0.5	2
A	Methylene chloride	0.5	5
A	n-Butylbenzene	0.5	2
A	n-Propylbenzene	0.5	2
A	Naphthalene	1	5
A	o-Xylene	0.5	2
A	sec-Butylbenzene	0.5	2
A	Styrene	0.5	2
A	tert-Butylbenzene	0.5	2
A	Tertiary Amyl Methyl Ether	0.5	2
A	Tertiary Butanol	25	50
A	Tetrachloroethene	0.5	2
A	Tetrahydrofuran	2.5	10
A	Toluene	0.5	2
A	trans-1,2-Dichloroethene	0.5	2
A	trans-1,3-Dichloropropene	0.5	1
A	Trichloroethene	0.5	2
A	Trichlorofluoromethane	0.5	2
A	Vinyl chloride	0.5	2
I	1,4-Dichlorobenzene-d4	0	0
I	Chlorobenzene-d5	0	0
I	Fluorobenzene	0	0
S	1,2-Dichloroethane-d4	0.5	2
S	4-Bromofluorobenzene	0.5	2
S	Dibromofluoromethane	0.5	2
S	Toluene-d8	0.5	2

AMRO Environmental Laboratories Corp.

Date: 29-May-01

METHOD DETECTION / REPORTING LIMITS

Updated:

Test Code: 8260_MS
Test Number: SW8260B
Test Name: VOLATILES by GC/MS, Medium-Level
Matrix: Soil **Units:** µg/Kg

Type	Analyte	MDL	PQL
A	1,1,1,2-Tetrachloroethane	13	25
A	1,1,1-Trichloroethane	13	25
A	1,1,2,2-Tetrachloroethane	13	25
A	1,1,2-Trichloroethane	13	25
A	1,1-Dichloroethane	13	25
A	1,1-Dichloroethene	13	25
A	1,1-Dichloropropene	13	25
A	1,2,3-Trichlorobenzene	13	25
A	1,2,3-Trichloropropane	13	25
A	1,2,4-Trichlorobenzene	13	25
A	1,2,4-Trimethylbenzene	13	25
A	1,2-Dibromo-3-chloropropane	25	50
A	1,2-Dibromoethane	13	25
A	1,2-Dichlorobenzene	13	25
A	1,2-Dichloroethane	13	25
A	1,2-Dichloropropane	13	25
A	1,3,5-Trimethylbenzene	13	25
A	1,3-Dichlorobenzene	13	25
A	1,3-Dichloropropane	13	25
A	1,4-Dichlorobenzene	13	25
A	2,2-Dichloropropane	13	25
A	2-Butanone	125	250
A	2-Chlorotoluene	13	25
A	2-Hexanone	125	250
A	4-Chlorotoluene	13	25
A	4-Isopropyltoluene	13	25
A	4-Methyl-2-pentanone	125	250
A	Acetone	125	250
A	Benzene	13	25
A	Bromobenzene	13	25
A	Bromochloromethane	13	25
A	Bromodichloromethane	13	25
A	Bromoform	13	25
A	Bromomethane	25	50
A	Carbon disulfide	25	50
A	Carbon tetrachloride	13	25
A	Chlorobenzene	13	25
A	Chloroethane	25	50
A	Chloroform	13	25
A	Chloromethane	25	50
A	cis-1,2-Dichloroethene	13	25
A	cis-1,3-Dichloropropene	13	25

AMRO Environmental Laboratories Corp.

Date: 29-May-01

METHOD DETECTION / REPORTING LIMITS

Test Code: 8260_MS
Test Number: SW8260B
Test Name: VOLATILES by GC/MS, Medium-Level
Matrix: Soil Units: µg/Kg

Updated:

Type	Analyte	MDL	PQL
A	Dibromochloromethane	13	25
A	Dibromomethane	13	25
A	Dichlorodifluoromethane	25	50
A	Ethylbenzene	13	25
A	Hexachlorobutadiene	13	25
A	Isopropylbenzene	13	25
A	m,p-Xylene	13	25
A	Methyl tert-butyl ether	13	25
A	Methylene chloride	25	50
A	n-Butylbenzene	13	25
A	n-Propylbenzene	13	25
A	Naphthalene	25	50
A	o-Xylene	13	25
A	sec-Butylbenzene	13	25
A	Styrene	13	25
A	tert-Butylbenzene	13	25
A	Tetrachloroethene	13	25
A	Toluene	13	25
A	trans-1,2-Dichloroethene	13	25
A	trans-1,3-Dichloropropene	13	25
A	Trichloroethene	13	25
A	Trichlorofluoromethane	25	50
A	Vinyl chloride	13	25
I	1,4-Dichlorobenzene-d4	0	0
I	Chlorobenzene-d5	0	0
I	Fluorobenzene	0	0
S	1,2-Dichloroethane-d4	13	25
S	4-Bromofluorobenzene	13	25
S	Dibromofluoromethane	13	25
S	Toluene-d8	13	25

Date: 19-Nov-03

AMRO Environmental Laboratories Corp.

METHOD DETECTION / REPORTING LIMITS

Test Code: 6010
Test Number: SW6010B
Test Name: ICP METALS, TOTAL
Matrix: Aqueous Units: µg/L

Updated:

Type	Analyte	MDL	PQL
A	Aluminum	15	200
A	Antimony	3	20
A	Arsenic	3	50
A	Barium	1	200
A	Beryllium	1	4
A	Boron	20	250
A	Cadmium	1	5
A	Calcium	110	2500
A	Chromium	1	10
A	Cobalt	1	50
A	Copper	1	25
A	Iron	35	100
A	Lead	2	12
A	Lithium	20	100
A	Magnesium	20	2500
A	Manganese	1	15
A	Molybdenum	2	25
A	Nickel	1	40
A	Potassium	41	2500
A	Selenium	27	80
A	Silver	2	7
A	Sodium	20	2500
A	Strontium	1	10
A	Thallium	8	50
A	Tin	8	250
A	Titanium	1	100
A	Vanadium	1	50
A	Zinc	4	20

Appendix E

Field Monitoring and Sampling Forms

E.1 Field Record of Well Gauging Form
E.2 Field Record of Well Gauging, Purging, and Sampling Forms
E.3 Field Record of Surface Water and Sediment Sampling Forms

Appendix E.1

Field Record of Well Gauging Form

FIELD RECORD OF WELL GAUGING

Project Name:	NASB, ME LTM Site 9	Weather:	Sunny 60 Windy	Gauge Date:	4/28/03
Project Number:	2960047	Sounding Method:	Slope Indicator	Gauge Time:	1100
EA Personnel:	CDS / MAC	Equipment:			

Well Id ntification Numb r	Well Lock Status	Stick Up or F.M.	Well Physical Condition	VOC Concentrations Ambient Air (ppm)	VOC Concentrations Well Mouth (ppm)	PVC Casing Elevation (ft)	Well Diameter (inches)	Total Depth of Well (ft)	Installed Depth of Well (ft)	Depth to Water Sep-02 (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	Good	Stick Up	Good	ND	ND	57.35	2	PDB	42.42	11.45	10.49	ND	46.86	O
MW-NASB-070	Good	Stick Up	Good	ND	ND	58.26	2	PUMP	27.32	12.41	11.33	ND	46.93	X
MW-NASB-071	Good	Stick Up	Good	ND	ND	46.25	2	PDB	21.54	2.64	1.89	ND	44.36	O
MW-NASB-072	Good	Stick Up	Good	ND	ND	49.81	2	PDB	14.63	9.76	9.11	ND	40.70	O
MW-NASB-073	Good	Stick Up	Good	ND	ND	51.71	2	32.15	32.12	8.86	7.72	ND	43.99	X
MW-NASB-074	Good	Stick Up	Good	ND	ND	51.68	2	PDB	27.12	9.96	9.32	ND	42.36	O
MW-NASB-075	Good	Stick Up	Good	ND	ND	54.91	2	PDB	21.22	13.91	13.12	ND	41.79	O
MW-NASB-076	Good	Stick Up	Good	ND	ND	52.79	2	PDB	19.94	11.69	10.95	ND	41.84	O
MW-NASB-077	Good	Stick Up	Good	ND	ND	58.89	2	PUMP	37.29	16.41	15.66	ND	43.23	X
MW-NASB-078	Good	Stick Up	Good	ND	ND	53.74	2	PUMP	14.93	11.50	8.60	ND	45.14	X
MW-NASB-079	Good	Stick Up	Good	ND	ND	58.15	2	PUMP	18.92	12.39	11.20	ND	46.95	X
MW-NASB-080	Good	Stick Up	Good	ND	ND	58.51	2	PDB	19.04	11.74	10.58	ND	47.93	O
MW-NASB-081	Good	Stick Up	Good	ND	ND	58.22	2	18.94	18.85	11.51	10.39	ND	47.83	X
MW-NASB-021	Good	Stick Up	Good	ND	ND	57.35	2	PDB	50.30	X	11.06	ND	46.29	O
MW-NASB-022	Good	Stick Up	Good	ND	ND	59.52	2	PDB	17.97	10.50	9.45	ND	50.07	O
MW-NASB-204	Good	Stick Up	Good	ND	ND	62.09	2	17.77	17.93	10.09	9.06	ND	53.03	X
MW-NASB-227	Good	Stick Up	Good	ND	ND	58.39	2	PDB	40.60	10.29	9.54	ND	48.85	O
SG-1C	NA	NA	Good	NA	NA	42.41	NA	NA	NA		2.85	NA	39.96	NA
SG-2	NA	NA	Good	NA	NA	34.41	NA	NA	NA		3.10	NA	37.51	NA
NEX														
MW-NASB-008		F.M.	Good	ND	ND	59.22	2	BAILER		3.65	2.27		56.95	No
MW-NASB-009		F.M.	Good	ND	ND	59.00	2	BAILER		4.40	3.68		55.32	No
MW-NASB-010		F.M.	Good	ND	ND	62.03	2	12.48		6.92	6.41		55.62	No
MW-NASB-023		F.M.	Good	ND	ND	67.29	2	BAILER		8.08	7.16		60.13	No
MW-NASB-024		F.M.	Good	ND	ND	65.31	4	BAILER		6.89	5.90		59.41	No
MW-NASB-025		F.M.	Good	ND	ND	64.34	4	BAILER		6.91	6.42		57.92	No
MW-NASB-026		F.M.	Good	ND	ND	66.61	2	9.32		7.90	7.03		59.58	No
MW-NASB-225		F.M.	Good	ND	ND	64.61	2	14.20		6.87	6.32		58.29	No
MW-NASB-226		F.M.	Good	ND	ND	62.22	2	BAILER		5.11	4.61		57.61	No
MW-NASB-250		F.M.	Good	ND	ND	60.21	1	10.00		4.61	3.42		56.79	No
MW-NASB-251		F.M.	Good	ND	ND	62.39	1	8.55		4.46	4.35		58.04	No
MW-NASB-252		F.M.	Good	ND	ND	59.86	1	11.75		4.17	2.92		56.94	No

Comments:

Appendix E.2

Field Record of Well Gauging, Purging, and Sampling Forms

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 29600.47
Well ID: MW-NASB-069
Field Personnel: SW / MAC
Weather: Clear/cool
Purge Date / Time: 5/8/03 1230
Purge Method: Low flow

Well Lock Status: OK
Well Condition: OK
Stick Up / Down: UP
Well Diameter: 2"

Ambient Air VOC's (ppm)
Well Mouth VOC's (ppm)

Depth to Liquid (ft): 10.63
Well Depth (ft):
Depth to Water (ft):
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
Start	1230	10.70	100	13.60	334	2.94	97	6.08	9
1	1235	10.67	100	13.41	338	1.02	87	6.04	9
2	1240	10.67	100	14.29	337	0.83	86	6.09	5
3	1245	10.67	100	15.14	326	0.68	93	6.04	3
4	1250	10.67	100	15.35	323	0.65	98	6.02	2
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
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20									
21									
22									
23									
24									
25									

Sampling Date: 5/8/03
Sampling Time (Start / End) 1250
Sample Parameters: SVOA / TAL Metals / VOA
Field Bottle ID's:
Sample Bottle ID's: BN-9-22-MW-069
Sample Personnel: SW / MAC

Comments:
MS/MSD
DUPE - BN-9-22-MW-XD4

Page ____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: LTMP- 29600.47.1575 Well ID: MW-NASB-070
Field Personnel: SW/MAC Weather: Cloudy, cool
Purge Date / Time: 5/8/03 0820 Purge Method: low flow

Well Lock Status: good Well Condition: good
Stick Up / Down: Up Well Diameter: 2"

Ambient Air VOC's (ppm) Ø Well Mouth VOC's (ppm) Ø

Depth to Liquid (ft): 11.47 Well Depth (ft):
Depth to Water (ft): Well Volume / 3 Volumes:

Int rval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temper-ature (C)	Conduc-tivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
Start	0820	11.47	200	10.89	110	5.11	284.6	4.78	4.8
1	0825	11.57	200	11.12	114	3.64	258.3	5.30	3.7
2	0830	11.57	200	11.52	117	3.18	223.2	5.49	2.2
3	0835	11.57	200	12.51	116	3.21	204.4	5.67	2.4
4	0840	11.57	200	13.38	117	2.95	195.8	5.77	2.3
5	0845	11.57	200	13.84	116	2.77	193.3	5.80	1.7
6	0850	11.57	200	14.30	116	2.57	192.4	5.80	1.1
7	0855	11.57	200	14.55	115	2.46	191.2	5.81	0.9
8	0900	11.57	200	14.63	114	2.39	189.3	5.82	0.8
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5/8/03
Sampling Time (Start / End) SVOC, TAL Metals
Sample Parameters: 0905/0915
Field Bottle ID's: BN-9-22-MW-NASB-070
Sample Bottle ID's: BN-9-22, MW-NASB-070
Sample Personnel: SW/MAC

Comments:
Sample @ 0905

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: LTMP-296.00.47 1578 | Well ID: MW-NASB-079
Field Personnel: SW/MAC | Weather: cloudy cool
Purge Date / Time: 5/8/03 0920 | Purge Method: low flow

Well Lock Status: locked | Well Condition: good
Stick Up / Down: up | Well Diameter: 2"

Ambient Air VOC's (ppm) Ø | Well Mouth VOC's (ppm) Ø

Depth to Liquid (ft): 11.42 | Well Depth (ft):
Depth to Water (ft): | Well Volume / 3 Volumes:

Int rval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temper-ature (C)	Conduc-tivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
Start	0930	11.42	100	11.92	210	1.84	-79	6.77	146
1	0935	11.47	100	11.68	297	0.66	-130	6.81	151
2	0940	11.48	100	13.98	275	1.04	-146	6.87	112
3	0945	11.48	100	17.21	285	0.30	-179	7.04	65
4	0950	11.53	100	17.93	308	0.21	-192	7.08	37
5	0955	11.52	100	17.81	293	0.37	-186	6.89	24
6	1000	11.51	100	16.71	280	0.17	-184	6.90	27
7	1005	11.48	100	17.30	307	0.12	-186	6.91	25
8	1010	11.48	100	17.14	315	0.16	-190	7.01	19
9	1015	11.58	100	16.70	310	0.16	-183	6.86	16
10	1020	11.58	100	16.71	309	0.15	-182	6.87	10
11	1025	11.58	100	16.35	299	0.18	-174	6.89	8
12	1030	11.58	100	16.16	302	0.19	-167	6.84	6
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5/8/03
Sampling Time (Start / End)
Sample Parameters: SVOC TAL Metals
Field Bottle ID's: BN-9-22-MW-NASB-079
Sample Bottle ID's: BN-9-22-MW-NASB-079
Sample Personnel: SW/MAC

Comments: 0940 - cycled pump
Cycling well regularly to clear sediment

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NOSB-069
Field Personnel: CDS/SR
Weather: OVERCAST
Purge Date / Time: 5-8-03 1035/1040
Purge Method: PDB

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 10.64
Well Volume / 3 Volumes:

Int rval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temper-ature (C)	Conduc-tivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
PDB Start	1035/1040	10.64	PDB	4.59	0.275	X-7.60	43.3	7.04	—
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
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19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 1035/1040
Sample Parameters: VOC
Field Bottle ID's: →
Sample Bottle ID's: →
Sample Personnel: CDS/SR

Comments: 1035
PDB: BN-9-22-DS069S
BN-9-22-DSXD1
1040 BN-9-22-DS069D MS MSD
Equilibrat For 10min
XDO mal Function

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NOSB-071
Field Personnel: CDS/SR
Weather: Overcast
Purge Date / Time: 5-8-03 1005
Purge Method: PDB

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 2.01
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
PDB Start	1005	2.01	PDB	9.93	0.292	~~-29.98~~	20.3	6.75	—
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
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14									
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19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 1005
Sample Parameters: VOC
Field Bottle ID's: BN-~~[illegible]~~9-22-~~[illegible]~~DS071
Sample Bottle ID's: BN-9-22-DS071
Sample Personnel: CDS/SR

Comments:
* DO Malfunction
YSI Allowed to Equilibrate for 10 min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW7ASB-072
Field Personnel: CDS/SR
Weather: OVERCAST 60°
Purge Date / Time: 5-8-03 0920
Purge Method: /

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 9.35
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
PDB Start	0920	9.35	/	7.14	0.109	-2.66 X	50.1	6.67	/
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 0920
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS072
Sample Bottle ID's: " "
Sample Personnel: CDS/SR

Comments:
X DO MALFUNCTION
YSI Allowed TO EQUILIBRATE FOR 10 min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NASB-074
Field Personnel: CDS/SR
Weather: Overcast 60°
Purge Date / Time: 5-8-03 0905
Purge Method: —

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: Good

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 9.46
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
PDB Start	0905	9.46	—	8.60	0.321	-31.9 X	63.7	6.61	—
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) —
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS074
Sample Bottle ID's: " "
Sample Personnel: CDS/SR

Comments:
DO → Malfunction
YSI Allowed to Equilibrate for 10 min

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NASB-075
Field Personnel: CDS / SR
Weather: Sunny
Purge Date / Time: 5-8-03 0830
Purge Method: NA

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 13.31'
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
>DB Start	0830	13.31	NA	10.36	0.348	-20.68 X	77.5	6.23	—
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 0830
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS075
Sample Bottle ID's: " "
Sample Personnel: CDS / SR

Comments:
DO => malfunction
Tried Recalibration But
Still Does NOT work Properly

YSI Allowed To Equilibrate For 10 min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NASB-076
Field Personnel: CDS/SR
Weather: Overcast 60°
Purge Date / Time: 5-8-03 0940
Purge Method: PDB

Well Lock Status: Good
Well Condition: Good / Casing Bent
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 11.18
Well Volume / 3 Volumes:

Int rval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temper-ature (C)	Conduc-tivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
PDB Start	0940	11.18	PDB	9.48	0.315	-20.67X	36.6	6.49	—
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 0940
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS076
Sample Bottle ID's: " "
Sample Personnel: CDS/SR

Comments:
Dup: BN-9-22-DS XD2
XDO malfunction
YSI → allowed to equilibrate for 10 min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NASB-080
Field Personnel: CDS / SR
Weather: Partly Sunny
Purge Date / Time: 5-8-03 1235
Purge Method: PDB

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 10.79
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
Start	1235	10.79	PDB	11.22	0.267	X-25.17	39.8	6.72	/
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
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16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 1235
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS80
Sample Bottle ID's: " "
Sample Personnel: CDS/SR

Comments:
X DO not Functioning
EQ Whole 10 min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047 | Well ID: MW-MASB-021
Field Personnel: CDS/MASB | Weather: Partly Sunny
Purge Date / Time: 5-8-03 1240 | Purge Method: PDB

Well Lock Status: Good | Well Condition: Good
Stick Up / Down: ↑ | Well Diameter: 2"

Ambient Air VOC's (ppm) ND | Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND | Well Depth (ft):
Depth to Water (ft): | Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
PDB Start	1240	11.21	PDB	11.60	0.259	X -23.08	29.3	6.91	✓
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 1240
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS21
Sample Bottle ID's: " "
Sample Personnel: CDS/SR

Comments:
X DO Malfunction
Equilibrate For 10 Min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NASB-022
Field Personnel: CDS/SR
Weather: OVERCAST
Purge Date / Time: 5-8-03 1310
Purge Method: PDB

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 9.55
Well Volume / 3 Volumes:

Int rval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temper-ature (C)	Conduc-tivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
Start	1300	9.55	PDB	8.33	0.350	X-23.84	40.7	6.87	—
1									
2									
3									
4									
5									
6									
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13									
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18									
19									
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22									
23									
24									
25									

DB

Sampling Date: 5-8-03
Sampling Time (Start / End) 1310
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-022
Sample Bottle ID's: " "
Sample Personnel: CDS/CS

Comments:
X DO not Functioning
Equilibrate For 10 min

Page____ of ____

FIELD RECORD OF WELL PURGING AND SAMPLING

Project Name / Number: 2960047
Well ID: MW-NASB-227
Field Personnel: CDS/SR
Weather: Overcast
Purge Date / Time: 5-8-03 1325
Purge Method: PDB

Well Lock Status: Good
Well Condition: Good
Stick Up / Down: ↑
Well Diameter: 2"

Ambient Air VOC's (ppm) ND
Well Mouth VOC's (ppm) ND

Depth to Liquid (ft): ND
Well Depth (ft):
Depth to Water (ft): 9.64
Well Volume / 3 Volumes:

Interval	Time (min)	Depth to Water (ft)	Purge Rate (ml/min)	Temperature (C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	pH	Turbidity (NTU)
Start	1325	9.64	PDB	9.82	0.225	X-24.57	37.6	6.80	NA
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
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21									
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24									
25									

Sampling Date: 5-8-03
Sampling Time (Start / End) 1325
Sample Parameters: VOC
Field Bottle ID's: BN-9-22-DS227
Sample Bottle ID's: " "
Sample Personnel: CDS/SR

Comments:
X DO malfunction
EQ bhut FOV10MIN

Appendix E.3

Field Record of Surface Water and Sediment Sampling Forms

Page____ of ____

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project Name: NASB, ME LTM
Site: Site 9
Project Number: 2960047
Sample Location ID: SW 010 / SeD 010
Date / Time: 5-5-03 ~~0945~~ SW 0952 / SeD 1000
EA Personnel: CDS / SR

SURFACE WATER / LEACHATE SEEP INFORMATION

Type of S.W. (X) Stream ( ) River ( ) Seep ( ) Pond ( ) Lake ( ) Estuary ( ) Ocean

Water Depth: 4"	Dissolved Oxygen (ppm): 8.39 mg/L	**Equip. used f r Coll cti n** (X) None, Grab into Bottle ( ) Bomb Sampler ( ) Pump____
Velocity of Water: 1' @ 3sec	ORP (mV) 61.5	
Temperature (C): 10.5°	pH (units): 6.04	**Field Quality C ntrol Data** Field Duplicate Collected (X) Yes ( ) No
Conductivity (umos/cm): 335 NICW	Turbidity (NTU) 1.4	Field Dup. ID ~~BN-9-22~~ - SWXT

Sample Observations:
(X) Odor NO
( ) Color NO
( ) Other NO

SEDIMENT / LEACHATE SEEP SEDIMENT INFORMATION

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

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

Equip. Us d for Collection
( ) Gravity Core
( ) Stainless Stl. Split Spoon
( ) Dredge
(X) Hand Spoon Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Mod. En-Core Sampler
( ) Other____

Field Quality Control Data
Field Duplicate Collected
(X) Yes ( ) No
Field Dup. ID ~~BN-9-SS~~ BN-9-22-SWS XD1

Sample Observations:
( ) Odor NO
( ) Color BVN
( ) Other NO

SAMPLES COLLECTED

Bottle / Sample Identification	Sample Location	Date / Time	Matrix Aqueous	Matrix Solid	Preservation Method	Required Volume
BN-9-22-SWS010	Site 9	5-5-03 1000		X	Moth	
"	"	"		X	Sodium bisulfit	

Notes / Comments:

Page____ of ____

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Project Name: NASB, ME LTM
Site: Site 9
Project Number: 2960047
Sample Location ID: BN- -S9-LT-901
Date / Time: 5-5-03 1010
EA Personnel: CDS SR

SURFACE WATER / LEACHATE SEEP INFORMATION

Type of S.W. (X) Stream ( ) River (X) Seep ( ) Pond ( ) Lake ( ) Estuary ( ) Ocean

Water Depth: 5"	Dissolved Oxygen (ppm): 7.61	**Equip. used for C ll cti n** (X) None, Grab into Bottle ( ) Bomb Sampler ( ) Pump_____
Velocity of Water: 1' Per Sec	ORP (mV) 68.9	
Temperature (C): 10.77°	pH (units): 6.44	**Field Quality Contr l Data** Field Duplicate Collected (X) Yes ( ) No Field Dup. ID BN-9-22-LT>D
Conductivity (umos/cm): 329 micro	Turbidity (NTU) 0.4	

Sampl Observations:
(X) Odor none
(X) Color Red Brn orange
( ) Other

SEDIMENT / LEACHATE SEEP SEDIMENT INFORMATION

Sed. Type: ( ) Organic ( ) Gravel ( ) Clay ( ) Silt ( ) Sand ( ) Other _____
Typ f Samp. Collected: ( ) Discrete ( ) Composite

Equip. Used for Collection
( ) Gravity Core
( ) Stainless Stl. Split Spoon
( ) Dredge
( ) Hand Spoon Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Mod. En-Core Sampler
( ) Other_____

Field Quality Control Data
Field Duplicate Collected
( ) Yes ( ) No
Field Dup. ID_____

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

SAMPLES COLLECTED

Bottle / Sample Identification	Sample Location	Date / Time	Matrix Aqueous	Matrix Solid	Preservation Method	Required Volume

Not s / Comments:

Appendix F

Engineering Inspection Report

Field Inspection Form

Site: Site 9 Event 22 Date: 4/28/03 Personal: C Springer Weather: Sunny, 60

Well ID	Condition	Locked	Labeled	Depth to Water	Total Depth of Well	Comments
MW-NASB-069	Good	Yes	Yes	11.45	42.42	
MW-NASB-070	Good	Yes	Yes	12.41	27.32	
MW-NASB-071	Good	Yes	Yes	2.64	21.54	
MW-NASB-072	Good	Yes	Yes	9.76	14.63	
MW-NASB-073	Good	Yes	Yes	8.86	32.15	
MW-NASB-074	Good	Yes	Yes	9.96	27.12	
MW-NASB-075	Good	Yes	Yes	13.91	21.22	
MW-NASB-076	Good	Yes	Yes	11.69	19.94	
MW-NASB-077	Good	Yes	Yes	16.41	37.29	
MW-NASB-078	Good	Yes	Yes	11.50	14.93	
MW-NASB-079	Good	Yes	Yes	12.39	18.92	
MW-NASB-080	Good	Yes	Yes	11.74	19.04	
MW-NASB-081	Good	Yes	Yes	11.51	18.94	
MW-NASB-021	Good	Yes	Yes		NC	
MW-NASB-022	Good	Yes	Yes	10.50	17.97	
MW-NASB-204	Good	Yes	Yes	10.09	17.79	
MW-NASB-227	Good	Yes	Yes	10.29	40.60	
LT-901	Good	NA	NA	NA	NA	
SW-010	Good	NA	NA	NA	NA	
SED-010	Good	NA	NA	NA	NA	
SG-1C	Good	NA	NA	NA	NA	
SG-2	Good	NA	NA	NA	NA	

Additional Comments:

1. Stressed Vegetation -

No signs of stressed vegetation were present at Site 9

2. Condition of Geo Textile -

NA

3. Other -

Appendix G

Analytical Report Data Tables

G.1 Groundwater Samples
G.2 Surface Water Samples
G.3 Sediment Samples
G.4 Leachate Station Seep Sample
G.5 Diffusion Samples

Appendix G.1

Groundwater Samples

APPENDIX G.1

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Monitoring Wells	
BN-9-21-MW69	MW-NASB-069
BN-9-21-MWXD4	MW-NASB-069 - Duplicate
BN-9-21-MW70	MW-NASB-070
BN-9-21-MW79	MW-NASB-079
Trip Blank	
BN-9-21-QT5	Trip Blank (QT-05)

AMRO Envir nmental Laboratories C rporation
111 [redacted]k Street
Merri[redacted]ck, NH 03054

CHAIN-OF-CUSTODY RECORD

45593

Office: (603) 424-2022
Fax: (60[redacted]9-8496

Project No.: 29600.47	Project Name: NASB LTMP SITE 9	Project Manager: Al Easterday	Samplers (Signature): Mark Co	AMRO Project No.: 0305080
	Project State: ME			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	TAL Metals	SVOC	VOC										Remarks
BN-9-22-MW-NASB-079	5/8/03 1030	GW	3		x	x	x											
BN-9-22-MW-069	5/8/03 1250	GW	18		x	x	x	x										MS/MSD
BN-9-22-MW-XD4	5/8/03 -	GW	6		x	x	x	x										
BN-9-22-MW-NASB-070	5/8/03 0905	GW	3		x	x	x											

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To:	FAX No.:	Seal Intact? Yes No N/A	P.O. No:	GW-1* ___ GW-2 ___ GW-3 ___
		Results Needed By:		MCP Level Needed: ___
				*= May require additional cost

Relinquished By	Date/ Time	Received By
Mark Co	5/8/03 1445	C Clearley 5-9-03 0930

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**
Samples arriving after 12:00 noon will be tracked and billed as received on the following day.
AUTHORIZATION No. ___ **BY:** ___

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

SHEET **OF**

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

45592

2/2

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 216000.47
Project Name: NASB - Site 9
Project State: ME
Project Manager: Al Easterday
Samplers (Signature): Sunah W. Robert
AMRO Project No.: 0305081

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: VOC 8260												Remarks
BN-9-22-DS227	5.8.03 1325	GW	3 VOA		X	X												
BN-9-22-DSXD1	5.8.03 —	GW	3 VOA		X	X												
BN-9-22-DSXD2	5.8.03 —	GW	3 VOA		X	X												
BN-9-22-QT-5	5.8.03 -	~~TEMP~~ TB	3 VOA		X	X												
BN-9-22-QS11	5.8.03 1430	Equipment blank	3 VOA		X	X												

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To: Al Easterday
333 Turnpike Rd (Rt 9)
Southborough, MA
01772

FAX No.:

Seal Intact? Yes No N/A

P.O. No:

GW-1* GW-2 GW-3

MCP Level Needed:

Results Needed By:

*= May require additional cost

Relinquished By	Date/ Time	Received By
Sunah W. Robert	5.8.03 1445	C Cearley 5-9-03 0930

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.** ***Samples arriving after 12:00 noon will be tracked and billed as received*** **on the following day.**

AUTHORIZATION No. BY:

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy SHEET OF

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-069
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-02C	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
Chloromethane	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
Vinyl chloride	48	2.0		µg/L	1	5/16/03 8:43:00 PM
Chloroethane	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
Bromomethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
Acetone	ND	10		µg/L	1	5/16/03 8:43:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/16/03 8:43:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
trans-1,2-Dichloroethene	1.0	2.0	J	µg/L	1	5/16/03 8:43:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
2-Butanone	ND	10		µg/L	1	5/16/03 8:43:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
cis-1,2-Dichloroethene	30	2.0		µg/L	1	5/16/03 8:43:00 PM
Chloroform	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/16/03 8:43:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Benzene	ND	1.0		µg/L	1	5/16/03 8:43:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/16/03 8:43:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/16/03 8:43:00 PM
Toluene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/16/03 8:43:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
2-Hexanone	ND	10		µg/L	1	5/16/03 8:43:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-069
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-02C	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
o-Xylene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Styrene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Bromoform	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Naphthalene	ND	5.0		µg/L	1	5/16/03 8:43:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/16/03 8:43:00 PM
Surr: Dibromofluoromethane	104	85-120		%REC	1	5/16/03 8:43:00 PM
Surr: 1,2-Dichloroethane-d4	103	80-124		%REC	1	5/16/03 8:43:00 PM
Surr: Toluene-d8	89.9	88-109		%REC	1	5/16/03 8:43:00 PM
Surr: 4-Bromofluorobenzene	90.2	77-117		%REC	1	5/16/03 8:43:00 PM

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-069
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-02B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: **KD**
Phenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	5/20/03 10:34:00 PM
2-Chlorophenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	5/20/03 10:34:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benzyl alcohol	ND	20		µg/L	1	5/20/03 10:34:00 PM
2-Methylphenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	5/20/03 10:34:00 PM
4-Methylphenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	5/20/03 10:34:00 PM
Hexachloroethane	ND	10		µg/L	1	5/20/03 10:34:00 PM
Nitrobenzene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Isophorone	ND	10		µg/L	1	5/20/03 10:34:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benzoic acid	ND	20		µg/L	1	5/20/03 10:34:00 PM
2-Nitrophenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	5/20/03 10:34:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Naphthalene	ND	10		µg/L	1	5/20/03 10:34:00 PM
4-Chloroaniline	ND	10		µg/L	1	5/20/03 10:34:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	5/20/03 10:34:00 PM
4-Chloro-3-methylphenol	ND	20		µg/L	1	5/20/03 10:34:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	5/20/03 10:34:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	5/20/03 10:34:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	5/20/03 10:34:00 PM
2-Nitroaniline	ND	20		µg/L	1	5/20/03 10:34:00 PM
Dimethyl phthalate	ND	10		µg/L	1	5/20/03 10:34:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Acenaphthylene	ND	10		µg/L	1	5/20/03 10:34:00 PM
3-Nitroaniline	ND	20		µg/L	1	5/20/03 10:34:00 PM
4-Nitrophenol	ND	20		µg/L	1	5/20/03 10:34:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	5/20/03 10:34:00 PM
Acenaphthene	ND	10		µg/L	1	5/20/03 10:34:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	5/20/03 10:34:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
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E - Value above quantitation range
- See Case Narrative
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AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-069
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-02B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	5/20/03 10:34:00 PM
Diethyl phthalate	ND	10		µg/L	1	5/20/03 10:34:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	5/20/03 10:34:00 PM
Fluorene	ND	10		µg/L	1	5/20/03 10:34:00 PM
4-Nitroaniline	ND	20		µg/L	1	5/20/03 10:34:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	5/20/03 10:34:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	5/20/03 10:34:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	5/20/03 10:34:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	5/20/03 10:34:00 PM
Hexachlorobenzene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Pentachlorophenol	ND	20		µg/L	1	5/20/03 10:34:00 PM
Phenanthrene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Anthracene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Carbazole	ND	10		µg/L	1	5/20/03 10:34:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	5/20/03 10:34:00 PM
Fluoranthene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Pyrene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	5/20/03 10:34:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	5/20/03 10:34:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benz(a)anthracene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Chrysene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	5/20/03 10:34:00 PM
Surr: 2-Fluorophenol	42.7	21-76		%REC	1	5/20/03 10:34:00 PM
Surr: Phenol-d5	29.8	15-50		%REC	1	5/20/03 10:34:00 PM
Surr: Nitrobenzene-d5	78.0	38-118		%REC	1	5/20/03 10:34:00 PM
Surr: 2-Fluorobiphenyl	75.7	39-109		%REC	1	5/20/03 10:34:00 PM
Surr: 2,4,6-Tribromophenol	81.6	45-124		%REC	1	5/20/03 10:34:00 PM
Surr: 4-Terphenyl-d14	86.8	39-128		%REC	1	5/20/03 10:34:00 PM

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E - Value above quantitation range
- See Case Narrative
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AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT: EA Engineering, Science and Technology
Project: 29600.47 NASB LTMP Site 9
Lab Order: 0305080

Lab ID: 0305080-02
Collection Date: 5/8/03
Client Sample ID: BN-9-22-MW-069
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: **SJC**
Aluminum	55	200	J	µg/L	1	5/19/03 12:06:12 PM
Antimony	ND	20		µg/L	1	5/19/03 12:06:12 PM
Barium	ND	200		µg/L	1	5/19/03 12:06:12 PM
Beryllium	ND	5.0		µg/L	1	5/19/03 12:06:12 PM
Cadmium	ND	5.0		µg/L	1	5/19/03 12:06:12 PM
Calcium	5,600	2,500		µg/L	1	5/19/03 12:06:12 PM
Chromium	ND	10		µg/L	1	5/19/03 12:06:12 PM
Cobalt	ND	50		µg/L	1	5/19/03 12:06:12 PM
Copper	ND	25		µg/L	1	5/19/03 12:06:12 PM
Iron	210	100		µg/L	1	5/19/03 12:06:12 PM
Magnesium	2,400	2,500	J	µg/L	1	5/19/03 12:06:12 PM
Manganese	360	15		µg/L	1	5/19/03 12:06:12 PM
Nickel	ND	40		µg/L	1	5/19/03 12:06:12 PM
Potassium	1,400	2,500	J	µg/L	1	5/19/03 12:06:12 PM
Silver	ND	7.0		µg/L	1	5/19/03 12:06:12 PM
Sodium	55,000	2,500		µg/L	1	5/19/03 12:06:12 PM
Vanadium	ND	50		µg/L	1	5/19/03 12:06:12 PM
Zinc	22	20		µg/L	1	5/19/03 12:06:12 PM
ARSENIC, TOTAL		**SW7060A**				Analyst: **APL**
Arsenic	ND	5.0		µg/L	1	5/23/03 10:32:32 AM
MERCURY, TOTAL		**SW7470A**				Analyst: **RK**
Mercury	ND	0.20		µg/L	1	5/13/03 3:44:16 PM
LEAD, TOTAL		**SW7421**				Analyst: **APL**
Lead	ND	5.0		µg/L	1	5/23/03 10:32:32 AM
SELENIUM, TOTAL		**SW7740**				Analyst: **APL**
Selenium	ND	5.0		µg/L	1	5/23/03 10:32:32 AM
THALLIUM, TOTAL		**SW7841**				Analyst: **APL**
Thallium	ND	5.0		µg/L	1	5/23/03 10:32:32 AM

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E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-XD4
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-03C	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
Chloromethane	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
Vinyl chloride	46	2.0		µg/L	1	5/16/03 9:18:00 PM
Chloroethane	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
Bromomethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
Acetone	ND	10		µg/L	1	5/16/03 9:18:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/16/03 9:18:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
trans-1,2-Dichloroethene	0.77	2.0	J	µg/L	1	5/16/03 9:18:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
2-Butanone	ND	10		µg/L	1	5/16/03 9:18:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
cis-1,2-Dichloroethene	29	2.0		µg/L	1	5/16/03 9:18:00 PM
Chloroform	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/16/03 9:18:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Benzene	ND	1.0		µg/L	1	5/16/03 9:18:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/16/03 9:18:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/16/03 9:18:00 PM
Toluene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/16/03 9:18:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
2-Hexanone	ND	10		µg/L	1	5/16/03 9:18:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
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E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-XD4
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-03C	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
o-Xylene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Styrene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Bromoform	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Naphthalene	ND	5.0		µg/L	1	5/16/03 9:18:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/16/03 9:18:00 PM
Surr: Dibromofluoromethane	103	85-120		%REC	1	5/16/03 9:18:00 PM
Surr: 1,2-Dichloroethane-d4	100	80-124		%REC	1	5/16/03 9:18:00 PM
Surr: Toluene-d8	89.5	88-109		%REC	1	5/16/03 9:18:00 PM
Surr: 4-Bromofluorobenzene	92.1	77-117		%REC	1	5/16/03 9:18:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-XD4
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-03B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: **KD**
Phenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	5/21/03 12:06:00 AM
2-Chlorophenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	5/21/03 12:06:00 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benzyl alcohol	ND	20		µg/L	1	5/21/03 12:06:00 AM
2-Methylphenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	5/21/03 12:06:00 AM
4-Methylphenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	5/21/03 12:06:00 AM
Hexachloroethane	ND	10		µg/L	1	5/21/03 12:06:00 AM
Nitrobenzene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Isophorone	ND	10		µg/L	1	5/21/03 12:06:00 AM
2,4-Dimethylphenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benzoic acid	ND	20		µg/L	1	5/21/03 12:06:00 AM
2-Nitrophenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	5/21/03 12:06:00 AM
2,4-Dichlorophenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Naphthalene	ND	10		µg/L	1	5/21/03 12:06:00 AM
4-Chloroaniline	ND	10		µg/L	1	5/21/03 12:06:00 AM
Hexachlorobutadiene	ND	10		µg/L	1	5/21/03 12:06:00 AM
4-Chloro-3-methylphenol	ND	20		µg/L	1	5/21/03 12:06:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	5/21/03 12:06:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	5/21/03 12:06:00 AM
2-Chloronaphthalene	ND	10		µg/L	1	5/21/03 12:06:00 AM
2-Nitroaniline	ND	20		µg/L	1	5/21/03 12:06:00 AM
Dimethyl phthalate	ND	10		µg/L	1	5/21/03 12:06:00 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Acenaphthylene	ND	10		µg/L	1	5/21/03 12:06:00 AM
3-Nitroaniline	ND	20		µg/L	1	5/21/03 12:06:00 AM
4-Nitrophenol	ND	20		µg/L	1	5/21/03 12:06:00 AM
2,4-Dinitrophenol	ND	20		µg/L	1	5/21/03 12:06:00 AM
Acenaphthene	ND	10		µg/L	1	5/21/03 12:06:00 AM
2,4-Dinitrotoluene	ND	10		µg/L	1	5/21/03 12:06:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-XD4
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-03B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	5/21/03 12:06:00 AM
Diethyl phthalate	ND	10		µg/L	1	5/21/03 12:06:00 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	5/21/03 12:06:00 AM
Fluorene	ND	10		µg/L	1	5/21/03 12:06:00 AM
4-Nitroaniline	ND	20		µg/L	1	5/21/03 12:06:00 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	5/21/03 12:06:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	5/21/03 12:06:00 AM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	5/21/03 12:06:00 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	5/21/03 12:06:00 AM
Hexachlorobenzene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Pentachlorophenol	ND	20		µg/L	1	5/21/03 12:06:00 AM
Phenanthrene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Anthracene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Carbazole	ND	10		µg/L	1	5/21/03 12:06:00 AM
Di-n-butyl phthalate	ND	10		µg/L	1	5/21/03 12:06:00 AM
Fluoranthene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Pyrene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Butyl benzyl phthalate	ND	10		µg/L	1	5/21/03 12:06:00 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	5/21/03 12:06:00 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benz(a)anthracene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Chrysene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Di-n-octyl phthalate	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benzo(a)pyrene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	5/21/03 12:06:00 AM
Surr: 2-Fluorophenol	42.9	21-76		%REC	1	5/21/03 12:06:00 AM
Surr: Phenol-d5	27.9	15-50		%REC	1	5/21/03 12:06:00 AM
Surr: Nitrobenzene-d5	75.5	38-118		%REC	1	5/21/03 12:06:00 AM
Surr: 2-Fluorobiphenyl	71.1	39-109		%REC	1	5/21/03 12:06:00 AM
Surr: 2,4,6-Tribromophenol	74.5	45-124		%REC	1	5/21/03 12:06:00 AM
Surr: 4-Terphenyl-d14	83.8	39-128		%REC	1	5/21/03 12:06:00 AM

Qualifiers:

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H - Method prescribed holding time exceeded
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- See Case Narrative
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AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT: EA Engineering, Science and Technology
Project: 29600.47 NASB LTMP Site 9
Lab Order: 0305080

Lab ID: 0305080-03
Collection Date: 5/8/03
Client Sample ID: BN-9-22-MW-XD4
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: **SJC**
Aluminum	ND	200		µg/L	1	5/19/03 12:36:56 PM
Antimony	ND	20		µg/L	1	5/19/03 12:36:56 PM
Barium	ND	200		µg/L	1	5/19/03 12:36:56 PM
Beryllium	ND	5.0		µg/L	1	5/19/03 12:36:56 PM
Cadmium	ND	5.0		µg/L	1	5/19/03 12:36:56 PM
Calcium	5,500	2,500		µg/L	1	5/19/03 12:36:56 PM
Chromium	ND	10		µg/L	1	5/19/03 12:36:56 PM
Cobalt	ND	50		µg/L	1	5/19/03 12:36:56 PM
Copper	ND	25		µg/L	1	5/19/03 12:36:56 PM
Iron	230	100		µg/L	1	5/19/03 12:36:56 PM
Magnesium	2,400	2,500	J	µg/L	1	5/19/03 12:36:56 PM
Manganese	360	15		µg/L	1	5/19/03 12:36:56 PM
Nickel	ND	40		µg/L	1	5/19/03 12:36:56 PM
Potassium	1,400	2,500	J	µg/L	1	5/19/03 12:36:56 PM
Silver	ND	7.0		µg/L	1	5/19/03 12:36:56 PM
Sodium	54,000	2,500		µg/L	1	5/19/03 12:36:56 PM
Vanadium	ND	50		µg/L	1	5/19/03 12:36:56 PM
Zinc	11	20	J	µg/L	1	5/19/03 12:36:56 PM
ARSENIC, TOTAL		**SW7060A**				Analyst: **APL**
Arsenic	ND	5.0		µg/L	1	5/23/03 9:18:08 PM
MERCURY, TOTAL		**SW7470A**				Analyst: **RK**
Mercury	ND	0.20		µg/L	1	5/13/03 4:07:49 PM
LEAD, TOTAL		**SW7421**				Analyst: **APL**
Lead	ND	5.0		µg/L	1	5/23/03 9:18:08 PM
SELENIUM, TOTAL		**SW7740**				Analyst: **APL**
Selenium	ND	5.0		µg/L	1	5/23/03 9:18:08 PM
THALLIUM, TOTAL		**SW7841**				Analyst: **APL**
Thallium	ND	5.0		µg/L	1	5/23/03 9:18:08 PM

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H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-NASB-070
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-04B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: **KD**
Phenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
Bis(2-chloroethyl)ether	ND	11		µg/L	1	5/21/03 12:37:00 AM
2-Chlorophenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
1,3-Dichlorobenzene	ND	11		µg/L	1	5/21/03 12:37:00 AM
1,4-Dichlorobenzene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benzyl alcohol	ND	21		µg/L	1	5/21/03 12:37:00 AM
2-Methylphenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
1,2-Dichlorobenzene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Bis(2-chloroisopropyl)ether	ND	11		µg/L	1	5/21/03 12:37:00 AM
4-Methylphenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	5/21/03 12:37:00 AM
Hexachloroethane	ND	11		µg/L	1	5/21/03 12:37:00 AM
Nitrobenzene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Isophorone	ND	11		µg/L	1	5/21/03 12:37:00 AM
2,4-Dimethylphenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benzoic acid	ND	21		µg/L	1	5/21/03 12:37:00 AM
2-Nitrophenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
Bis(2-chloroethoxy)methane	ND	11		µg/L	1	5/21/03 12:37:00 AM
2,4-Dichlorophenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
1,2,4-Trichlorobenzene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Naphthalene	ND	11		µg/L	1	5/21/03 12:37:00 AM
4-Chloroaniline	ND	11		µg/L	1	5/21/03 12:37:00 AM
Hexachlorobutadiene	ND	11		µg/L	1	5/21/03 12:37:00 AM
4-Chloro-3-methylphenol	ND	21		µg/L	1	5/21/03 12:37:00 AM
2-Methylnaphthalene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Hexachlorocyclopentadiene	ND	11		µg/L	1	5/21/03 12:37:00 AM
2,4,6-Trichlorophenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
2,4,5-Trichlorophenol	ND	11		µg/L	1	5/21/03 12:37:00 AM
2-Chloronaphthalene	ND	11		µg/L	1	5/21/03 12:37:00 AM
2-Nitroaniline	ND	21		µg/L	1	5/21/03 12:37:00 AM
Dimethyl phthalate	ND	11		µg/L	1	5/21/03 12:37:00 AM
2,6-Dinitrotoluene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Acenaphthylene	ND	11		µg/L	1	5/21/03 12:37:00 AM
3-Nitroaniline	ND	21		µg/L	1	5/21/03 12:37:00 AM
4-Nitrophenol	ND	21		µg/L	1	5/21/03 12:37:00 AM
2,4-Dinitrophenol	ND	21		µg/L	1	5/21/03 12:37:00 AM
Acenaphthene	ND	11		µg/L	1	5/21/03 12:37:00 AM
2,4-Dinitrotoluene	ND	11		µg/L	1	5/21/03 12:37:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
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R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-NASB-070
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-04B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	11		µg/L	1	5/21/03 12:37:00 AM
Diethyl phthalate	ND	11		µg/L	1	5/21/03 12:37:00 AM
4-Chlorophenyl phenyl ether	ND	11		µg/L	1	5/21/03 12:37:00 AM
Fluorene	ND	11		µg/L	1	5/21/03 12:37:00 AM
4-Nitroaniline	ND	21		µg/L	1	5/21/03 12:37:00 AM
4,6-Dinitro-2-methylphenol	ND	21		µg/L	1	5/21/03 12:37:00 AM
N-Nitrosodiphenylamine	ND	11		µg/L	1	5/21/03 12:37:00 AM
1,2-Diphenylhydrazine (as Azobenzene)	ND	11		µg/L	1	5/21/03 12:37:00 AM
4-Bromophenyl phenyl ether	ND	11		µg/L	1	5/21/03 12:37:00 AM
Hexachlorobenzene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Pentachlorophenol	ND	21		µg/L	1	5/21/03 12:37:00 AM
Phenanthrene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Anthracene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Carbazole	ND	11		µg/L	1	5/21/03 12:37:00 AM
Di-n-butyl phthalate	ND	11		µg/L	1	5/21/03 12:37:00 AM
Fluoranthene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Pyrene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Butyl benzyl phthalate	ND	11		µg/L	1	5/21/03 12:37:00 AM
Bis(2-ethylhexyl)phthalate	ND	11		µg/L	1	5/21/03 12:37:00 AM
3,3'-Dichlorobenzidine	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benz(a)anthracene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Chrysene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Di-n-octyl phthalate	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benzo(b)fluoranthene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benzo(k)fluoranthene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benzo(a)pyrene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Dibenz(a,h)anthracene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Benzo(g,h,i)perylene	ND	11		µg/L	1	5/21/03 12:37:00 AM
Surr: 2-Fluorophenol	37.2	21-76		%REC	1	5/21/03 12:37:00 AM
Surr: Phenol-d5	24.1	15-50		%REC	1	5/21/03 12:37:00 AM
Surr: Nitrobenzene-d5	70.3	38-118		%REC	1	5/21/03 12:37:00 AM
Surr: 2-Fluorobiphenyl	62.0	39-109		%REC	1	5/21/03 12:37:00 AM
Surr: 2,4,6-Tribromophenol	66.0	45-124		%REC	1	5/21/03 12:37:00 AM
Surr: 4-Terphenyl-d14	77.9	39-128		%REC	1	5/21/03 12:37:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
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AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT: EA Engineering, Science and Technology
Project: 29600.47 NASB LTMP Site 9
Lab Order: 0305080

Lab ID: 0305080-04
Collection Date: 5/8/03
Client Sample ID: BN-9-22-MW-NASB-070
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: **SJC**
Aluminum	ND	200		µg/L	1	5/19/03 12:51:25 PM
Antimony	ND	20		µg/L	1	5/19/03 12:51:25 PM
Barium	ND	200		µg/L	1	5/19/03 12:51:25 PM
Beryllium	ND	5.0		µg/L	1	5/19/03 12:51:25 PM
Cadmium	ND	5.0		µg/L	1	5/19/03 12:51:25 PM
Calcium	11,000	2,500		µg/L	1	5/19/03 12:51:25 PM
Chromium	3.6	10	J	µg/L	1	5/19/03 12:51:25 PM
Cobalt	ND	50		µg/L	1	5/19/03 12:51:25 PM
Copper	ND	25		µg/L	1	5/19/03 12:51:25 PM
Iron	64	100	J	µg/L	1	5/19/03 12:51:25 PM
Magnesium	1,100	2,500	J	µg/L	1	5/19/03 12:51:25 PM
Manganese	260	15		µg/L	1	5/19/03 12:51:25 PM
Nickel	ND	40		µg/L	1	5/19/03 12:51:25 PM
Potassium	ND	2,500		µg/L	1	5/19/03 12:51:25 PM
Silver	ND	7.0		µg/L	1	5/19/03 12:51:25 PM
Sodium	7,500	2,500		µg/L	1	5/19/03 12:51:25 PM
Vanadium	ND	50		µg/L	1	5/19/03 12:51:25 PM
Zinc	ND	20		µg/L	1	5/19/03 12:51:25 PM
ARSENIC, TOTAL		**SW7060A**				Analyst: **APL**
Arsenic	ND	5.0		µg/L	1	5/23/03 9:26:24 PM
MERCURY, TOTAL		**SW7470A**				Analyst: **RK**
Mercury	ND	0.20		µg/L	1	5/13/03 4:11:46 PM
LEAD, TOTAL		**SW7421**				Analyst: **APL**
Lead	ND	5.0		µg/L	1	5/23/03 9:26:24 PM
SELENIUM, TOTAL		**SW7740**				Analyst: **APL**
Selenium	ND	5.0		µg/L	1	5/23/03 9:26:24 PM
THALLIUM, TOTAL		**SW7841**				Analyst: **APL**
Thallium	ND	5.0		µg/L	1	5/23/03 9:26:24 PM

Qualifiers:

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AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-MW-NASB-079
Lab Order:	0305080		
Project:	29600.47 NASB LTMP Site 9	**Collection Date:**	5/8/03
Lab ID:	0305080-01B	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: **KD**
Phenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	5/20/03 10:03:00 PM
2-Chlorophenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	5/20/03 10:03:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benzyl alcohol	ND	20		µg/L	1	5/20/03 10:03:00 PM
2-Methylphenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	5/20/03 10:03:00 PM
4-Methylphenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	5/20/03 10:03:00 PM
Hexachloroethane	ND	10		µg/L	1	5/20/03 10:03:00 PM
Nitrobenzene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Isophorone	ND	10		µg/L	1	5/20/03 10:03:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benzoic acid	ND	20		µg/L	1	5/20/03 10:03:00 PM
2-Nitrophenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	5/20/03 10:03:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Naphthalene	ND	10		µg/L	1	5/20/03 10:03:00 PM
4-Chloroaniline	ND	10		µg/L	1	5/20/03 10:03:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	5/20/03 10:03:00 PM
4-Chloro-3-methylphenol	ND	20		µg/L	1	5/20/03 10:03:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	5/20/03 10:03:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	5/20/03 10:03:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	5/20/03 10:03:00 PM
2-Nitroaniline	ND	20		µg/L	1	5/20/03 10:03:00 PM
Dimethyl phthalate	ND	10		µg/L	1	5/20/03 10:03:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Acenaphthylene	ND	10		µg/L	1	5/20/03 10:03:00 PM
3-Nitroaniline	ND	20		µg/L	1	5/20/03 10:03:00 PM
4-Nitrophenol	ND	20		µg/L	1	5/20/03 10:03:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	5/20/03 10:03:00 PM
Acenaphthene	ND	10		µg/L	1	5/20/03 10:03:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	5/20/03 10:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-MW-NASB-079
Lab Order: 0305080
Project: 29600.47 NASB LTMP Site 9
Collection Date: 5/8/03
Lab ID: 0305080-01B
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	5/20/03 10:03:00 PM
Diethyl phthalate	ND	10		µg/L	1	5/20/03 10:03:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	5/20/03 10:03:00 PM
Fluorene	ND	10		µg/L	1	5/20/03 10:03:00 PM
4-Nitroaniline	ND	20		µg/L	1	5/20/03 10:03:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	5/20/03 10:03:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	5/20/03 10:03:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	5/20/03 10:03:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	5/20/03 10:03:00 PM
Hexachlorobenzene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Pentachlorophenol	ND	20		µg/L	1	5/20/03 10:03:00 PM
Phenanthrene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Anthracene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Carbazole	ND	10		µg/L	1	5/20/03 10:03:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	5/20/03 10:03:00 PM
Fluoranthene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Pyrene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	5/20/03 10:03:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	5/20/03 10:03:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benz(a)anthracene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Chrysene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	5/20/03 10:03:00 PM
Surr: 2-Fluorophenol	45.9	21-76		%REC	1	5/20/03 10:03:00 PM
Surr: Phenol-d5	31.0	15-50		%REC	1	5/20/03 10:03:00 PM
Surr: Nitrobenzene-d5	81.2	38-118		%REC	1	5/20/03 10:03:00 PM
Surr: 2-Fluorobiphenyl	77.6	39-109		%REC	1	5/20/03 10:03:00 PM
Surr: 2,4,6-Tribromophenol	86.0	45-124		%REC	1	5/20/03 10:03:00 PM
Surr: 4-Terphenyl-d14	90.4	39-128		%REC	1	5/20/03 10:03:00 PM

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-May-03*

CLIENT: EA Engineering, Science and Technology
Project: 29600.47 NASB LTMP Site 9
Lab Order: 0305080

Lab ID: 0305080-01
Collection Date: 5/8/03
Client Sample ID: BN-9-22-MW-NASB-079
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: **SJC**
Aluminum	250	200		µg/L	1	5/19/03 12:31:37 PM
Antimony	9.3	20	J	µg/L	1	5/19/03 12:31:37 PM
Barium	320	200		µg/L	1	5/19/03 12:31:37 PM
Beryllium	1.9	5.0	J	µg/L	1	5/19/03 12:31:37 PM
Cadmium	1.5	5.0	J	µg/L	1	5/19/03 12:31:37 PM
Calcium	29,000	2,500		µg/L	1	5/19/03 12:31:37 PM
Chromium	9.8	10	J	µg/L	1	5/19/03 12:31:37 PM
Cobalt	11	50	J	µg/L	1	5/19/03 12:31:37 PM
Copper	ND	25		µg/L	1	5/19/03 12:31:37 PM
Iron	26,000	100		µg/L	1	5/19/03 12:31:37 PM
Magnesium	2,200	2,500	J	µg/L	1	5/19/03 12:31:37 PM
Manganese	130	15		µg/L	1	5/19/03 12:31:37 PM
Nickel	8.4	40	J	µg/L	1	5/19/03 12:31:37 PM
Potassium	3,300	2,500		µg/L	1	5/19/03 12:31:37 PM
Silver	ND	7.0		µg/L	1	5/19/03 12:31:37 PM
Sodium	5,600	2,500		µg/L	1	5/19/03 12:31:37 PM
Vanadium	10	50	J	µg/L	1	5/19/03 12:31:37 PM
Zinc	17	20	J	µg/L	1	5/19/03 12:31:37 PM
ARSENIC, TOTAL		**SW7060A**				Analyst: **APL**
Arsenic	ND	5.0		µg/L	1	5/23/03 9:09:39 PM
MERCURY, TOTAL		**SW7470A**				Analyst: **RK**
Mercury	ND	0.20		µg/L	1	5/13/03 4:03:52 PM
LEAD, TOTAL		**SW7421**				Analyst: **APL**
Lead	ND	5.0		µg/L	1	5/23/03 9:09:39 PM
SELENIUM, TOTAL		**SW7740**				Analyst: **APL**
Selenium	ND	5.0		µg/L	1	5/23/03 9:09:39 PM
THALLIUM, TOTAL		**SW7841**				Analyst: **APL**
Thallium	ND	5.0		µg/L	1	5/23/03 9:09:39 PM

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QT-5
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-14A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Chloromethane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Chloroethane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Bromomethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Acetone	ND	10		µg/L	1	5/17/03 11:50:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
2-Butanone	ND	10		µg/L	1	5/17/03 11:50:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Chloroform	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 11:50:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Benzene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 11:50:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
Toluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
2-Hexanone	ND	10		µg/L	1	5/17/03 11:50:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM

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AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-QT-5
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-14A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
o-Xylene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Styrene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Bromoform	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Naphthalene	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Surr: Dibromofluoromethane	103	85-120		%REC	1	5/17/03 11:50:00 AM
Surr: 1,2-Dichloroethane-d4	99.2	80-124		%REC	1	5/17/03 11:50:00 AM
Surr: Toluene-d8	92.6	88-109		%REC	1	5/17/03 11:50:00 AM
Surr: 4-Bromofluorobenzene	90.9	77-117		%REC	1	5/17/03 11:50:00 AM

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
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Appendix G.2

Surface Water Samples

APPENDIX G.2

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Surface Water Samples	
BN-9-22-SW-010	SW-010
BN-9-22-SW-XD1	SW-010 - Duplicate
Trip Blank	
BN-9-22-QT3	Trip Blank (QT-03)
Equipment Rinsate Blank	
BN-9-22-QS3	Rinsate Blank (QS-03)
Source Water Blank	
BN-9-22-QD2	Source Water Blank (QD-02)

AMRO Envir nmental Lab rat ries C rporation
111 He[redacted] Street
Merrim[redacted], NH 03054

CHAIN-OF-CUSTODY RECORD

45589

Office: (603) 424-2022
Fax: (603[redacted]8496

Project No.:	Project Name: NASB Site 9	Project Manager: Al Easkrday	Samplers (Signature):	AMRO Project No.: 0305062
	Project State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	~~VOC PYS 3/ TICs 2/ NAPOL~~		VOC PYS. 3/ HCl										Remarks
BN-9-22-SW010	5/5/03 0950	(SB) ~~S~~ SW	9 voa		X			X										MS/MSD
BN-9-22-SWXD1	5/5/03 —	(SB) ~~S~~ SW	3 voa		X			X										
BN-9-22-QS3	5/5/03 1045	rinse blank	3 voa		X			X										
BN-9-22-LT901	5/5/03 1010	(SB) ~~S~~ SW	3 voa		X			X										
BN-9-22-LTXD1	5/5/03 —	(SB) ~~S~~ SW	3 voa		X			X										
BN-9-22-QS2	5/5/03 1040	rinse blank	3 voa		X			X										
BN-9-22-QT3	5/5/03 0952	trip blank	3 voa		X			X										
Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other								Cl										
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other								G										

Send Results To: Al Easterday
333 Turnpike Rd. (Rt 9)
Southborough, MA
01772

FAX No.:

Seal Intact? Yes No N/A

P.O. No:

GW-1* GW-2 GW-3

MCP Level Needed:

Results Needed By:

*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	5-7-03 1400	[signature] 5-8-03 9:05

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.** ***Samples arriving after 12:00 noon will be tracked and billed as received on the following day.***

AUTHORIZATION No. BY:

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are res lved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy SHEET OF

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

45216

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 2960047	Project Name: LTMP NASB	Project Manager: AL EASTONLAY	Samplers (Signature):	AMRO Project No.: 0304173
	Project State: MAINE			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: 8260B VOC												Remarks
BN-9-GD2	4/22/03 0900	Water	3		X	X												

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To:	FAX No.:	Seal Intact? Yes No N/A	P.O. No:	GW-1* GW-2 GW-3
		Results Needed By:		MCP Level Needed:
				*= May require additional cost

Relinquished By	Date/ Time	Received By
	4/22/03 1500	10:00 4-23-03

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.** ***Samples arriving after 12:00 noon will be tracked and billed as received on the following day.***

AUTHORIZATION No. _____ **BY:** _____

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc; 10 Business Day Turnaround

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

SHEET **OF**

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SW010
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-01A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: KT
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
Chloromethane	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Chloroethane	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
Bromomethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
Acetone	ND	10		µg/L	1	5/14/03 10:04:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 10:04:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
2-Butanone	ND	10		µg/L	1	5/14/03 10:04:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Chloroform	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 10:04:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Benzene	ND	1.0		µg/L	1	5/14/03 10:04:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 10:04:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 10:04:00 AM
Toluene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 10:04:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
2-Hexanone	ND	10		µg/L	1	5/14/03 10:04:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SW010
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-01A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
o-Xylene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Styrene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Bromoform	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Naphthalene	ND	5.0		µg/L	1	5/14/03 10:04:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 10:04:00 AM
Surr: Dibromofluoromethane	93.9	85-120		%REC	1	5/14/03 10:04:00 AM
Surr: 1,2-Dichloroethane-d4	84.9	80-124		%REC	1	5/14/03 10:04:00 AM
Surr: Toluene-d8	98.5	88-109		%REC	1	5/14/03 10:04:00 AM
Surr: 4-Bromofluorobenzene	110	77-117		%REC	1	5/14/03 10:04:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWXD1
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-02A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
Chloromethane	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Chloroethane	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
Bromomethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
Acetone	ND	10		µg/L	1	5/14/03 12:23:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 12:23:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
2-Butanone	ND	10		µg/L	1	5/14/03 12:23:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Chloroform	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 12:23:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Benzene	ND	1.0		µg/L	1	5/14/03 12:23:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 12:23:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 12:23:00 PM
Toluene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 12:23:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
2-Hexanone	ND	10		µg/L	1	5/14/03 12:23:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
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R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWXD1
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-02A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
o-Xylene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Styrene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Bromoform	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Naphthalene	ND	5.0		µg/L	1	5/14/03 12:23:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:23:00 PM
Surr: Dibromofluoromethane	96.4	85-120		%REC	1	5/14/03 12:23:00 PM
Surr: 1,2-Dichloroethane-d4	85.7	80-124		%REC	1	5/14/03 12:23:00 PM
Surr: Toluene-d8	98.5	88-109		%REC	1	5/14/03 12:23:00 PM
Surr: 4-Bromofluorobenzene	109	77-117		%REC	1	5/14/03 12:23:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QT3
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-10A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Chloromethane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Chloroethane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Bromomethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Acetone	ND	10		µg/L	1	5/14/03 9:30:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
2-Butanone	ND	10		µg/L	1	5/14/03 9:30:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Chloroform	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 9:30:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Benzene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 9:30:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
Toluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
2-Hexanone	ND	10		µg/L	1	5/14/03 9:30:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QT3
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-10A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
o-Xylene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Styrene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Bromoform	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Naphthalene	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Surr: Dibromofluoromethane	98.5	85-120		%REC	1	5/14/03 9:30:00 AM
Surr: 1,2-Dichloroethane-d4	87.4	80-124		%REC	1	5/14/03 9:30:00 AM
Surr: Toluene-d8	98.2	88-109		%REC	1	5/14/03 9:30:00 AM
Surr: 4-Bromofluorobenzene	103	77-117		%REC	1	5/14/03 9:30:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QS3
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-03A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 12:57:00 PM
Chloromethane	ND	5.0		µg/L	1	5/14/03 12:57:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Chloroethane	ND	5.0		µg/L	1	5/14/03 12:57:00 PM
Bromomethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 12:57:00 PM
Acetone	9.2	10	J	µg/L	1	5/14/03 12:57:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 12:57:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Methylene chloride	1.7	5.0	J	µg/L	1	5/14/03 12:57:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
2-Butanone	ND	10		µg/L	1	5/14/03 12:57:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Chloroform	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 12:57:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Benzene	ND	1.0		µg/L	1	5/14/03 12:57:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 12:57:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 12:57:00 PM
Toluene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 12:57:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
2-Hexanone	ND	10		µg/L	1	5/14/03 12:57:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QS3
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-03A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
o-Xylene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Styrene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Bromoform	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 12:57:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Naphthalene	ND	5.0		µg/L	1	5/14/03 12:57:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 12:57:00 PM
Surr: Dibromofluoromethane	98.7	85-120		%REC	1	5/14/03 12:57:00 PM
Surr: 1,2-Dichloroethane-d4	84.8	80-124		%REC	1	5/14/03 12:57:00 PM
Surr: Toluene-d8	98.3	88-109		%REC	1	5/14/03 12:57:00 PM
Surr: 4-Bromofluorobenzene	109	77-117		%REC	1	5/14/03 12:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-QD2
Lab Order: 0304173
Project: 2960047 LTMP NASB
Collection Date: 4/22/03
Lab ID: 0304173-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Ethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
m,p-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
o-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Styrene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromoform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Naphthalene	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Surr: Dibromofluoromethane	97.5	85-120		%REC	1	4/25/03 4:19:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	80-124		%REC	1	4/25/03 4:19:00 PM
Surr: Toluene-d8	98.1	88-109		%REC	1	4/25/03 4:19:00 PM
Surr: 4-Bromofluorobenzene	105	77-117		%REC	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-QD2
Lab Order: 0304173
Project: 2960047 LTMP NASB
Collection Date: 4/22/03
Lab ID: 0304173-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Ethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
m,p-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
o-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Styrene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromoform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Naphthalene	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Surr: Dibromofluoromethane	97.5	85-120		%REC	1	4/25/03 4:19:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	80-124		%REC	1	4/25/03 4:19:00 PM
Surr: Toluene-d8	98.1	88-109		%REC	1	4/25/03 4:19:00 PM
Surr: 4-Bromofluorobenzene	105	77-117		%REC	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Appendix G.3

Sediment Samples

APPENDIX G.3

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Sediment Samples	
BN-9-22-SWS-010	SED-010
BN-9-22-SWSXD1	SED-010 - Duplicate
Trip Blank	
BN-9-22-QT4	Trip Blank (QT-04)
Equipment Rinsate Blank	
BN-9-22-QS4	Rinsate Blank (QS-04)
Source Water Blank	
BN-9-22-QD2	Source Water Blank (QD-02)

AMRO Envir nmental Lab rat ries Corporation
111 H[illegible] Street
Merrim[illegible], NH 03054

CHAIN-OF-CUSTODY RECORD

45586

Office: (603) 424-2022
Fax: (60[illegible] -8496

Project No.:	Project Name:	Project Manager:	Samplers (Signature):	AMRO Project No.:
2960047 1575	LTMP NASB	AL Eastwood	[signature]	0305062
	Project State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: % Solid													Remarks
BN-9-22-SWS010	5-13-03 1500	S	1		X	X													
BN-9-22-SWSXD1	↓	S	1		X	X													

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To:

FAX No.:

Seal Intact? Yes No N/A

P.O. No:

Results Needed By:

GW-1* GW-2 GW-3

MCP Level Needed:

*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	5-13-03 1530	
	1030 5/14/03	[signature]

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**

Samples arriving after 12:00 noon will be tracked and billed as received on the following day.

AUTHORIZATION No. BY:

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy SHEET OF

6/75

qc/qcmemos/forms/amrococ/Rev.2 04/01/02

AMRO Envir nmental Lab rat ries Corporati n
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

45588

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 29000.47 1575	Project Name: NASB Site 09	Project Manager: Al Easterday	Samplers (Signature):	AMRO Project No.: 0305062
	Project State: ME			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	VOC preserved w/ NaSO4	VOC preserved w/ MeOH	VOC preserved w/ HCl										Remarks
BN-9-22-SWS-010	5/5	Soil	9/VOA		x	6	3											MS/MSD
BN-9-22-SWS-X01		Soil	3/VOA		x	2	1											
BN-9-22-SWS-QS-1		rinse blank	3/VOA		x			3										
BN-9-22-SWS-QT-1		trip blank	2/VOA		x	1	1											

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To: Al Easterday
333 Turnpike Rd
Southborough MA 01772

FAX No.:

Seal Intact? Yes No N/A

P.O. No:

GW-1* GW-2 GW-3

MCP Level Needed:

Results Needed By:

*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	5-7-03 1400	[signature] 5-8-03 9:05

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**

Samples arriving after 12:00 noon will be tracked and billed as received on the following day.

AUTHORIZATION No. BY:

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy SHEET OF

4175

AMRO Environmental Laboratories Corporation
111 He[redacted] Street
Merrim[redacted], NH 03054

CHAIN-OF-CUSTODY RECORD

45216

Office: (603) 424-2022
Fax: (603[redacted]8496

Project No.: 2960047	Project Name: LTMP NASB	Project Manager: AL Easyoulty	Samplers (Signature):	AMRO Project No.: 0304173
	Project State: Maine			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: 8260BVOC													Remarks
BN-9-GD2	4/22/03 0900	Water	3		X	X													

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To:	FAX No.:	Seal Intact? Yes No N/A	P.O. No:	GW-1* GW-2 GW-3
		Results Needed By:		MCP Level Needed:
				*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	4/22/03 1500	[signature] 10:00 4-23-03

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**
Samples arriving after 12:00 noon will be tracked and billed as received on the following day.
AUTHORIZATION No. _____ **BY:** _____

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;
10 Business Days Turnaround

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

SHEET **OF**

4/29

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-010
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-08A	**Matrix:**	SEDIMENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 5035 LOW-LEVEL		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Chloromethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Vinyl chloride	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Chloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Bromomethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Trichlorofluoromethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Diethyl ether	ND	12		µg/Kg-dry	1	5/16/03 11:20:00 AM
Acetone	ND	58		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1-Dichloroethene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Carbon disulfide	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Methylene chloride	ND	29		µg/Kg-dry	1	5/16/03 11:20:00 AM
Methyl tert-butyl ether	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
trans-1,2-Dichloroethene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1-Dichloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
2-Butanone	ND	29		µg/Kg-dry	1	5/16/03 11:20:00 AM
2,2-Dichloropropane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
cis-1,2-Dichloroethene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Chloroform	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Tetrahydrofuran	ND	29		µg/Kg-dry	1	5/16/03 11:20:00 AM
Bromochloromethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1,1-Trichloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1-Dichloropropene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Carbon tetrachloride	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2-Dichloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Benzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Trichloroethene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2-Dichloropropane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Bromodichloromethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Dibromomethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
4-Methyl-2-pentanone	ND	29		µg/Kg-dry	1	5/16/03 11:20:00 AM
cis-1,3-Dichloropropene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Toluene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
trans-1,3-Dichloropropene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1,2-Trichloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2-Dibromoethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
2-Hexanone	ND	29		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,3-Dichloropropane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Tetrachloroethene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-010
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-08A	**Matrix:**	SEDIMENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Chlorobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1,1,2-Tetrachloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Ethylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
m,p-Xylene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
o-Xylene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Styrene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Bromoform	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Isopropylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,1,2,2-Tetrachloroethane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2,3-Trichloropropane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Bromobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
n-Propylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
2-Chlorotoluene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
4-Chlorotoluene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,3,5-Trimethylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
tert-Butylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2,4-Trimethylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
sec-Butylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
4-Isopropyltoluene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,3-Dichlorobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,4-Dichlorobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
n-Butylbenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2-Dichlorobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2-Dibromo-3-chloropropane	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2,4-Trichlorobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Hexachlorobutadiene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Naphthalene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
1,2,3-Trichlorobenzene	ND	5.8		µg/Kg-dry	1	5/16/03 11:20:00 AM
Surr: Dibromofluoromethane	97.5	94-127		%REC	1	5/16/03 11:20:00 AM
Surr: 1,2-Dichloroethane-d4	113	80-141		%REC	1	5/16/03 11:20:00 AM
Surr: Toluene-d8	90.4	93-112	S	%REC	1	5/16/03 11:20:00 AM
Surr: 4-Bromofluorobenzene	87.6	76-116		%REC	1	5/16/03 11:20:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-XD1
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-09A	**Matrix:**	SEDIMENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 5035 LOW-LEVEL		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Chloromethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Vinyl chloride	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Chloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Bromomethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Trichlorofluoromethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Diethyl ether	ND	11		µg/Kg-dry	1	5/14/03 6:45:00 PM
Acetone	ND	55		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1-Dichloroethene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Carbon disulfide	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Methylene chloride	ND	27		µg/Kg-dry	1	5/14/03 6:45:00 PM
Methyl tert-butyl ether	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
trans-1,2-Dichloroethene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1-Dichloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
2-Butanone	ND	27		µg/Kg-dry	1	5/14/03 6:45:00 PM
2,2-Dichloropropane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
cis-1,2-Dichloroethene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Chloroform	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Tetrahydrofuran	ND	27		µg/Kg-dry	1	5/14/03 6:45:00 PM
Bromochloromethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1,1-Trichloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1-Dichloropropene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Carbon tetrachloride	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2-Dichloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Benzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Trichloroethene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2-Dichloropropane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Bromodichloromethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Dibromomethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
4-Methyl-2-pentanone	ND	27		µg/Kg-dry	1	5/14/03 6:45:00 PM
cis-1,3-Dichloropropene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Toluene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
trans-1,3-Dichloropropene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1,2-Trichloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2-Dibromoethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
2-Hexanone	ND	27		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,3-Dichloropropane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Tetrachloroethene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-XD1
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-09A	**Matrix:**	SEDIMENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Chlorobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1,1,2-Tetrachloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Ethylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
m,p-Xylene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
o-Xylene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Styrene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Bromoform	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Isopropylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,1,2,2-Tetrachloroethane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2,3-Trichloropropane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Bromobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
n-Propylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
2-Chlorotoluene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
4-Chlorotoluene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,3,5-Trimethylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
tert-Butylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2,4-Trimethylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
sec-Butylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
4-Isopropyltoluene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,3-Dichlorobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,4-Dichlorobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
n-Butylbenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2-Dichlorobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2-Dibromo-3-chloropropane	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2,4-Trichlorobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Hexachlorobutadiene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Naphthalene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
1,2,3-Trichlorobenzene	ND	5.5		µg/Kg-dry	1	5/14/03 6:45:00 PM
Surr: Dibromofluoromethane	97.9	94-127		%REC	1	5/14/03 6:45:00 PM
Surr: 1,2-Dichloroethane-d4	106	80-141		%REC	1	5/14/03 6:45:00 PM
Surr: Toluene-d8	91.3	93-112	S	%REC	1	5/14/03 6:45:00 PM
Surr: 4-Bromofluorobenzene	84.1	76-116		%REC	1	5/14/03 6:45:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-QT4
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-11A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS, EPA 5035 LOW-LEVEL		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Chloromethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Chloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Bromomethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Diethyl ether	ND	10		µg/Kg	1	5/14/03 6:13:00 PM
Acetone	ND	50		µg/Kg	1	5/14/03 6:13:00 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Carbon disulfide	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Methylene chloride	ND	25		µg/Kg	1	5/14/03 6:13:00 PM
Methyl tert-butyl ether	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
2-Butanone	ND	25		µg/Kg	1	5/14/03 6:13:00 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Chloroform	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Tetrahydrofuran	ND	25		µg/Kg	1	5/14/03 6:13:00 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Carbon tetrachloride	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Benzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Dibromomethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
4-Methyl-2-pentanone	ND	25		µg/Kg	1	5/14/03 6:13:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Toluene	5.6	5.0		µg/Kg	1	5/14/03 6:13:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
2-Hexanone	ND	25		µg/Kg	1	5/14/03 6:13:00 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-QT4
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-11A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Chlorobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Ethylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
m,p-Xylene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
o-Xylene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Styrene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Bromoform	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Isopropylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Bromobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
n-Propylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
tert-Butylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
sec-Butylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
n-Butylbenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Naphthalene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/14/03 6:13:00 PM
Surr: Dibromofluoromethane	98.6	94-127		%REC	1	5/14/03 6:13:00 PM
Surr: 1,2-Dichloroethane-d4	116	80-141		%REC	1	5/14/03 6:13:00 PM
Surr: Toluene-d8	93.0	93-112		%REC	1	5/14/03 6:13:00 PM
Surr: 4-Bromofluorobenzene	85.7	76-116		%REC	1	5/14/03 6:13:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-QS4
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-07A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 4:25:00 PM
Chloromethane	ND	5.0		µg/L	1	5/14/03 4:25:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Chloroethane	ND	5.0		µg/L	1	5/14/03 4:25:00 PM
Bromomethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 4:25:00 PM
Acetone	10	10		µg/L	1	5/14/03 4:25:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 4:25:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Methylene chloride	1.7	5.0	J	µg/L	1	5/14/03 4:25:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
2-Butanone	ND	10		µg/L	1	5/14/03 4:25:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Chloroform	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 4:25:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Benzene	ND	1.0		µg/L	1	5/14/03 4:25:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 4:25:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 4:25:00 PM
Toluene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 4:25:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
2-Hexanone	ND	10		µg/L	1	5/14/03 4:25:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-SWS-QS4
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-07A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
o-Xylene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Styrene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Bromoform	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 4:25:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Naphthalene	ND	5.0		µg/L	1	5/14/03 4:25:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 4:25:00 PM
Surr: Dibromofluoromethane	94.2	85-120		%REC	1	5/14/03 4:25:00 PM
Surr: 1,2-Dichloroethane-d4	86.2	80-124		%REC	1	5/14/03 4:25:00 PM
Surr: Toluene-d8	95.3	88-109		%REC	1	5/14/03 4:25:00 PM
Surr: 4-Bromofluorobenzene	105	77-117		%REC	1	5/14/03 4:25:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-QD2
Lab Order: 0304173
Project: 2960047 LTMP NASB
Collection Date: 4/22/03
Lab ID: 0304173-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Ethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
m,p-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
o-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Styrene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromoform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Naphthalene	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Surr: Dibromofluoromethane	97.5	85-120		%REC	1	4/25/03 4:19:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	80-124		%REC	1	4/25/03 4:19:00 PM
Surr: Toluene-d8	98.1	88-109		%REC	1	4/25/03 4:19:00 PM
Surr: 4-Bromofluorobenzene	105	77-117		%REC	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-QD2
Lab Order: 0304173
Project: 2960047 LTMP NASB
Collection Date: 4/22/03
Lab ID: 0304173-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Ethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
m,p-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
o-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Styrene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromoform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Naphthalene	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Surr: Dibromofluoromethane	97.5	85-120		%REC	1	4/25/03 4:19:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	80-124		%REC	1	4/25/03 4:19:00 PM
Surr: Toluene-d8	98.1	88-109		%REC	1	4/25/03 4:19:00 PM
Surr: 4-Bromofluorobenzene	105	77-117		%REC	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
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R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Appendix G.4

Leachate Station Seep Sample

APPENDIX G.4

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
LT-901 (Seep) Samples	
BN-9-22-LT901	LT-901
BN-9-22-LTXD1	LT-901 - Duplicate
Trip Blank	
BN-9-22-QT3	Trip Blank (QT-03)
Equipment Rinsate Blank	
BN-9-22-QS2	Rinsate Blank (QS-02)
Source Water Blank	
BN-9-22-QD2	Source Water Blank (QD-02)

AMRO Environmental Lab rat ries C rporation
111 H[redacted]k Street
Merri[redacted]k, NH 03054

CHAIN-OF-CUSTODY RECORD

45589

Office: (603) 424-2022
Fax: (60[redacted]-8496

Project No.:	Project Name: NASB Site 9	Project Manager: Al Easterday	Samplers (Signature):	AMRO Project No.: 0305062
	Pr ject State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	~~VOC pres. w/ methanol~~	~~VOC pres. w/ NaHSO4~~	VOC pres. w/ HCl										Remarks
BN-9-22-SW010	5/5/03 0950	(SP) ~~S~~ SW	9 voa		X			X										MS/MSD
BN-9-22-SWXD1	5/5/03 —	(SP) ~~S~~ SW	3 voa		X			X										
BN-9-22-QS3	5/5/03 1045	rinse blank	3 voa		X			X										
BN-9-22-LT901	5/5/03 1010	(SP) ~~S~~ SW	3 voa		X			X										
BN-9-22-LTXD1	5/5/03 —	(SP) ~~S~~ SW	3 voa		X			X										
BN-9-22-QS2	5/5/03 1040	rinse blank	3 voa		X			X										
BN-9-22-QT3	5/5/03 0952	trip blank	3 voa		X			X										

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other — Cl
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other — G

Send Results To:	FAX No.:	Seal Intact? Yes No N/A	P.O. No:	GW-1* ___ GW-2 ___ GW-3 ___
Al Easterday, 333 Turnpike Rd. (Rt 9), Southborough, MA 01772		Results Needed By:		MCP Level Needed: ___
				*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	5-7-03 1400	[signature] 9:05 5-8-03

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**
Samples arriving after 12:00 noon will be tracked and billed as received on the following day.
AUTHORIZATION No. ___ BY: ___

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy SHEET OF

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

45216

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 2960047	Project Name: LTMP NASB	Project Manager: AL Easterday	Samplers (Signature):	AMRO Project No.: 0304173
	Project State: Maine			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: 8260B VOC													Remarks
BN-9-QD2	4/22/03 0900	Water	3		X	X													
Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other																			
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other																			

4/28

Send Results To:	FAX No.:	Seal Intact? Yes No N/A	P.O. No:	GW-1* GW-2 GW-3
		Results Needed By:		MCP Level Needed:
				*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	4/22/03 1500	[signature] 4-23-03 10:00

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**
Samples arriving after 12:00 noon will be tracked and billed as received on the following day.
AUTHORIZATION No. _____ **BY:** _____

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;
10 Business Day Turnaround

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

SHEET **OF**

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-LT901
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-04A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
Chloromethane	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Chloroethane	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
Bromomethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
Acetone	ND	10		µg/L	1	5/14/03 2:41:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 2:41:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
2-Butanone	ND	10		µg/L	1	5/14/03 2:41:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Chloroform	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 2:41:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Benzene	ND	1.0		µg/L	1	5/14/03 2:41:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 2:41:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 2:41:00 PM
Toluene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 2:41:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
2-Hexanone	ND	10		µg/L	1	5/14/03 2:41:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-LT901
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-04A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
o-Xylene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Styrene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Bromoform	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Naphthalene	ND	5.0		µg/L	1	5/14/03 2:41:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 2:41:00 PM
Surr: Dibromofluoromethane	92.8	85-120		%REC	1	5/14/03 2:41:00 PM
Surr: 1,2-Dichloroethane-d4	85.6	80-124		%REC	1	5/14/03 2:41:00 PM
Surr: Toluene-d8	95.0	88-109		%REC	1	5/14/03 2:41:00 PM
Surr: 4-Bromofluorobenzene	107	77-117		%REC	1	5/14/03 2:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-LTXD1
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-05A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
Chloromethane	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Chloroethane	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
Bromomethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
Acetone	ND	10		µg/L	1	5/14/03 3:15:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 3:15:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
2-Butanone	ND	10		µg/L	1	5/14/03 3:15:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Chloroform	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 3:15:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Benzene	ND	1.0		µg/L	1	5/14/03 3:15:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 3:15:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 3:15:00 PM
Toluene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 3:15:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
2-Hexanone	ND	10		µg/L	1	5/14/03 3:15:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-LTXD1
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-05A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
o-Xylene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Styrene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Bromoform	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Naphthalene	ND	5.0		µg/L	1	5/14/03 3:15:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:15:00 PM
Surr: Dibromofluoromethane	91.6	85-120		%REC	1	5/14/03 3:15:00 PM
Surr: 1,2-Dichloroethane-d4	84.6	80-124		%REC	1	5/14/03 3:15:00 PM
Surr: Toluene-d8	97.1	88-109		%REC	1	5/14/03 3:15:00 PM
Surr: 4-Bromofluorobenzene	108	77-117		%REC	1	5/14/03 3:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QT3
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-10A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Chloromethane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Chloroethane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Bromomethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Acetone	ND	10		µg/L	1	5/14/03 9:30:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
2-Butanone	ND	10		µg/L	1	5/14/03 9:30:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Chloroform	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 9:30:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Benzene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 9:30:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
Toluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 9:30:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
2-Hexanone	ND	10		µg/L	1	5/14/03 9:30:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QT3
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-10A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
o-Xylene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Styrene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Bromoform	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Naphthalene	ND	5.0		µg/L	1	5/14/03 9:30:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 9:30:00 AM
Surr: Dibromofluoromethane	98.5	85-120		%REC	1	5/14/03 9:30:00 AM
Surr: 1,2-Dichloroethane-d4	87.4	80-124		%REC	1	5/14/03 9:30:00 AM
Surr: Toluene-d8	98.2	88-109		%REC	1	5/14/03 9:30:00 AM
Surr: 4-Bromofluorobenzene	103	77-117		%REC	1	5/14/03 9:30:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QS2
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-06A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/14/03 3:50:00 PM
Chloromethane	ND	5.0		µg/L	1	5/14/03 3:50:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Chloroethane	ND	5.0		µg/L	1	5/14/03 3:50:00 PM
Bromomethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/14/03 3:50:00 PM
Acetone	8.5	10	J	µg/L	1	5/14/03 3:50:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/14/03 3:50:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Methylene chloride	1.8	5.0	J	µg/L	1	5/14/03 3:50:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
2-Butanone	ND	10		µg/L	1	5/14/03 3:50:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Chloroform	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/14/03 3:50:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Benzene	ND	1.0		µg/L	1	5/14/03 3:50:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/14/03 3:50:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 3:50:00 PM
Toluene	0.51	2.0	J	µg/L	1	5/14/03 3:50:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/14/03 3:50:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
2-Hexanone	ND	10		µg/L	1	5/14/03 3:50:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QS2
Lab Order:	0305062		
Project:	NASB Site 9	**Collection Date:**	5/5/03
Lab ID:	0305062-06A	**Matrix:**	SURFACE WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
o-Xylene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Styrene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Bromoform	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/14/03 3:50:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Naphthalene	ND	5.0		µg/L	1	5/14/03 3:50:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/14/03 3:50:00 PM
Surr: Dibromofluoromethane	95.9	85-120		%REC	1	5/14/03 3:50:00 PM
Surr: 1,2-Dichloroethane-d4	84.6	80-124		%REC	1	5/14/03 3:50:00 PM
Surr: Toluene-d8	94.5	88-109		%REC	1	5/14/03 3:50:00 PM
Surr: 4-Bromofluorobenzene	110	77-117		%REC	1	5/14/03 3:50:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-QD2
Lab Order: 0304173
Project: 2960047 LTMP NASB
Collection Date: 4/22/03
Lab ID: 0304173-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Chloromethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chloroethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Bromomethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Diethyl ether	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Acetone	ND	10		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Carbon disulfide	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Methylene chloride	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Butanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chloroform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Tetrahydrofuran	ND	10		µg/L	1	4/25/03 4:19:00 PM
Bromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Benzene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Trichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Dibromomethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Toluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Hexanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-QD2
Lab Order: 0304173
Project: 2960047 LTMP NASB
Collection Date: 4/22/03
Lab ID: 0304173-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Chloromethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chloroethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Bromomethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Diethyl ether	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Acetone	ND	10		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Carbon disulfide	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Methylene chloride	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Butanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chloroform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Tetrahydrofuran	ND	10		µg/L	1	4/25/03 4:19:00 PM
Bromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Benzene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Trichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Dibromomethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Toluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Hexanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Appendix G.5

Diffusion Samples

APPENDIX G.5

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK

Sample Designation	Sample Station
Diffusion Samples	
BN-9-22-DS69S	MW-NASB-069 (shallow)
BN-9-22-DS69D	MW-NASB-069 (deep)
BN-9-22-DSXD1	MW-NASB-069 (shallow) –Duplicate
BN-9-22-DS71	MW-NASB-071 (deep)
BN-9-22-DS72	MW-NASB-072 (deep)
BN-9-22-DS74	MW-NASB-074 (deep)
BN-9-22-DS75	MW-NASB-075 (deep)
BN-9-22-DS76	MW-NASB-076 (deep)
BN-9-22-DSXD2	MW-NASB-076 (deep) - Duplicate
BN-9-22-DS80	MW-NASB-080 (deep)
BN-9-22-DS21	MW-NASB-021 (deep)
BN-9-22-DS22	MW-NASB-022 (deep)
BN-9-22-DS227	MW-NASB-227 (deep)
Trip Blank	
BN-22-S9-QT5	Trip Blank (QT-05)
Diffusion Rinse Blank	
BN-9-22-QS11	Rinsate Blank (QS-011)
Source Water Blank	
BN-9-22-QD2	Source Water Blank (QD-02)

AMRO Envir nmental Laborat ries Corp rati n
111 [redacted]ick Street
Mer[redacted]ck, NH 03054

CHAIN-OF-CUSTODY RECORD

45592

2/2

Office: (603) 424-2022
Fax: (6[redacted]29-8496

Project No.: 296000.47	Project Name: NASB - Site 9	Project Manager: Al Easterday	Samplers (Signature): Sunah W. Robert	AMRO Project No.: 0305081
	Project State: ME			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: VOC 8260	Remarks
BN-9-22-DS277	5.8.03 1325	GW	3 voa		X	X	
BN-9-22-DSXD1	5.8.03 —	GW	3 voa		X	X	
BN-9-22-DSXD2	5.8.03 —	GW	3 voa		X	X	
BN-9-22-QT-5	5.8.03 -	~~TEMPER~~ TB	3 VOA		X	X	
BN-9-22-QS11	5.8.03 1430	Equipment blank	3 voa		X	X	

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To:	FAX No.:	Seal Intact?	P.O. No:	GW-1* ___ GW-2 ___ GW-3 ___
Al Easterday 333 Turnpike Rd (Rt 9) Southborough, MA 01772		Yes No N/A Results Needed By:		MCP Level Needed: ___ *= May require additional cost

Relinquished By	Date/ Time	Received By
Sunah W. Robert	5.8.03 1445	C Clearley 5-9-03 0930

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.** ***Samples arriving after 12:00 noon will be tracked and billed as received*** **on the following day.**

AUTHORIZATION No. ___ BY: ___

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

SHEET **OF**

AMRO Environmental Laboratories C rporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

45591

1/2

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 296UD.47	Project Name: NASB-Site 9	Project Manager: Al Easterday	Samplers (Signature): Sarah W. Robert	AMRO Project No.: 0305081
	Project State: ME			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: VOC 8260	Remarks
BN-9-22-DS21	5.8.03 1240	GW	3 voa		X	X	
BN-9-22-DSØ22	5.8.03 1310	GW	3 voa		X	X	
BN-9-22-DSØ69S	5.8.03 1035	GW	3 voa		X	X	
BN-9-22-DSØ69D MS/MSD	5.8.03 1040	GW	9 voa		X	X	
BN-9-22-DSØ71	5.8.03 1005	GW	3 voa		X	X	
BN-9-22-DSØ72	5.8.03 920	GW	3 voa		X	X	
BN-9-22-DSØ74	5.8.03 905	GW	3 voa		X	X	
BN-9-22-DSØ75	5.8.03 830	GW	3 voa		X	X	
BN-9-22-DSØ76	5.8.03 940	GW	3 voa		X	X	
BN-9-22-DS8Ø	5.8.03 1235	GW	3 voa		X	X	

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To: Al Easterday
333 Turnpike Rd. (Rt 9)
Southborough, MA
01772 ~~021~~

FAX No.:

Seal Intact? Yes No N/A

P.O. No:

Results Needed By:

GW-1* GW-2 GW-3

MCP Level Needed:

*= May require additional cost

Relinquished By	Date/ Time	Received By
Sarah W. Robert	5.8.03 1445	C Cearley 5-9-03 0930

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**

Samples arriving after 12:00 noon will be tracked and billed as received on the following day.

AUTHORIZATION No. **BY:**

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy **SHEET** **OF**

qc/qcmemos/forms/amrococ/Rev.2 04/01/02

AMRO Environmental Laboratories Corporation
111 He[redacted]k Street
Merri[redacted], NH 03054

CHAIN-OF-CUSTODY RECORD

45216

Office: (603) 424-2022
Fax: (603[redacted]8496

Project No.: 2960047	Project Name: LTMP NASB	Project Manager: AL Easyoulty	Samplers (Signature):	AMRO Project No.: 0304173
	Project State: Maine			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Comp	Grab	Analysis Required: 8260B VOC													Remarks
BN-9-GD2	4/22/03 0900	Water	3		X	X													

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Send Results To:	FAX No.:	Seal Intact? Yes No N/A	P.O. No:	GW-1* GW-2 GW-3
		Results Needed By:		MCP Level Needed:
				*= May require additional cost

Relinquished By	Date/ Time	Received By
[signature]	4/22/03 1500	[signature] 10:00 4-23-03

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded **AUTHORIZATION NUMBER.**
Samples arriving after 12:00 noon will be tracked and billed as received on the following day.
AUTHORIZATION No. _____ **BY:** _____

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;
10 Business Days Turn Around

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

SHEET **OF**

4/29

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS069S
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-03A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
Acetone	ND	10		µg/L	1	5/17/03 1:36:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 1:36:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 1:36:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
cis-1,2-Dichloroethene	3.2	2.0		µg/L	1	5/17/03 1:36:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 1:36:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 1:36:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 1:36:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 1:36:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 1:36:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 1:36:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-DS069S
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-03A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 1:36:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:36:00 PM
Surr: Dibromofluoromethane	106	85-120		%REC	1	5/17/03 1:36:00 PM
Surr: 1,2-Dichloroethane-d4	99.6	80-124		%REC	1	5/17/03 1:36:00 PM
Surr: Toluene-d8	91.4	88-109		%REC	1	5/17/03 1:36:00 PM
Surr: 4-Bromofluorobenzene	93.0	77-117		%REC	1	5/17/03 1:36:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS069D
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-04A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
Vinyl chloride	3.6	2.0		µg/L	1	5/17/03 2:11:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
Acetone	ND	10		µg/L	1	5/17/03 2:11:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 2:11:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 2:11:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
cis-1,2-Dichloroethene	6.2	2.0		µg/L	1	5/17/03 2:11:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Tetrahydrofuran	2.8	10	J	µg/L	1	5/17/03 2:11:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 2:11:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 2:11:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 2:11:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 2:11:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 2:11:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-DS069D
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-04A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 2:11:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 2:11:00 PM
Surr: Dibromofluoromethane	103	85-120		%REC	1	5/17/03 2:11:00 PM
Surr: 1,2-Dichloroethane-d4	103	80-124		%REC	1	5/17/03 2:11:00 PM
Surr: Toluene-d8	93.0	88-109		%REC	1	5/17/03 2:11:00 PM
Surr: 4-Bromofluorobenzene	91.7	77-117		%REC	1	5/17/03 2:11:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DSXD1
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-12A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JSL**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
Chloromethane	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
Vinyl chloride	0.77	2.0	J	µg/L	1	5/19/03 10:58:00 AM
Chloroethane	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
Bromomethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
Acetone	ND	10		µg/L	1	5/19/03 10:58:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/03 10:58:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
2-Butanone	ND	10		µg/L	1	5/19/03 10:58:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
cis-1,2-Dichloroethene	3.1	2.0		µg/L	1	5/19/03 10:58:00 AM
Chloroform	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Tetrahydrofuran	2.7	10	J	µg/L	1	5/19/03 10:58:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Benzene	ND	1.0		µg/L	1	5/19/03 10:58:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/03 10:58:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/03 10:58:00 AM
Toluene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/03 10:58:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
2-Hexanone	ND	10		µg/L	1	5/19/03 10:58:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DSXD1
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-12A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
o-Xylene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Styrene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Bromoform	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Naphthalene	ND	5.0		µg/L	1	5/19/03 10:58:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/19/03 10:58:00 AM
Surr: Dibromofluoromethane	103	85-120		%REC	1	5/19/03 10:58:00 AM
Surr: 1,2-Dichloroethane-d4	97.6	80-124		%REC	1	5/19/03 10:58:00 AM
Surr: Toluene-d8	91.2	88-109		%REC	1	5/19/03 10:58:00 AM
Surr: 4-Bromofluorobenzene	89.4	77-117		%REC	1	5/19/03 10:58:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS071
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-05A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
Acetone	ND	10		µg/L	1	5/17/03 4:32:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 4:32:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 4:32:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 4:32:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 4:32:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 4:32:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 4:32:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 4:32:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 4:32:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-DS071
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-05A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 4:32:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 4:32:00 PM
Surr: Dibromofluoromethane	101	85-120		%REC	1	5/17/03 4:32:00 PM
Surr: 1,2-Dichloroethane-d4	99.7	80-124		%REC	1	5/17/03 4:32:00 PM
Surr: Toluene-d8	90.6	88-109		%REC	1	5/17/03 4:32:00 PM
Surr: 4-Bromofluorobenzene	91.2	77-117		%REC	1	5/17/03 4:32:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS072
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-06A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
Acetone	ND	10		µg/L	1	5/17/03 5:08:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 5:08:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 5:08:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Tetrahydrofuran	2.6	10	J	µg/L	1	5/17/03 5:08:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 5:08:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 5:08:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 5:08:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 5:08:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 5:08:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS072
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-06A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 5:08:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:08:00 PM
Surr: Dibromofluoromethane	107	85-120		%REC	1	5/17/03 5:08:00 PM
Surr: 1,2-Dichloroethane-d4	106	80-124		%REC	1	5/17/03 5:08:00 PM
Surr: Toluene-d8	93.0	88-109		%REC	1	5/17/03 5:08:00 PM
Surr: 4-Bromofluorobenzene	91.5	77-117		%REC	1	5/17/03 5:08:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-DS074
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-07A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
Acetone	ND	10		µg/L	1	5/17/03 5:43:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 5:43:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 5:43:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
cis-1,2-Dichloroethene	1.8	2.0	J	µg/L	1	5/17/03 5:43:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Tetrahydrofuran	2.8	10	J	µg/L	1	5/17/03 5:43:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 5:43:00 PM
Trichloroethene	1.0	2.0	J	µg/L	1	5/17/03 5:43:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 5:43:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 5:43:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 5:43:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 5:43:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS074
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-07A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 5:43:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 5:43:00 PM
Surr: Dibromofluoromethane	102	85-120		%REC	1	5/17/03 5:43:00 PM
Surr: 1,2-Dichloroethane-d4	102	80-124		%REC	1	5/17/03 5:43:00 PM
Surr: Toluene-d8	91.5	88-109		%REC	1	5/17/03 5:43:00 PM
Surr: 4-Bromofluorobenzene	88.9	77-117		%REC	1	5/17/03 5:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS075
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-08A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
Acetone	ND	10		µg/L	1	5/17/03 6:19:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 6:19:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 6:19:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Tetrahydrofuran	2.6	10	J	µg/L	1	5/17/03 6:19:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 6:19:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 6:19:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 6:19:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 6:19:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 6:19:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS075
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-08A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 6:19:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:19:00 PM
Surr: Dibromofluoromethane	101	85-120		%REC	1	5/17/03 6:19:00 PM
Surr: 1,2-Dichloroethane-d4	101	80-124		%REC	1	5/17/03 6:19:00 PM
Surr: Toluene-d8	88.8	88-109		%REC	1	5/17/03 6:19:00 PM
Surr: 4-Bromofluorobenzene	91.2	77-117		%REC	1	5/17/03 6:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS076
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-09A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
Acetone	ND	10		µg/L	1	5/17/03 6:54:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 6:54:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 6:54:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 6:54:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 6:54:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 6:54:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 6:54:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 6:54:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 6:54:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-DS076
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-09A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 6:54:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 6:54:00 PM
Surr: Dibromofluoromethane	103	85-120		%REC	1	5/17/03 6:54:00 PM
Surr: 1,2-Dichloroethane-d4	104	80-124		%REC	1	5/17/03 6:54:00 PM
Surr: Toluene-d8	89.8	88-109		%REC	1	5/17/03 6:54:00 PM
Surr: 4-Bromofluorobenzene	92.3	77-117		%REC	1	5/17/03 6:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DSXD2
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-13A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JSL**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
Chloromethane	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
Vinyl chloride	0.67	2.0	J	µg/L	1	5/19/03 11:33:00 AM
Chloroethane	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
Bromomethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
Acetone	ND	10		µg/L	1	5/19/03 11:33:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/03 11:33:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
2-Butanone	ND	10		µg/L	1	5/19/03 11:33:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Chloroform	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Tetrahydrofuran	ND	10		µg/L	1	5/19/03 11:33:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Benzene	ND	1.0		µg/L	1	5/19/03 11:33:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/03 11:33:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/03 11:33:00 AM
Toluene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/03 11:33:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
2-Hexanone	ND	10		µg/L	1	5/19/03 11:33:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DSXD2
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-13A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
o-Xylene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Styrene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Bromoform	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Naphthalene	ND	5.0		µg/L	1	5/19/03 11:33:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/19/03 11:33:00 AM
Surr: Dibromofluoromethane	97.6	85-120		%REC	1	5/19/03 11:33:00 AM
Surr: 1,2-Dichloroethane-d4	94.8	80-124		%REC	1	5/19/03 11:33:00 AM
Surr: Toluene-d8	90.8	88-109		%REC	1	5/19/03 11:33:00 AM
Surr: 4-Bromofluorobenzene	89.2	77-117		%REC	1	5/19/03 11:33:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS080
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-10A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
Vinyl chloride	1.2	2.0	J	µg/L	1	5/17/03 7:29:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
Acetone	ND	10		µg/L	1	5/17/03 7:29:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 7:29:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 7:29:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 7:29:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Benzene	0.52	1.0	J	µg/L	1	5/17/03 7:29:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 7:29:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 7:29:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 7:29:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 7:29:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS080
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-10A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 7:29:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 7:29:00 PM
Surr: Dibromofluoromethane	107	85-120		%REC	1	5/17/03 7:29:00 PM
Surr: 1,2-Dichloroethane-d4	106	80-124		%REC	1	5/17/03 7:29:00 PM
Surr: Toluene-d8	92.6	88-109		%REC	1	5/17/03 7:29:00 PM
Surr: 4-Bromofluorobenzene	91.7	77-117		%REC	1	5/17/03 7:29:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS21
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-01A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
Acetone	5.1	10	J	µg/L	1	5/17/03 12:25:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 12:25:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 12:25:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 12:25:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 12:25:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 12:25:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 12:25:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 12:25:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 12:25:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS21
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-01A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 12:25:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 12:25:00 PM
Surr: Dibromofluoromethane	102	85-120		%REC	1	5/17/03 12:25:00 PM
Surr: 1,2-Dichloroethane-d4	100	80-124		%REC	1	5/17/03 12:25:00 PM
Surr: Toluene-d8	93.0	88-109		%REC	1	5/17/03 12:25:00 PM
Surr: 4-Bromofluorobenzene	91.2	77-117		%REC	1	5/17/03 12:25:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS022
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-02A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Trichlorofluoromethane	400	20		µg/L	10	5/19/03 1:55:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
Acetone	ND	10		µg/L	1	5/17/03 1:01:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 1:01:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 1:01:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Tetrahydrofuran	2.6	10	J	µg/L	1	5/17/03 1:01:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 1:01:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 1:01:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 1:01:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 1:01:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 1:01:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS022
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-02A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 1:01:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 1:01:00 PM
Surr: Dibromofluoromethane	104	85-120		%REC	1	5/17/03 1:01:00 PM
Surr: 1,2-Dichloroethane-d4	102	80-124		%REC	1	5/17/03 1:01:00 PM
Surr: Toluene-d8	94.4	88-109		%REC	1	5/17/03 1:01:00 PM
Surr: 4-Bromofluorobenzene	91.1	77-117		%REC	1	5/17/03 1:01:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS227
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-11A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
Chloromethane	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Chloroethane	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
Bromomethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
Acetone	ND	10		µg/L	1	5/17/03 8:04:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 8:04:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
Methyl tert-butyl ether	0.60	2.0	J	µg/L	1	5/17/03 8:04:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
2-Butanone	ND	10		µg/L	1	5/17/03 8:04:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
cis-1,2-Dichloroethene	1.8	2.0	J	µg/L	1	5/17/03 8:04:00 PM
Chloroform	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 8:04:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Benzene	ND	1.0		µg/L	1	5/17/03 8:04:00 PM
Trichloroethene	1.2	2.0	J	µg/L	1	5/17/03 8:04:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 8:04:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 8:04:00 PM
Toluene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 8:04:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
2-Hexanone	ND	10		µg/L	1	5/17/03 8:04:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-DS227
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-11A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
m,p-Xylene	0.78	2.0	J	µg/L	1	5/17/03 8:04:00 PM
o-Xylene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Styrene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Bromoform	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Naphthalene	ND	5.0		µg/L	1	5/17/03 8:04:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 8:04:00 PM
Surr: Dibromofluoromethane	105	85-120		%REC	1	5/17/03 8:04:00 PM
Surr: 1,2-Dichloroethane-d4	102	80-124		%REC	1	5/17/03 8:04:00 PM
Surr: Toluene-d8	90.6	88-109		%REC	1	5/17/03 8:04:00 PM
Surr: 4-Bromofluorobenzene	90.9	77-117		%REC	1	5/17/03 8:04:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QT-5
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-14A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Chloromethane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Vinyl chloride	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Chloroethane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Bromomethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Diethyl ether	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Acetone	ND	10		µg/L	1	5/17/03 11:50:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
Carbon disulfide	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
2-Butanone	ND	10		µg/L	1	5/17/03 11:50:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Chloroform	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Tetrahydrofuran	ND	10		µg/L	1	5/17/03 11:50:00 AM
Bromochloromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Benzene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
Trichloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Dibromomethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/17/03 11:50:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
Toluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/17/03 11:50:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
2-Hexanone	ND	10		µg/L	1	5/17/03 11:50:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-QT-5
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-14A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Chlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Ethylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
m,p-Xylene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
o-Xylene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Styrene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Bromoform	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Bromobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Naphthalene	ND	5.0		µg/L	1	5/17/03 11:50:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/17/03 11:50:00 AM
Surr: Dibromofluoromethane	103	85-120		%REC	1	5/17/03 11:50:00 AM
Surr: 1,2-Dichloroethane-d4	99.2	80-124		%REC	1	5/17/03 11:50:00 AM
Surr: Toluene-d8	92.6	88-109		%REC	1	5/17/03 11:50:00 AM
Surr: 4-Bromofluorobenzene	90.9	77-117		%REC	1	5/17/03 11:50:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-22-QS11
Lab Order:	0305081		
Project:	29600.47 NASB-Site 9	**Collection Date:**	5/8/03
Lab ID:	0305081-15A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **JSL**
Dichlorodifluoromethane	ND	5.0		µg/L	1	5/19/03 12:09:00 PM
Chloromethane	ND	5.0		µg/L	1	5/19/03 12:09:00 PM
Vinyl chloride	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Chloroethane	ND	5.0		µg/L	1	5/19/03 12:09:00 PM
Bromomethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Diethyl ether	ND	5.0		µg/L	1	5/19/03 12:09:00 PM
Acetone	39	10		µg/L	1	5/19/03 12:09:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/03 12:09:00 PM
Carbon disulfide	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Methylene chloride	0.81	5.0	J	µg/L	1	5/19/03 12:09:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
2-Butanone	ND	10		µg/L	1	5/19/03 12:09:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Chloroform	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Tetrahydrofuran	ND	10		µg/L	1	5/19/03 12:09:00 PM
Bromochloromethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Benzene	2.0	1.0		µg/L	1	5/19/03 12:09:00 PM
Trichloroethene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Dibromomethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/03 12:09:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/03 12:09:00 PM
Toluene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/03 12:09:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
2-Hexanone	ND	10		µg/L	1	5/19/03 12:09:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *22-May-03*

CLIENT: EA Engineering, Science and Technology
Client Sample ID: BN-9-22-QS11
Lab Order: 0305081
Project: 29600.47 NASB-Site 9
Collection Date: 5/8/03
Lab ID: 0305081-15A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Chlorobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Ethylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
m,p-Xylene	0.74	2.0	J	µg/L	1	5/19/03 12:09:00 PM
o-Xylene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Styrene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Bromoform	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Bromobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	5/19/03 12:09:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Naphthalene	ND	5.0		µg/L	1	5/19/03 12:09:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	5/19/03 12:09:00 PM
Surr: Dibromofluoromethane	100	85-120		%REC	1	5/19/03 12:09:00 PM
Surr: 1,2-Dichloroethane-d4	94.5	80-124		%REC	1	5/19/03 12:09:00 PM
Surr: Toluene-d8	91.1	88-109		%REC	1	5/19/03 12:09:00 PM
Surr: 4-Bromofluorobenzene	92.2	77-117		%REC	1	5/19/03 12:09:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
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RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-QD2
Lab Order:	0304173		
Project:	2960047 LTMP NASB	**Collection Date:**	4/22/03
Lab ID:	0304173-01A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **KT**
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Chloromethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chloroethane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Bromomethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Diethyl ether	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Acetone	ND	10		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Carbon disulfide	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Methylene chloride	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Butanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chloroform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Tetrahydrofuran	ND	10		µg/L	1	4/25/03 4:19:00 PM
Bromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Benzene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Trichloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Dibromomethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
Toluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Hexanone	ND	10		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Apr-03*

CLIENT:	EA Engineering, Science and Technology	**Client Sample ID:**	BN-9-QD2
Lab Order:	0304173		
Project:	2960047 LTMP NASB	**Collection Date:**	4/22/03
Lab ID:	0304173-01A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Chlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Ethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
m,p-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
o-Xylene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Styrene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromoform	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Bromobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Naphthalene	ND	5.0		µg/L	1	4/25/03 4:19:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/25/03 4:19:00 PM
Surr: Dibromofluoromethane	97.5	85-120		%REC	1	4/25/03 4:19:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	80-124		%REC	1	4/25/03 4:19:00 PM
Surr: Toluene-d8	98.1	88-109		%REC	1	4/25/03 4:19:00 PM
Surr: 4-Bromofluorobenzene	105	77-117		%REC	1	4/25/03 4:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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H - Method prescribed holding time exceeded
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