Annual Monitoring Report
Calendar Year 2010
Grenada Manufacturing, LLC
Grenada, Mississippi

Prepared for

Meritor

(f.k.a. ArvinMeritor)

Troy, Michigan

November 2011

Brown AND Caldwell

4700 Lakehurst Court

Dublin, Ohio 43016

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List of Abbreviations

AOC	area of concern
bgs	below ground surface
BRA	Baseline Risk Assessment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CMS	Corrective Measures Study
COC	contaminant of concern
CS	confirmatory sampling
CY 2010	Calendar Year 2010
DNAPL	dense non-aqueous -phase liquid
DOT	Department of Transportation
Empirical	Empirical Laboratories, LLC
EPA	Environmental Protection Agency
GCL	geocomposite clay liner
ICE	ICE industries, Inc.
ICU	intermediate confining unit
IDW	investigation-derived waste
LNAPL	Light non-aqueous-phase liquid
MCL	Maximum Contaminant Level
MDEQ	Mississippi Department of Environmental Quality
Meritor	Meritor, Inc.
MS/MSD	matrix spike/matrix spike duplicates
NAPL	non-aqueous -phase liquid
NFA	no further action
OSHA	Occupational Safety and Health Administration
PCE	tetrachloroethene
PMP	Performance Monitoring Plan
PR	preliminary review
PRB	permeable reactive barrier
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
Rockwell	Rockwell International, Inc.
SOIW	Summary of Investigative Work
SVOC	semi-volatile organic compound
SWMU	solid waste management unit
TCE	trichloroethene
UST	underground storage tank
VOC	volatile organic compound
VSI	visual site inspection

Section 1

Introduction

This report provides a summary of the results for the monitoring events conducted in Calendar Year 2010 (CY2010) at the ICE Industries, Inc. (ICE) facility (the "Site") in Grenada, Mississippi (Figure 1-1). The monitoring events were conducted by Meritor, Inc. (Meritor) in accordance with protocol defined in the following documents:

- Performance Monitoring Plan (PMP), Appendix E of the Design Basis Report for the Groundwater Interim Measure, prepared by Brown and Caldwell in April 2003 and revised in September 2004.
- Quality Assurance Project Plan (QAPP) prepared by Brown and Caldwell in November 2000 and revised in June 2006.
- Groundwater Monitoring Program Optimization at the Grenada Manufacturing Facility Site (Optimization Report), prepared by Brown and Caldwell in February 2008.

The monitoring program based on the above documents provides a means to evaluate the current groundwater conditions and the effectiveness of various corrective measures that have been implemented at the Site.

A baseline sampling event for the current monitoring program was conducted in November 2003 and the data from this sampling event are presented in the Baseline Groundwater, Surface Water, and Sediment Sampling Report (Brown and Caldwell, 2004a). That report also summarizes information about the geology and hydrogeology of the Site, which is not repeated herein. The specific objective of the CY2010 monitoring was to continue the evaluation of the corrective measures implemented at the Site to date. Included within the corrective measures monitoring is the PRB, which was completed in March 2005.

In addition to the monitoring program described above, Meritor assumed responsibility for the post-closure monitoring of the Equalization Lagoon in 2006, which is part of the CY2010 monitoring events and are summarized herein. Historical analytical data collected from background well MW-23 were statistically compared to the compliance wells (MW/RT-2, MW/RT-4, and MW/RT-5) in accordance with Conditions IV.L of the Grenada facility permit for the Equalization Lagoon post-closure monitoring. That statistical comparison is presented in Section 3.2 of this report. The revised June 2006 QAPP includes those activities that have become ArvinMeritor's responsibility that were not included in the PMP.

CY2010 monitoring events included the following:

- Semi-annual groundwater monitoring around the permeable reactive barrier (PRB);
- Semi-annual monitoring of surface water;
- Annual post-closure groundwater monitoring around the Equalization Lagoon;
- Bi-annual groundwater monitoring of additional site-wide monitoring wells in accordance with the corrective measures monitoring program; and
- Light non-aqueous phase liquid (LNAPL) monitoring and recovery in existing LNAPL recovery (RC) wells on the east side of the Grenada Stamping main plant.

The spring and fall monitoring events for CY2010 occurred in May and October. Due to field blank contamination encountered during the spring monitoring event, the surface water locations were resampled in July 2010. The results of these collective efforts are summarized in this report.

Seven wells within the interior of the groundwater plume are sampled once every four years. This quadrennial event is scheduled to next occur in the spring of 2012. Sediment in Riverdale Creek is sampled bi-annually, and is scheduled to next occur in the spring of 2011. Table 1-1 provides a complete monitoring schedule for the Site.

1.1 Facility History

The manufacturing facility was constructed by Lyon in 1961 and sold to Rockwell International, Inc. (Rockwell) in 1966. The Automotive Division of Rockwell operated a wheel cover manufacturing facility at the Site from 1966 to 1985 when the plant and property were sold to Textron Automotive Company (Textron), formerly Randall Textron. Meritor was spun off from Rockwell in 1997 and Meritor retained environmental liability for the Site associated with previous operations. In 1999, Textron sold the operations and property to Grenada Manufacturing, LLC (Grenada Manufacturing), who continued to operate the wheel cover plant until 2008 when the plant and property were sold to ICE.

Throughout most of the Site history the facility was used to manufacture automobile wheel covers. Following the acquisition of the Site by ICE (the current "Permittee"), the facility was converted to a stamping plant, providing stamp-formed parts for various industries.

1.2 Environmental History

On January 20, 1989 the United States Environmental Protection Agency, Region IV (EPA) advised Textron "that there may be a release or threat of a release of hazardous substances from the site into the surrounding environment" and that EPA would be inspecting the facility pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In addition, by letter dated February 16, 1989, the Mississippi Department of Natural Resources, now known as the Mississippi Department of Environmental Quality (MDEQ), advised Textron that the Grenada facility had been included on EPA's Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list of potential hazardous waste sites.

On August 22, 1990, MDEQ issued an administrative order to Textron and Rockwell requiring the companies to "develop and execute a work plan to delineate and characterize the extent of any contaminant releases or potential releases" from an on-site landfill. The On-Site Landfill was located west of the wastewater treatment plant, between the treatment plant and Riverdale Creek (Figures 1-2 and 1-3). On March 19, 1991, Textron and the MDEQ entered into an "Agreed Order" (Order Number 1859-90) pursuant to which Textron consented to undertake the measures necessary to bring a wastewater impoundment containing regulated hazardous wastes (the Equalization Pond) into compliance with the applicable RCRA regulations. In 1990 wastes within the former On-Site Landfill area were excavated and disposed of in an off-site facility, and a fence was constructed around the former On-Site Landfill area to restrict access.

The Site remedial investigation (RI) began in 1991 and continued through 1993. In August 1993, the State of Mississippi shifted authority for project oversight from the Uncontrolled Sites Branch to the Hazardous Waste branch. A Baseline Risk Assessment (BRA) was conducted for soil and shallow groundwater as part of the Supplemental RI Report prepared by Eckenfelder in March 1994. On January 27, 1994, Rockwell submitted to MDEQ a Draft Remedial Investigation Report, Randall Textron Plant Site, Grenada, Mississippi (Brown and Caldwell, 2004c) reflecting the results of a comprehensive Site investigation and BRA. The remedial investigation identified several source areas for contaminants of concern (COCs) in addition to the former On-Site Landfill area. The following areas of concern were identified in the RI: former On-site Landfill, Equalization Lagoon, former Sludge Lagoon, Chromium Reduction Unit, Raw Waste Station/Wet Well, Process Sewers, Outfall Ditch, former Toluene Storage Area, former trichloroethene (TCE) Storage Area, and former Burn Area.

The RI identified the presence of trichloroethylene (TCE) and its degradation products, as well as toluene and chromium, in the soil and groundwater at the Site. The primary concern with respect to impacted groundwater, determined by the BRA, was the migration of chlorinated volatile organic compounds (VOCs) to Riverdale Creek on the western side of the Site. The Baseline Risk Assessment identified eight VOCs (1,2-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethene [total], tetrachloroethene [PCE], toluene, 1,1,2-trichloroethane, trichloroethylene, and vinyl chloride), one semi-volatile organic compound [bis(2-ethylhexyl) phthalate], and two metals (chromium VI and arsenic) as COCs.

In 1995 EPA assumed authority for the project oversight, and determined that the investigation and cleanup of the Site needed to proceed as a Resource Conservation and Recovery Act (RCRA) corrective action under the terms of the RCRA permit issued to the facility. A RCRA Facility Assessment (RFA) was performed by the USEPA and its contractor (A.T. Kearney, Inc.) as part of the HSWA permit process for the facility in 1996 and 1997. The RFA report was sent to the facility in November 1997.

As a result of the Preliminary Review (PR) and Visual Site Inspection (VSI), 26 solid waste management units (SWMUs) and 3 areas of concern (AOCs) were identified. Of the 26 SWMUs identified, 18 SWMUs (1, 5, 6, 8, 9, 10, 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, and 26) were investigated and determined to have no evidence of a release and to require no further action. Prior to the date that the facility became regulated under RCRA, remedial actions had been completed at SWMU 2 (Former Equalization Lagoon) and SWMU 3 (Former On-Site Landfill). A RCRA Facility Investigation (RFI) was required for the remaining SWMUs (2, 3, 4, 7, 12, 13, 14, 15 and 27) and for AOCs A, B, And C. Figure 1-3 indicates the locations of the SWMUs, AOCs and other areas addressed in the RFI.

EPA required (as a condition of the facility's HSWA Permit) that an Interim Measures Work Plan (IM Work Plan) be created to addresses the Chromium Destruct Pit (SWMU 14), the former TCE Storage Area (AOC A), the former Toluene Storage Area (AOC B), the Wet Well (SWMU 12), plant process sewers (SWMU 15), and site-wide groundwater. In July 1998, EPA issued a Hazardous and Solid Waste Amendments (HSWA) permit to the facility.

In March 1999, EPA issued a combined RFI/Confirmatory Sampling (CS) Work Plan call letter. EPA requested that summaries of data obtained subsequent to issuance of the RI Report be prepared and that the available data be organized by SWMU or AOC. A Summary of Investigative Work (SOIW) document was prepared by Brown and Caldwell and transmitted to EPA and MDEQ in July 1999. Comments on the SOIW were received from the EPA, and Meritor was required to respond to EPA comments on the SOIW and to revise and resubmit the SOIW as the RFI Report. Additional groundwater sampling was performed to update the groundwater database and to incorporate the updated information in the RFI Report (revised SOIW).

An Interim Measures Work Plan was submitted in June 2000 and approved in July 2000 by the EPA. The Interim Measures Work Plan addressed additional data collection and the evaluation of interim measures for both source control and Site-wide groundwater. The additional data collected was reported in the RFI Report and used in the evaluation of interim measures. The RFI Report (Brown and Caldwell, 2001), including responses to EPA comments on the Draft SOIW and the results of the additional sampling, was issued in final form in October 2001.

The report, "Corrective Measure Study, Grenada Manufacturing, LLC" (CMS, Brown and Caldwell, 2004) included the following eight Site-specific components were selected as the final recommended corrective measures for the Site (in addition to measures that had already been undertaken):

- Additional dense non-aqueous-phase liquid (DNAPL) recovery at AOC A;
- Additional LNAPL recovery at AOC B;
- Additional non-aqueous-phase liquid (NAPL) recovery at the former Sludge Lagoon;
- Construction of a high vacuum multi-phase extraction system at AOC B;

- Installation of a sheet pile barrier upgradient of AOC A for groundwater migration control;
- Closure of the former Sludge Lagoon (SWMU 4);
- Installation of a PRB for Site-wide groundwater migration control; and
- Implementation of select institutional controls for the Site.

The CMS was approved by EPA in September 2003. In December 2005, the plant's HSWA permit was modified to require implementation of the corrective measures.

On July 18, 2006, Meritor submitted a Corrective Measures Pre-Design Activities Work Plan (Work Plan) for work to be completed prior to implementing the corrective measures selected in the CMS. The Work Plan was approved by EPA and the activities outlined in the Work Plan were completed. The work completed was used to provide information for design of the remaining CMS remedial measures and/or to evaluate the effectiveness of some activities proposed in the CMS. The Corrective Measures Pre-Design Investigation Results for the Grenada Manufacturing Facility Site ("Pre-Design Investigation Report", Brown and Caldwell, 2008a) was revised and submitted on July 18, 2008. This report included design information related to the former Sludge Lagoon Closure as well as information related to the implementation of other Site corrective measures.

1.3 Summary of Site Remedial Actions

Remedial activities at the Site began in 1990 when waste from the former On-Site Landfill (SWMU 3) was excavated for off-site disposal, and remediation has continued through 2010 with closure of the former Sludge Lagoon Closure (SWMU 4). Figure 1-4 provides the locations of each of the areas where remedial measures have been completed on Site to remove or control source areas. The remedial measures have either occurred as interim measures or within the framework of the RFI and CMS for the Site. Figure 1-4 also indicates the year in which remedial measures were implemented at each location. Descriptions of the remedial measures performed for each location are provided in the following subsections. The information provided also specifies additional documents that can be referenced to obtain detailed information regarding each remedial action taken at the Site.

1.3.1 Former On-Site Landfill (SWMU 3)

The Former On-Site Landfill managed Site waste including buffing compounds, still-bottoms and paint sludges. Remedial activities were initiated at the Grenada Site in 1990 with the removal and off-site disposal of waste material from the former On-Site Landfill. In addition to this initial removal action, an interim measure was implemented at the former On-Site Landfill in 1994 to address residual impact in the soil that had formerly been in contact with the waste material present in the landfill (SWMU 3, Figure 1-4). An interim remedial action was performed on the soils in accordance with the Agreed Order between the MDEQ and Rockwell International Corporation and Randall Textron Incorporated. The purpose of the interim remedial action was to remove constituent mass of TCE in order to reduce potential direct-contact risk and reduce the source impact of the on-site landfill to groundwater. The interim measure used ex-situ soil vapor extraction to treat approximately 9,000 cubic yards of soil. TCE-impacted soil was excavated and mixed with aggregate and lime using a road stabilizer fitted with an off-gas treatment system. Treated soil was stockpiled and, when verified to be below cleanup goals for TCE, the remediated soil was returned to the excavation area.

1.3.2 Equalization Lagoon (SWMU 2)

The former Equalization Lagoon (SWMU 2, Figure 1-4), located northeast of the main building, was closed under MDEQ jurisdiction as a regulated unit. The former Equalization Lagoon received process wastewater flows from the roll forming department, boiler blowdown, boil-off, butler wash, buff wash, alkaline rinse water, and cooling waters until July 1991. Wastewater was subsequently routed directly to

the wastewater treatment plant. The closure activities completed in 1994 consisted of draining the lagoon and removal and temporary consolidation of sludge and underlying soil within the eastern portion of the drained lagoon. An engineered liner was then constructed within the western portion of the lagoon and the sludge and underlying soil were placed within the lined area. An engineered landfill cover system was then constructed over the area. Lastly, the eastern portion of the former Lagoon was allowed to refill with surface water runoff. Meritor is currently analyzing groundwater compliance monitoring wells surrounding the former Equalization Lagoon as a part of the Equalization Lagoon Closure Plan. The Equalization Lagoon closure is described in detail in the final RFI Report (Brown and Caldwell, 2000).

1.3.3 Chrome Destruct Pit (SWMU 14)

Active chrome plating operations at the plant were discontinued on January 18, 2001. Use of the Chrome Destruct Pit (SWMU 14) for treating chromium-laden wastewater was discontinued by March 9, 2001. Grenada Manufacturing submitted a Closure Plan for the associated sumps, pits, and the Chrome Destruct Pit, which was subsequently approved by EPA in October 2001. That Closure Plan identified and discussed further closure steps. Closure activities were completed according to the Closure Plan and "No Further Action" is noted in EPA's letter to Grenada Manufacturing dated April 4, 2002. Clean closure included filling the pit with clean backfill and covering the area with six-inches of concrete.

1.3.4 Chrome Plating Line (SMWU 27)

During the closure activities for the Chrome Destruct Pit, Grenada Manufacturing identified another SWMU and the USEPA subsequently designated it as the Chrome Plating Area, SWMU 27. The chrome plating department was composed of three chrome-plating lines with 11 tanks in each line. The lines were each in a recessed area, four feet below the plant floor. The recessed in-ground plating lines were sloped to the Process Sewers (SWMU 15) so that the overflow from the tanks in the northern half of each chrome line (tanks 1 through 6) drained to the Wet Well (SWMU 12). These tanks did not contain any chromium. The tanks in the southern half (tanks 7 through 11) of each line contained chromium, and the overflow from these tanks drained to the Chrome Destruct Pit (SWMU 14).

At the request of the USEPA, Grenada Manufacturing prepared an Assessment Report and Closure Plan for the Chrome Plating Line Area (Brown and Caldwell, 2003a), which was approved in a letter from the EPA dated January 30, 2003. Grenada Manufacturing completed the actions identified in the Closure Plan. Additional source removal activities, if required, will be completed at the time that the manufacturing facility is closed and demolished. No further actions can be completed while the facility remains active. There is no evidence of chromium waste moving from under the plant building. If the waste were to move it would be in groundwater in the form of hexavalent chromium and would be detected by the monitoring program and treated by the PRB (if it were capable of traveling this far in the aquifer before being reduced to a non-soluble form of chromium [trivalent chromium]).

1.3.5 Former Above-Ground TCE Storage Tank (AOC A)

DNAPL was identified in a monitoring well near the former TCE Above-Ground Storage Tank within AOC A (Figure 1-4). The tank had been placed in service in 1973 and was removed from service in 1980 following a reported release from underground piping associated with the tank. A new above-ground tank was installed at that time, placed within a containment berm with above-ground piping. TCE use at the Site was discontinued in 1992.

An automated DNAPL recovery system was installed in October 1993 within AOC A. The DNAPL recovery well is located between the plant building and the plant warehouse to the east in the vicinity of the Former TCE Storage Tank. The automated DNAPL recovery system was operated for a period of approx-

imately three years to recover free-phase TCE. As a result of the Interim Actions performed by the automated recovery system in AOC A, over 200 gallons of TCE were removed before product thickness decreased to the point that additional recovery using the automated system was no longer beneficial. Automated recovery ceased in 1996, but recovery of DNAPL continued through periodic manual bailing from 1996 through 2003, when it was determined that no additional free-phase TCE could be removed. Approximately 39 additional gallons of DNAPL was recovered through manual bailing, bringing the total documented DNAPL recovery to at least 239 gallons. Additional monitoring has indicated that DNAPL no longer accumulates in the recovery well.

The CMS called for additional DNAPL recovery in AOC A. In preparation for installing additional DNAPL recovery wells in this area, the Corrective Measures Pre-Design Investigation Work Plan (Pre-Design Work Plan, Brown and Caldwell, 2006) was prepared that included an evaluation of the potential for additional DNAPL recovery in AOC A. This work plan was approved by EPA on April 8, 2007. The Work Plan called for installing a grid of temporary wells in the vicinity of the former DNAPL recovery well to determine if additional recoverable zones of DNAPL were present in AOC A. The wells were screened at the interface of the aquifer with the underlying aquitard (the marl clay) and were equipped with a sump that extended into the marl to allow accumulation of DNAPL if recoverable quantities were present. A total of 31 temporary wells were installed and measurements were obtained from the wells for a period of four months following installation. DNAPL was not detected in any of the temporary wells. The methods and results of this investigation are described in detail in the Pre-Design Investigation Report. Based on the results of this investigation, the pre-design report recommended no further action be taken for DNAPL removal in AOC A.

The CMS also recommended the evaluation of a sheet pile barrier to be placed upgradient of the DNAPL source area as a means of source area control. Due to the location of the DNAPL source area and surrounding buildings and utilities, a full barrier around the source area would not be practical, so a partial barrier upgradient of the source area was envisioned. The Pre-Design Work Plan described groundwater fate and transport modeling that would be completed to evaluate the effects of this type of partial barrier on source area control for AOC A.

Groundwater fate and transport modeling was completed as a pre-design study for the sheet pile barrier concept. A regional MODFLOW/MT3D model was used to complete this analysis, and the methods and results of the evaluation were included in the Corrective Measures Pre-Design Report. The fate and transport modeling results indicated that the barrier would result in a minor reduction in the total flux of TCE to the PRB, but the reduction was small enough to be within the margin of error for the modeling effort. In addition, the model predicted that the TCE flux to the PRB would continue for a longer period of time with the barrier in place, negating any potential benefit of a reduced total quantity of TCE reaching the PRB. Based on these results, the recommendation from the report was to eliminate the sheet pile barrier as a viable source area control measure for AOC A (and AOC B).

1.3.6 Former Underground Toluene Storage Tank (AOC B)

A 2,000 gallon steel underground storage tank used to store toluene was once located outside of the southeast wall of the manufacturing facility. The tank was taken out of service in 1988 and was removed (with some surrounding soil) in March of 1988. LNAPL was observed in the tank cavity upon removal of the tank and surrounding soils. Underground piping associated with the tank was the suspected source of the release.

An automated LNAPL recovery system was installed in October of 1993 to recover free phase toluene in the Former Toluene Underground Storage Tank (UST) Area (AOC B, Figure 1-4). The automated LNAPL recovery system operated for a period of about two years and consisted of four wells located immediately behind (southeast of) the main plant building in the former area of the Toluene Underground Storage Tank. As a result of the automated recovery system interim action, over 2,000 gallons of toluene were

removed before product thickness decreased to the point where additional recovery using the automated system was no longer beneficial. Operation of the automated system ceased in 1995. Periodic manual bailing of LNAPL accumulating in the recovery wells has continued from 1995 to the present. Typically, only small volumes of LNAPL are recovered (approximately two to five gallons per recovery event). The quantity of LNAPL recovered was not recorded for the period between 1995 and 2000, although monthly bailing was practiced during this period. Recording resumed in 2000 and approximately 200 gallons of LNAPL have been recovered between 2000 and the present, for a total of at least 2,200 gallons of toluene LNAPL recovered from AOC B.

The CMS proposed the implementation of a high vacuum dual-phase recovery system if pilot testing indicated that the system could effectively aid the recovery of LNAPL in AOC B. The geology and hydrogeology of the AOC B area is not well suited to this type of recovery system due to the presence of a low permeability layer at or just above the water table. Additional pre-design work was proposed to determine if such a system would be feasible and/or if other methods for increasing the rate of LNAPL recovery could be developed. The proposed pre-design testing was outlined in the Pre-Design Work Plan. Pilot testing was completed at the Site in October 2007. Tests were performed on recovery wells RC-2 and RC-4, the only wells with LNAPL present at the time of the testing. The testing demonstrated that removal methods that provide vacuum to the well will not be effective for increasing the recovery rate of LNAPL, due to the corresponding rise in the water table and sealing of the zone that contains the LNAPL. The Pre-Design Investigation Report recommended that passive methods, such as continued bailing of LNAPL from the wells be continued, due to the likelihood that more aggressive methods would not increase the LNAPL recovery rate. Details regarding the methods and results of the testing are provided in the report.

1.3.7 Former Sludge Lagoon (SWMU 4)

The former Sludge Lagoon (SWMU 4, Figure 1-4) was previously used as a retention basin for solids and chemical precipitation from the wastewater treatment plant. In 1982, Rockwell International submitted a petition to the USEPA and MDEQ to delist this wastewater treatment sludge accumulated in the lagoon. In a letter dated December 22, 1982, MDEQ granted the delisting and, therefore, the sludge is not a hazardous waste. The Sludge Lagoon has not been active since the delisting of the waste sludge in 1982.

Based on groundwater monitoring results and field observations, monitoring well MW-2 (located near the former Sludge Lagoon) was added to the NAPL recovery program in June 2001. Although a small layer of LNAPL was detected in MW-2, multiple efforts to recover NAPL from this well were unsuccessful and NAPL recovery was abandoned for this well. However, it was considered possible that LNAPL and/or DNAPL might be present in the vicinity of the former Sludge Lagoon, based on the presence of the thin free-phase layer in MW-2.

The Pre-Design Work Plan provided proposed methods for installing wells screened to intercept an LNAPL layer (if present) and additional wells screened to detect a DNAPL layer (if present). A total of 18 wells (nine to identify potential LNAPL and nine to identify potential DNAPL) were installed according to the approved work plan in July of 2007. Water level measurements were obtained from all the wells using an interface probe (for identification of a NAPL layer) on three occasions over a four-month period. No LNAPL or DNAPL was identified in any of the wells at the former Sludge Lagoon. Based on this finding, it was concluded that recoverable NAPL was not present at the former Sludge Lagoon and that no further action was recommended for NAPL recovery at this location. The methods and conclusions of this study are provided in the Pre-Design Investigation Report.

Investigation of the vadose-zone soils in the vicinity of the former Sludge Lagoon was also completed as a pre-design study to determine an appropriate distance to extend the cap system for the former Sludge Lagoon closure. The intent of this work was to allow the cap to be designed to cover impacted vadose

zone soils potentially present adjacent to the former Sludge Lagoon. A total of 12 soil borings were completed in the area adjacent to the former Sludge Lagoon. A small area of impacted soil was identified in one boring and a step out boring was used to define the extents of the impacted soil. The methods and results of the investigation were provided in the Pre-Design Report, and the former Sludge Lagoon cap system was designed to extend beyond the clean boundaries identified in the investigation.

Methods for stabilizing the sludge in place to allow an impermeable cap to be placed over the lagoon were evaluated as a pre-design study and the results were provided in the Pre-Design Investigation Report. A Sludge Lagoon Closure and Post Closure Monitoring Plan (Brown and Caldwell, 2008c) was approved by EPA in a letter dated January 29, 2009. Closure construction activities for the former Sludge Lagoon began on April 19, 2010 and the final seeding of the cap system was completed on October 15, 2010. A construction certification report, Solid Waste Management Unit 4 – Sludge Lagoon Closure Construction Certification Report (Brown and Caldwell, 2011), was submitted on March 3, 2011. The report is not yet approved by the EPA.

1.3.8 Outfall Ditch (SWMU 7)

Both sediments and surface water were sampled at several locations along the Outfall Ditch (SWMU 7, Figure 1-4). Additionally, groundwater and wastewater effluent, two sources to the Outfall Ditch, were monitored, as well as Riverdale Creek to which the Outfall Ditch discharges. Sufficient information was obtained prior to completion of the CMS to delineate this SWMU, and was appropriately listed as requiring "No Further Action (NFA)" in EPA's letter to Mr. Lloyd Taylor at Textron Automotive Company, dated May 21, 1999. Therefore, SWMU 7 did not undergo further evaluation or corrective action as part of the CMS.

The Outfall Ditch was improved prior to the installation of the PRB. Improvements included the removal of sediment and vegetation from the ditch, the placement and compaction of a soil liner within the ditch to raise the base elevation (to be higher than the PRB where it crossed) and to isolate the ditch from the groundwater system. At the location of the PRB, a geocomposite clay liner (GCL) was added along with the compacted soil liner to ensure isolation from the PRB and ensure that groundwater cannot pass over the PRB through the Outfall Ditch. A geotextile fabric was placed on the compacted soil liner for the ditch followed by rip-rap to protect the liner from erosion. Details regarding the improvements made to the Outfall Ditch are provided in the Construction Report for the Permeable Reactive Barrier Groundwater Interim Measure (PRB Construction Completion Report, Brown and Caldwell, 2006).

1.3.9 Site-Wide Groundwater Migration Control

While the source control interim measures have provided obvious benefit to the Site, groundwater monitoring indicated that additional measures were needed to prevent the flux of impacted groundwater to Riverdale Creek. A PRB using zero valence iron filings was selected as the most appropriate option for use at this Site to treat groundwater in-situ upgradient of where it flows to Riverdale Creek. The PRB location, length, and thickness were determined during the interim measure design phase and were outlined in the Design Basis Report submitted to EPA on September 17, 2004 (Brown and Caldwell, 2004b). The primary COCs that the PRB was designed to treat were TCE and its daughter products. However, the PRB is also capable of reducing hexavalent chromium to trivalent chromium, which precipitates within the aquifer or the PRB. At this Site, hexavalent chromium appears to be reduced within the aquifer (relatively close to source areas) and does not form extensive plumes. Regardless, the PRB adds an additional level of protection to ensure that hexavalent chromium does not migrate to Riverdale Creek.

The zero valent iron PRB was constructed during the period between August 31, 2004 and March 29, 2005. The PRB Construction Completion Report provides details regarding the installation of the PRB. The location of the PRB is depicted on Figure 1-4. The PRB extends in depth from approximately five

feet above the water table to the depth of a clay confining layer that is present at 50 to 60 feet below ground surface that the PRB keys into. The PRB consists of upper and lower panels of approximately equivalent depth. The dual panels were constructed to allow the PRB thickness to be designed to more accurately match the groundwater impact present in the upper and lower zones of the aquifer. The PRB is approximately 1,200 feet long as shown on Figure 1-4. Details regarding the installation of the PRB are provided in the PRB Construction Completion Report.

1.3.10 Indoor Air

A VOC plume originating in AOCs A and B (upgradient of the manufacturing facility) travels with groundwater beneath the facility on route to the primary Site groundwater treatment system (the PRB installed near Riverdale Creek). Given that impacted groundwater travels under the building, indoor air sampling has been completed to verify that VOCs from groundwater are not impacting indoor air quality at the manufacturing facility.

Meritor conducted an assessment of the potential for vapors from chemicals in the groundwater to be present in indoor air at the facility. The results of the vapor-intrusion assessment were presented in a letter to EPA dated February 26, 2002. The assessment identified ten VOCs that had potential to exceed the target concentrations in at least one location for the groundwater monitoring wells that were identified as being near the main plant building. The assessment concluded that there were insufficient data at that time to determine whether the vapor to indoor air pathway was complete and if indoor air quality had been impacted. In a letter dated June 14, 2002, EPA requested that an Indoor Air Monitoring Work Plan be prepared for collecting data to further assess the vapor to indoor air pathway, and also asked that another VOC, toluene, be added to the analyte list, making a total of 11 VOCs on the analyte list.

An Indoor Air Monitoring Report, Grenada Manufacturing Site, Grenada, Mississippi (Indoor Air Monitoring Report, Brown and Caldwell, 2004c) was submitted to EPA in December 2004. This report summarized the air monitoring activities and results for air monitoring that occurred on February 17, 2003. In a letter dated May 17, 2004, EPA indicated that additional indoor air sampling would be required at the Grenada Manufacturing facility to supplement the data from the February 17, 2003 sampling event. Meritor proceeded with additional indoor air sampling on August 18, 2004, which was documented in the Indoor Air Monitoring Report.

EPA requested that an additional winter and summer sampling event be completed five years after the initial events of 2003 and 2004. If the results of the indoor air sampling completed in 2009 did not indicate vapor intrusion to the facility, EPA indicated that the sampling events completed in 2009 would not need to be repeated again. The results of the 2009 indoor air monitoring events were provided in the 2009 Indoor Air Monitoring Report, ICE Industries (Brown and Caldwell, 2010). Given that that indoor air concerns stemmed from the presence of impacted groundwater beneath the facility, that indoor air samples from 2003, 2004, and 2009 did not identify indoor air concerns relating to the COCs present in ground, and that the groundwater concentration of COCs has generally declined over the period of indoor air sampling (and is expected to decline into the future), sufficient indoor air sampling has occurred to confirm that this potential exposure pathway is incomplete.

1.3.11 Institutional Controls

Existing institutional controls in place at the Site include signage on fencing around the Main Plant buildings and the wastewater treatment plant/Sludge Lagoon Areas indicating limited access and/or the presence of conditions that warrant caution, and the aforementioned deed restrictions. These institutional controls are recorded with the Chancery Clerk's Office of Grenada County in the State of Mississippi in Book 331 on pages 102 through 107 and Book 332 on pages 165 through 169 and can be found in Appendix E of this report. In summary, the controls specify that:

1. No persons shall install any groundwater wells or extract the groundwater in the uppermost aquifer located at or underlying the Property for any purpose, potable or non-potable, except for groundwater sampling, groundwater investigation, or remedial activities, as warranted and approved by the U.S. EPA and/or MDEQ.
2. The Property is restricted to non-residential use only, and shall not be used as a hospital, school, day care facility, or other child-occupied facility, as those terms may be currently defined, or defined in the future, by zoning ordinance(s) of the City o f Grenada or any other local governmental entity with jurisdiction and authority to regulate the land use at the Property.
3. There shall be no surface or subsurface demolition, excavation, drilling or other similar activities in the former chrome plating line area of the Property identified on Exhibit B without the prior written approval of the U.S. EPA and MDEQ.
4. Owner grants access to the Property at all reasonable times to the U.S. EPA, the MDEQ, and any private persons (including their contractors, subcontractors and agents) who have not otherwise been granted access to the Property and who are authorized by the U.S. EPA and/or the MDEQ to undertake environmental activities on the Property relating in any way to the State of Mississippi Hazardous Waste Management Permit No. HW-007-037-278 or U.S. EPA RCRA Permit No. MSD 007 037 278. All parties obtaining or granted access to the Property under this provision shall conduct their activities on the Property in a manner which minimizes to the fullest extent possible any disruptions to the use and enjoyment of the Property by Owner, its successors or assigns, and/or any other persons having an ownership or property interest in the Property.

1.4 Site Conceptual Model

Figure 1-5 shows the location of a cross-section along the length of the Site parallel to the general direction of groundwater flow, and Figure 1-6 provides a generalized cross-section along this path. The stratigraphy at the Site is comprised of approximately 8 to 15 feet of clayey silt or silty clay overlying approximately 30 to 50 feet of saturated, fine- to medium-grained sands that contain varying amounts of silt. Combined, these soils are referred to as the “Upper Aquifer”. Within the vicinity of the Main Plant, the sand unit is bisected by a discontinuous clay unit at a depth between 20 and 30 feet below ground surface (bgs). This clay unit was not observed in the western portion of the Site or in the vicinity of the PRB. At the base of the sand unit is a thinly-bedded, slightly-sandy, clayey silt, which is encountered at depths ranging from 47 to 60 feet bgs and serves as an intermediate confining unit (ICU) that acts as an aquitard and separates the upper and lower aquifers. This layer is approximately 16 feet thick and has been identified as marl exhibiting much higher blow counts than the overlying soils. Below this unit is another sand layer that comprises the “Lower Aquifer”.

The Upper Aquifer is the primary horizontal transport pathway for the Site. Groundwater in this aquifer is generally under semi-confined conditions, flows to the northwest, and discharges into Riverdale Creek. It is believed that Riverdale Creek is in direct communication with the Upper Aquifer. The Upper Aquifer is semi-confined above by the surficial confining unit and below by the lower clay unit. A significant upward gradient exists between the Upper and Lower Aquifers, thereby precluding the transport of constituents of concern to the Lower Aquifer from the Site. No impact has been identified in the Lower Aquifer.

1.5 Report Organization

The remainder of this report provides the methods, results and conclusions of the CY2010 groundwater and surface water sampling events completed at the Site. Section 2 provides the monitoring strategy and methods of the sampling program(s). Section 3 provides the results of the monitoring events completed in CY2010. Section 4 is a summary of the sampling results for CY2010, and Section 5 lists the references cited in various sections of this report.

Section 2

Monitoring Strategy and Methods

The groundwater and surface water monitoring methods used at the Site are described in this section. Groundwater and surface water were sampled to monitor the effectiveness of the various corrective measures implemented (i.e., the PRB and Equalization Lagoon closure) and to evaluate current Site conditions.

Monitoring wells across the Site were installed in either the upper portion or the lower portion of the surficial aquifer that underlies the Site. Each of the well locations surrounding the PRB contains a shallow- and deep-screened monitoring well so that the upper and lower portions of the surficial aquifer can be monitored separately using these well pairings. Monitoring wells located around the Equalization Lagoon were screened within the shallow aquifer. Groundwater monitoring and surface water sampling locations are shown on Figures 2-1 and 2-2, respectively. The groundwater and surface water monitoring points, along with the associated aquifer zone for corrective measures monitoring and post-closure monitoring, are listed in Table 1-1. The analytical parameters for each sample location are indicated in Table 1-1 and listed in Tables 2-1 and 2-2. The groundwater and surface water sampling methods and procedures are presented in the QAPP. These include field sampling procedures, laboratory analyses, sample chain-of-custody, quality assurance (QA)/quality control (QC), and personnel certification. Groundwater and surface water monitoring are discussed further in Sections 2.1 through 2.3.

2.1 Groundwater Sampling and Monitoring

Groundwater was collected from the monitoring wells listed in Table 1-1, as outlined in the PMP, the revised QAPP, and the Groundwater Monitoring Program Optimization Plan (Brown and Caldwell, 2008b). The groundwater samples were tested in the field for select parameters and analyzed by Empirical Laboratories, LLC (Empirical) in Nashville, Tennessee for the parameters listed in Tables 2-1 and 2-2. Field measurements and observations were recorded in field log books and summarized on Field Sample Data Forms (included in Appendix A). Field sampling was completed in accordance with EPA established protocols and those outlined in the QAPP. Site-wide monitoring well MW-20 could not be located during CY2010 and therefore was not sampled. This flush-mounted well is located on the gravel berm of a road and apparently had been covered during road grading activities.

Samples were appropriately preserved, placed on ice and stored at approximately 4 degrees Celsius (°C) immediately upon collection, and shipped to the laboratory in accordance with standard chain-of-custody procedures. Chain-of-custody records and laboratory analytical reports are included in Appendix B.

2.2 Summary of Statistical Analyses

In accordance with Condition IV.L of the Grenada facility permit, compliance data from wells RT-2, RT-4, and RT-5 were compared to the statistical prediction limits developed from background well MW-23 and consistent with the guidelines presented in “Statistical Analysis of Ground-water Monitoring Data at RCRA Facilities” Unified Guidance (USEPA, March 2009b).

The statistical tests used fall into two categories – parametric and non-parametric prediction limits. The selection of either parametric or non-parametric tests depends on the percentage of background samples below the detection limit and the distribution of the data. The primary distinction between the

parametric and non-parametric methods involves assumptions regarding the distribution of the data sets. Parametric methods assume that the data (or the transformed data) follow a normal distribution. Non-parametric methods make no distributional assumptions. In general, parametric methods are used in all cases where the distributional assumptions are met and where a sufficient percentage of data points are detected. If sample results were 100% detected, testing for normal distribution of the data was conducted using the Shapiro-Wilk Test of Normality (USEPA guidance, March 2009a). If less than 50% of the sample results were non-detect, an attempt was made to determine if the censored data followed a normal distribution using either Cohen's Method or Aitchison's Method for handling censored data. If more than 50% of the sample results were non-detect, then non-parametric prediction limits were used.

2.3 Surface Water Sampling

Groundwater in the uppermost aquifer at the Site flows to the west/northwest and discharges into Riverdale Creek. Surface water samples were collected at five sample locations (SW-9, SW-12, SW-17, SW-19, and SW-22), as indicated on Figure 2-2. These locations coincide with previous sampling locations so that the most recent data could be compared with historical data. Also, the sample designations match those assigned in previous investigations. These locations include one sample collected approximately 300 feet upstream of the Outfall Ditch on Riverdale Creek (SW-22), one at the confluence of the Outfall Ditch and Riverdale Creek (SW-12), one in Riverdale Creek parallel to the alignment of the PRB approximately 400 feet downstream of the Outfall Ditch (SW-19), and two further downstream samples beyond the southern extent of the PRB. The two samples downstream of the PRB consist of one sample approximately 2,000 feet downstream of the Outfall Ditch (SW-9) (roughly 400 feet downstream of the southern end of the PRB) and the second approximately 3,000 feet downstream of the Outfall Ditch near the Highway 51 Bridge (SW-17).

Surface water samples were collected near the east bank of Riverdale Creek at locations exhibiting the greatest degree of homogeneity. Surface water samples were collected in a downstream to upstream direction so that sediment was not mobilized that could potentially impact unsampled locations. At each of the sample locations, a water sample was collected that was representative of the entire depth at the sampling location. Sampling procedures outlined in the PMP were followed to provide representative samples of the water in Riverdale Creek. Water temperature, pH, and specific conductance were measured in the field using a portable meter and recorded in the sample data sheets. Meter probes were gently wiped with a paper towel and then rinsed with deionized water before and after each use. The pH and specific conductivity meters were calibrated before use. Sampling equipment was decontaminated before sampling in accordance with EPA established protocols and those outlined in the QAPP.

Field measurements and observations were recorded in the field log book and are summarized on the Field Sample Data Forms (Appendix A). Samples were appropriately preserved, placed on ice and stored at approximately 4°C immediately upon collection, and shipped to the laboratory in accordance with standard chain-of-custody procedures. Empirical Laboratory analyzed the surface water samples for VOCs and the inorganic parameters listed in Table 2-1. Chain-of-custody records and laboratory analytical reports are included in Appendix B.

2.4 Light Non-Aqueous Phase Liquid (LNAPL) Monitoring and Recovery

LNAPL has previously been recovered in an area located near the northeast corner of the main Grenada Stamping building. There are four LNAPL recovery wells (RC-1, RC-2, RC-3, and RC-4), and the LNAPL thickness in these wells has been monitored (as a part of the overall Site monitoring program) since 2004.

Collection of LNAPL from the RC wells has been performed using both bailers and peristaltic pumps with disposable tubing. The only wells that showed product thickness during CY2010 were RC-2 and RC-4.

The recovered LNAPL and the disposable material used during recovery were drummed as Investigation Derived Waste (IDW) following procedures outlined in the QAPP, and disposed of off-site at a licensed facility. Non-disposable material was decontaminated in the field.

2.5 Quality Assurance and Quality Control (QA/QC)

Sampling and analysis QA/QC was maintained and monitored by collection and analysis of field QA/QC samples and analysis of method-required laboratory QA/QC samples. Two duplicates, two matrix spike/matrix spike duplicates (MS/MSD), and two equipment blanks were collected during the spring 2010 groundwater sampling event and one duplicate, MS/MSD and equipment blank were collected during the fall 2010 sampling event. One duplicate, one MS/MSD, and one equipment blank were collected during each surface water sampling event. For each sampling event, one trip blank was sent with each shipment containing samples for VOC analysis and one temperature control blank was placed in each cooler. All QA/QC samples were recorded in the field log book and are summarized on the Field Sample Data Forms in Appendix A, as applicable.

Samples generated in the field were appropriately preserved, placed on ice and stored at approximately 4°C immediately upon collection, and shipped to the laboratory in accordance with standard chain-of-custody procedures. Field personnel collecting the samples were responsible for the custody of the samples until transportation to the laboratory. All samples were recorded on the chain-of-custody forms. Sample transfer required the individuals relinquishing and receiving the samples to sign, date, and note the time on the chain-of-custody forms. Chain-of-custody records and laboratory analytical reports are included in Appendix B. Results of the QA/QC sample analyses are included with the laboratory analytical reports. The data generated by analysis of these samples was used to evaluate the quality of both field and laboratory procedures.

2.6 Decontamination and Investigation-Derived Waste (IDW)

Field equipment, such as non-dedicated sampling or down-hole measurement equipment, was decontaminated between each sampling location following the procedures outlined in the QAPP. Purge water generated during the sampling event was placed into Department of Transportation (DOT)-approved 55-gallon steel drums and stored on Site. Brown and Caldwell clearly labeled each drum based on the contents and date, as required for proper storage. Groundwater analytical results were evaluated to characterize the purge water for transportation and disposal by a licensed waste hauler retained by Meritor. Brown and Caldwell recorded the number of drums, estimated volume of purge water, and analytical results for purposes of disposal. The waste hauler developed the waste disposal manifests and delivered the manifests to Meritor for signature. The waste hauler then re-labeled each drum for transport, transported the drums under manifest for disposal on behalf of Meritor, and provided final return manifests to Meritor.

2.7 Health and Safety

All field activities were conducted in accordance with a site-specific Health and Safety Plan (HASP), dated March 2010, which was developed consistent with Occupational Safety and Health Administration (OSHA) requirements.

Section 3

Monitoring Results

CY2010 monitoring events included bi-annual groundwater monitoring for the corrective measures monitoring wells, annual post-closure groundwater monitoring for the Equalization Lagoon, and semi-annual monitoring of the PRB monitoring wells and surface water. Table 1-1 indicates the monitoring wells sampled as part of the 2010 sampling events and the target analytical parameters associated with each well. The following sections discuss the results of the monitoring events. Complete laboratory analytical reports are included in Appendix B.

3.1 Groundwater Flow

The water level elevations measured for each of the wells sampled during CY2010, along with the historical groundwater elevations, are listed in Table 3-1. The measurements were used to evaluate the potentiometric surface of the water table aquifer for estimation of groundwater flow direction and gradient. Figures 3-1 and 3-25 represent the potentiometric surface maps for the uppermost portion of the Upper Aquifer for groundwater measurements obtained in the spring and fall of 2010, respectively. Figures 3-3 and 3-4 represent the potentiometric surface maps for the lower portion of the Upper Aquifer for groundwater measurements obtained in the spring and fall of 2010, respectively. The groundwater flow direction within the water table aquifer was determined to be to the west toward Riverdale Creek, which is consistent with past observations of groundwater flow direction.

The hydraulic gradient measured across the Site (between wells MW-11 and MW-41) in the uppermost portion of the Upper Aquifer was 0.004 during the spring 2010 monitoring event and 0.003 during the fall 2010 monitoring event. The hydraulic gradient measured across the Site (between wells MW-8 and MW-42) in the lower portion of the Upper Aquifer was also 0.004 during the spring 2010 monitoring event and 0.003 during the fall 2010 monitoring event.

3.2 Groundwater Quality

The analytical results from the CY2010 sampling events are summarized in Tables 3-2, 3-3 and 3-4 for VOCs, semi-volatile organic compounds (SVOCs) and metals, respectively. Historical data are also included in the tables for reference. Concentrations in Tables 3-2 through 3-4 that exceeded the EPA Maximum Contaminant Level (MCL) are highlighted. The analytical data presented in Tables 3-2 and 3-4 were used to generate concentration trend graphs for select constituents for the wells sampled in 2010. These trend graphs are included in Appendix C. The constituents graphed included TCE, cis-1,2-DCE, vinyl chloride, toluene, arsenic and total chromium. For purposes of the concentration trend graphs, non-detected constituents were represented by the detection limit on the graphs. Field-measured parameters are summarized in Table 3-5.

The spring and fall 2010 analytical results for TCE, cis-1,2-DCE, and vinyl chloride are shown on Figures 3-5 and 3-6 for the shallow and deeper portions of the Upper Aquifer, respectively. Individual constituent concentration contours for these three VOCs, plus total chromium, are presented for both the shallow and deep wells as Figures 3-7 through 3-14.

The groundwater quality is discussed below for the various programs monitored in CY2010.

3.2.1 PRB Corrective Measures Monitoring Results

Thirteen monitoring wells associated with the PRB were sampled in the spring and fall of 2010. These wells included seven wells screened within the upper portion of the Upper Aquifer and six wells screened within the lower portion of the Upper Aquifer. The PRB well samples were analyzed for VOCs and metals. The purpose of the PRB monitoring is to evaluate the effectiveness of the PRB. The CY2010 monitoring results are discussed below.

3.2.1.1 Volatile Organic Compounds

A comparison of VOC concentrations from the 2003 baseline event and historical events to the CY2010 results indicate that, in general, the groundwater concentrations have trended downward or have remained relatively stable over time. However, exceptions to these patterns and specific observations relative to the CY2010 data and data trends include the following:

- Three shallow monitoring wells are located downgradient of the PRB. One of these wells, MW-47, has consistently indicated VOC concentrations below the MCLs. Of the other two downgradient wells, MW-41 indicated MCL exceedances of TCE and cis-1,2-DCE for the spring 2010 sampling event but not the fall 2010 sampling event. Additional monitoring data are needed to further evaluate the validity of these exceedances since these were the only MCL exceedances observed for MW-41 in recent years since the 2003 baseline event. The third well located downgradient of the PRB, MW-14, indicated MCL exceedances of TCE, cis-1,2-DCE, and vinyl chloride for both 2010 sampling events, and has indicated apparent increased concentrations of these compounds in recent years since the 2003 baseline event. Additional monitoring data are needed to further evaluate the trends in this well and the effectiveness of the PRB in the area upgradient of this location.
- Two deeper monitoring wells (MW-42 and MW-48) are located downgradient of the PRB, coupled with shallow wells MW-41 and MW-47, respectively. Both of these wells indicated MCL exceedances of TCE, cis-1,2-DCE, and vinyl chloride for both 2010 sampling events. The data for MW-42 indicate an apparent subtle increase in VOC concentrations in recent years since the 2003 baseline event. VOC concentrations in MW-48 have fluctuated over the years, with several MCL exceedances observed. Additional monitoring data are needed to further evaluate the trends in these wells and the effectiveness of the PRB.
- Two shallow/deep well couplets are located within the PRB, consisting of wells MW-43/ MW-44 and wells MW-49/MW-50. In CY2010, shallow wells MW-43 and MW-50 continued to indicate low-level concentrations of VOCs. No MCL exceedances were observed for MW-43, except for benzene. Benzene has been regularly detected in MW-43 over time and its source is uncertain. Shallow well MW-50 indicated MCL exceedances of TCE and vinyl chloride for the spring 2010 sampling event and cis-1,2-DCE and vinyl chloride for the fall 2010 sampling event. Deep well MW-44 indicated MCL exceedances for only vinyl chloride in both CY2010 sampling events. Deep well MW-49 indicated MCL exceedances for cis-1,2-DCE and vinyl chloride for both CY2010 sampling events.

3.2.1.2 Metals

In general, the CY2010 metals data are consistent with historical data. The only MCL exceedances observed in CY2010 for metals measured in shallow or deep monitoring wells downgradient of the PRB were for arsenic. Arsenic exceeded the MCL in for both the spring and fall sampling events in shallow well MW-14 and deep well MW-48. Arsenic exceeded the MCL for just the fall 2010 sampling event in shallow well MW-47. There were no MCL exceedances indicated for CY2010 in shallow well MW-41 and MW-42. In addition, arsenic concentrations observed during the CY2010 sampling events were generally consistent with previous sampling events. Arsenic is not considered a COC for this Site and its presence in these monitoring wells is likely a result of the reducing conditions that are generated in the aquifer downgradient of the PRB. Arsenic is not detected in Riverdale Creek above MCLs or relevant surface water aquatic life criteria.

Total chromium was detected above the MCL for this metal (0.1 mg/L) at wells MW-23, MW-45, and MW-46. The total chromium detections at these wells are likely due to the presence of hexavalent chromium in localized groundwater in the vicinity of these wells. Hexavalent chromium does not appear to form significant plumes at this Site due to the reducing conditions and the likelihood that it is reduced to chromium III within a relatively short distance of travel in the aquifer. Chromium III is nearly insoluble in groundwater and does not contribute to plume formation. Several additional wells had low level detections of total chromium that were not associated with corresponding detections of hexavalent chromium. These low level detections of total chromium are likely a result of minor sediment entrapment in the groundwater samples, and are, in any case significantly below the MCL for this parameter.

3.2.2 Equalization Lagoon Post-Closure Monitoring Results

Four shallow monitoring wells associated with the closed Equalization Lagoon were sampled in the spring and of 2010. These wells included one upgradient well (MW-23) and three downgradient wells (RT-2, RT-4, and RT-5). The Equalization Lagoon well samples were analyzed for VOCs, SVOCs, and metals. The purpose of the Equalization Lagoon monitoring is to evaluate the effectiveness of the lagoon closure. The CY2010 monitoring results are discussed below. A statistical comparison of concentrations in wells associated with the post-closure monitoring is presented in Section 3.3.

3.2.2.1 Volatile Organic Compounds

VOC results from the CY2010 annual sampling event were generally consistent with data from recent years for the three downgradient wells with overall concentrations being relatively stable and showing a subtle decrease over time since the 2003 baseline sampling event. A similar trend is apparent for upgradient well MW-23, however detected concentrations of TCE and cis-1,2-DCE have fluctuated since the 2003 baseline sampling event for this well. The CY2010 sampling event indicated MCL exceedances of TCE, cis-1,2-DCE, and vinyl chloride in the upgradient and downgradient wells for the former Equalization Lagoon. In addition, upgradient well MW-23 indicated a 1,1-dichloroethene (1,1-DCE) MCL exceedance, and downgradient well RT-2 indicated MCL exceedances for 1,1-DCE and PCE.

3.2.2.2 Semi-volatile Organic Compounds

SVOC results from the CY2010 annual sampling event were generally consistent with data from recent years with concentrations being relatively stable. The only MCL exceedance observed in CY2010 was for pentachlorophenol in RT-2.

3.2.2.3 Metals

Metals results from the CY2010 annual sampling event were generally consistent with data from recent years with overall concentrations being relatively stable and showing a subtle decrease over time since the 2003 baseline sampling event. The only MCL exceedances observed in CY2010 were for total chromium in upgradient well MW-23 and arsenic in downgradient well RT-4.

3.2.3 Site-wide Corrective Measures Monitoring Results

Thirty monitoring wells were sampled during the spring 2010 sampling event as part of the Site-wide Corrective Measures Monitoring Program. The spring 2010 sampling event represented a biennial sampling event for the Site. Thirteen of the 30 wells were also sampled as part of the PRB Corrective Measures program and three wells were sampled as part of the Equalization Lagoon Post-closure Monitoring. The site-wide samples were analyzed for VOCs and metals. The purpose of the site-wide monitoring is to review the nature and extent of contamination at the Site, and identify potential changes in plume configuration and evaluate concentration trends over time. The CY2010 site-wide monitoring results are discussed below.

3.2.3.1 Volatile Organic Compounds

The following observations are based on review of the CY2010 analytical data and the constituent concentration contour maps included as Figures 3-7 through 3-14.

- The shallow groundwater VOC plume remains generally consistent with recent years and extends from the source area, which is considered to be immediately east of the main production building, to the PRB. The higher measured concentrations of TCE comprise the core of the plume. The plumes associated with TCE-degradation products cis-1,2-DCE and vinyl chloride are generally contained within the footprint of the TCE plume, but their cores do not appear to extend into the likely source area. Instead, their cores are located progressively downgradient as the plume(s) move along their flow path and TCE is reduced through reductive dechlorination and other natural processes to cis-1,2-DCE and vinyl chloride. The deep groundwater VOC plume(s) essentially mirror those in the shallow zone, but the deeper concentrations exhibit greater attenuation.

3.2.3.2 Metals

As indicated on Figures 3-10 and 3-14, total chromium is found above the MCL at only a few locations in the shallow aquifer. Where it is found above the MCL, the total chromium concentration is primarily composed of hexavalent chromium. Locations where hexavalent chromium is found are likely near shallow source areas for this metal. Once in the groundwater system, it is believed that the hexavalent chromium becomes reduced to trivalent chromium and is removed from the groundwater system by precipitation. It is not likely that hexavalent chromium forms significant groundwater plumes at this Site. Low-level total chromium detections occur at many wells across the Site, and are likely associated with minor levels of sediment that are entrained within the sampled groundwater. The total chromium concentrations in wells not affected by hexavalent chromium are very low level and not close to the MCL for this metal.

3.2.4 Equalization Lagoon Post-Closure Statistical Analysis

In accordance with Condition IV.L of the Grenada facility permit, a statistical comparison of concentrations in wells associated with the CY2010 Equalization Lagoon post-closure sampling event was performed.

3.2.5 Statistical Analyses

Analytical results for the CY2010 sampling event are summarized in Tables 3-2 through 3-4. The data were compared to the statistical limits that were developed as discussed in Section 2. The parameters statistically analyzed were trans-1,2-DCE, TCE, vinyl chloride, 1,2,4-trichlorobenzene, naphthalene, 2-methylnapthalene, total chromium, and arsenic.

As reported in previously submitted annual reports, two total chromium background data points (1.07 milligrams per liter [mg/L] in April 2002 and 0.895 mg/L in April 2003) were not used from MW-23 in the statistical analysis. These data points are considered outliers based on the results of the First Semi-Annual Groundwater Monitoring Report for 2003, and the Second Semi-Annual Groundwater Monitoring Report, both prepared by Global Environmental Solutions, Inc. (GESI). These reports state that these samples were adversely influenced by the presence of high turbidity.

A summary of the statistical analyses conducted on the fall 2010 data is presented in Table 3-6. This table contains the following information:

- The number of sample results in the background well (MW-23), number and percentage of results below the analytical detection limits (non-detects), and whether the data were transformed in order to achieve normality,
- The statistical method used for each parameter,

- The statistical prediction limits,
- Sample results for the compliance wells, and
- A determination of whether there was a statistical exceedance in comparison to well MW-23 background data.

Review of the data presented in Table 3-6 indicates the following:

- A statistically significant concentration above background exists for vinyl chloride in well RT-2, however, the CY2010 concentration is below the 2003 baseline sampling result.
- Statistically significant concentrations above background exist for trans-1,2-DCE and vinyl chloride in well RT-4, however, the CY2010 vinyl chloride concentration is below the 2003 baseline sampling result and the 2010 trans-1,2-DCE is only slightly above historical results for this well.
- There are no statistically significant concentrations above background values in RT-5.

The results of the statistical analysis are consistent with previous evaluations.

3.3 QA/QC Results

Table 3-7 summarizes the results of the QA/QC sample data collected for the VOC and metals samples during the CY2010 sampling events. The following represent the performance criteria excursions:

- The field blanks for both groundwater and surface water samples collected during the April 2010 event indicated toluene detections were greater than the laboratory reporting limit. Toluene was also detected in the field blank submitted with that sample delivery group (SDG) as well. The source of the toluene detected in the field blanks is uncertain. In response to these detections, the surface water locations were resampled in July 2010.
- The MS/MSD sample for MW-14 showed the trichloroethene value outside the QC limits.
- The field blank collected during groundwater sampling in October 2010 showed methylene chloride and xylene concentrations which were greater than the laboratory reporting limit.
- The trip blank submitted with SDG# indicated benzene, 1,1-DCE, and vinyl chloride detections above the laboratory reporting limit. However, no VOCs were detected in a second trip blank submitted with this same SDG.

Based on review of the QA/QC sample data, Brown and Caldwell considers the analytical data valid for its intended used despite the performance criteria excursions noted above.

3.4 Surface Water Results

The surface water sample analytical results from semi-annual monitoring conducted in CY2010, as well as historical data, are summarized in Tables 3-8 and 3-9. The results are presented in order from upstream to downstream sample locations. A brief discussion of the data is presented below. During the April 2010 surface water sampling event toluene was detected in the field blank as noted in section 3.4. Although Toluene was not detected in the surface water samples collected in April 2010, Brown and Caldwell performed a re-sample event in July 2010, which was used to represent the spring 2010 sampling event. The analytical data from both sampling events are summarized in Tables 3-8 and 3-9 for VOCs and metals, respectively, however, only the July 2010 sampling event results are discussed below. The surface water analytical report is included in Appendix B.

3.4.1 VOCs

Surface water VOC data are presented in Table 3-8, along with historical data. TCE concentrations generally have remained consistent or decreased in samples from locations SW-9, SW-12, SW-17, and SW-19 since the PRB was installed. TCE and cis-1,2-DCE declined significantly in concentration with the

installation of the PRB in 2004/2005 in all locations except the upstream location, which has remained at or below detection limits throughout its sampling history. While TCE and VC were detected at or slightly above their respective MCLs at all locations downgradient of the PRB during CY2010, the observed concentrations are significantly lower than concentrations observed at each location prior to the installation of the PRB and the concentrations of these compounds appear to be stable or declining at each location. Cis-1,2-DCE was not detected above its MCL in any of the surface water sampling locations in CY2010. This is in contrast to multiple cis-1,2-DCE detections that exceeded MCLs prior to the installation of the PRB.

3.4.2 Metals

Surface water metals data are presented in Table 3-9, along with historical data. Arsenic and total chromium were detected just above detection limits in the spring 2010 sampling event at each sample location, but neither constituent were detected during the fall 2010 sampling event. Hexavalent chromium was not detected in surface water during CY2010. Lead was detected near the detection limit during CY2010.

As shown in Table 3-9, MDEQ provides Aquatic Life Criteria and Human Health Criteria for three of the four metals monitored in surface water at the Site. These criteria are available for arsenic, hexavalent chromium, and lead. MDEQ has issued levels for trivalent chromium in surface water; however, since the surface water samples are not directly analyzed for trivalent chromium, those criteria are not included in Table 3-9. The only surface water criteria exceedance observed in CY2010 was for lead. Lead exceeded the Chronic Aquatic Life Criteria at the SW-9 location during the spring 2010 sampling event. The measured concentration was 0.00192 mg/L, compared to the Chronic Aquatic Life Criterion of 0.0018 mg/L. Lead was not detected at this location during the fall 2010 sampling event, nor had it been detected in previous sampling events dating back to the 2003 baseline event. This lead criterion was also exceeded in the duplicate sample collected from the SW-12 location during the fall 2010 sampling event. However, lead was not detected at this location in the parent sample of the duplicate during that event or during the spring 2010 event. Lead had never exceeded aquatic criteria in previous sampling events dating back to the 2003 baseline sampling event and lead is not considered a COC for this monitoring program. Lead concentrations will be monitored closely in future sampling events, but it is not expected that lead is or will become a concern for surface water as it relates to groundwater discharge from the Site to Riverdale Creek.

3.5 LNAPL Recovery

During the fall 2010 monitoring event, LNAPL product thickness was measured in all of the RC wells and LNAPL was recovered from the only two wells that indicated a measurable LNAPL thickness (i.e., RC-2 and RC-4). A summary of the CY2010 recovery efforts, as well as historical data, is provided in Table 3-10. Approximately 14.56 gallons of LNAPL were collected from RC-2 and RC-4 in CY2010 (7.69 gallons and 6.87 gallons, respectively).

3.6 Monitoring Program Evaluation

The Groundwater Monitoring Program Optimization Report, submitted by Brown and Caldwell in 2008, indicated that the PRB and Equalization Lagoon Post-Closure Monitoring Programs should be re-evaluated approximately every two years, and the Site-Wide Monitoring Program re-evaluated approximately every four years. The purpose of these periodic re-evaluations is to ensure that the monitoring programs are meeting their objectives, and to propose additional optimization where appropriate. The current monitoring programs are addressed below.

3.6.1 PRB Corrective Measures Monitoring Program

Brown and Caldwell is evaluating the potential use of low-flow groundwater sampling methods at the Site. Low-flow sampling methods may reduce sampling time and purge water management without compromising the integrity of the groundwater samples. Brown and Caldwell is currently evaluating this alternative and will provide a formal proposal for this modification to EPA for review, if it is determined that low-flow sampling is appropriate for the Site.

3.6.2 Equalization Lagoon Post-Closure Monitoring Program

Brown and Caldwell is evaluating the potential use of low-flow groundwater sampling methods at the Site, as discussed in Section 3.7.1.

3.6.3 Site-Wide Corrective Measures Monitoring Program

3.6.3.1 Groundwater Monitoring

Brown and Caldwell is evaluating the potential use of low-flow groundwater sampling methods at the Site as discussed in Section 3.7.1.

Shallow crossgradient well MW-20 could not be found during the CY2010 sampling events. This well is a flush-mounted well located in the southern gravel berm of the unnamed street just north of the railroad. The well has apparently been covered by gravel during road grading activities. Brown and Caldwell located this well during the fall 2011 sampling event by using a metal detector and GPS unit. Meritor will review the analytical results from MW-20 for the fall 2011 sampling event to determine if additional investigation is warranted for this area. Low level VOC detections have occurred in this area since the initiation of sampling at MW-20. If necessary, Meritor will install a new well that is located north of MW-20 to better define the northern edge of the groundwater VOC plume in this area.

3.6.3.2 Surface Water Monitoring

Consistent with modifications made to the groundwater target analyte list in response to the Groundwater Optimization Report, Brown and Caldwell proposes that SVOCs [i.e., bis (2-ethylhexyl) phthalate] be formally removed from the target analyte list for surface water. It was assumed that SVOCs would be removed from the surface water monitoring program following the removal of these compounds from the groundwater program. If SVOCs are not COCs in groundwater, then they cannot be expected to contribute to SVOC detections in surface water due to groundwater infiltration. However, SVOCs were not formally removed from the surface water monitoring program due to the fact that the Groundwater Monitoring Program Optimization Plan did not address surface water, and Meritor is now formally requesting the removal of SVOCs from surface water monitoring through this biennial monitoring program review. Brown and Caldwell also proposes that the monitoring frequency for surface water be formally changed from quarterly to semi-annually to be consistent with the PRB Corrective Measures Monitoring Program. Sampling to date has indicated that surface water COC concentrations change only slightly between sampling events and monitoring the surface water more frequently than semi-annually will not provide substantial benefit to this monitoring program.

3.6.3.3 Sediment Monitoring

Consistent with modifications made to the groundwater target analyte list in response to the Groundwater Optimization Report, Brown and Caldwell proposes that SVOCs [i.e., bis (2-ethylhexyl) phthalate] be formally removed from the target analyte list for sediment. The reasoning for removing SVOCs is the same as that used above in Section 3.7.3.2 for surface water monitoring. SVOCs have been shown to not be a COC for the groundwater system. If SVOCs are not present in groundwater, then monitoring for a groundwater contribution to sediment SVOCs does not appear to provide a tangible benefit.

Section 4

Summary of Findings

Based upon the results of the CY2010 corrective measures and post-closure monitoring at the Grenada Manufacturing Site in Grenada, Mississippi, Brown and Caldwell offers the following findings:

- The groundwater flow direction at the Site, within both the shallow and deep portions of the Upper Aquifer, is to the west toward Riverdale Creek. The flow direction and gradients have been consistent over time.
- The VOC groundwater plumes in the shallow and deep portions of the Upper Aquifer extend from the source area immediately east of the main manufacturing building to the PRB. Concentrations in the deep zone are significantly lower than in the shallow zone. The groundwater plume configuration is consistent with recent years.
- The PRB remains effective at reducing contaminant concentrations in groundwater, evidenced by significantly higher measured concentrations upstream of the PRB versus downstream of the PRB. Two of the three shallow monitoring wells and both deep monitoring wells located downgradient of the PRB indicated MCL exceedances for VOCs, including some combination of TCE, cis-1,2-DCE and vinyl chloride. Similar exceedances have been observed for these wells in the past. The only metals MCL exceedance in wells downgradient of the PRB was for arsenic. Arsenic is not a Site COC and is not detected in Riverdale Creek at concentrations above MCLs or aquatic life criteria. The measured arsenic concentrations remained consistent with previous years.
- Post-closure monitoring of the Equalization Lagoon monitoring wells indicated VOC MCL exceedances and limited metals MCL exceedances in the three downgradient and one upgradient well. The measured concentrations were reasonably consistent with recent years, and generally below those concentrations measured during the 2003 baseline sampling event. Statistical evaluation of the post-closure monitoring data indicated that RT-2 and RT-4 have been impacted, in a manner consistent with previous monitoring events, and that the long-term trend for these wells is a slow decline in COC concentrations.
- Detected VOCs and metals in surface water were generally near or below the reporting limit, consistent with previous sampling events. There were two unconfirmed (detected in only one of two sampling events in CY2010) lead exceedances of the Chronic Aquatic Life Criterion for surface water. Lead had not exceeded the criterion in the past, it is not a known COC in the groundwater system, and it is likely that the detections of lead in surface water samples was either spurious or a result of an upstream source. Further evaluation of this will occur in future sampling events.
- Approximately 14.56 gallons of LNAPL were recovered from the NAPL recovery wells in CY2010.

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Figures

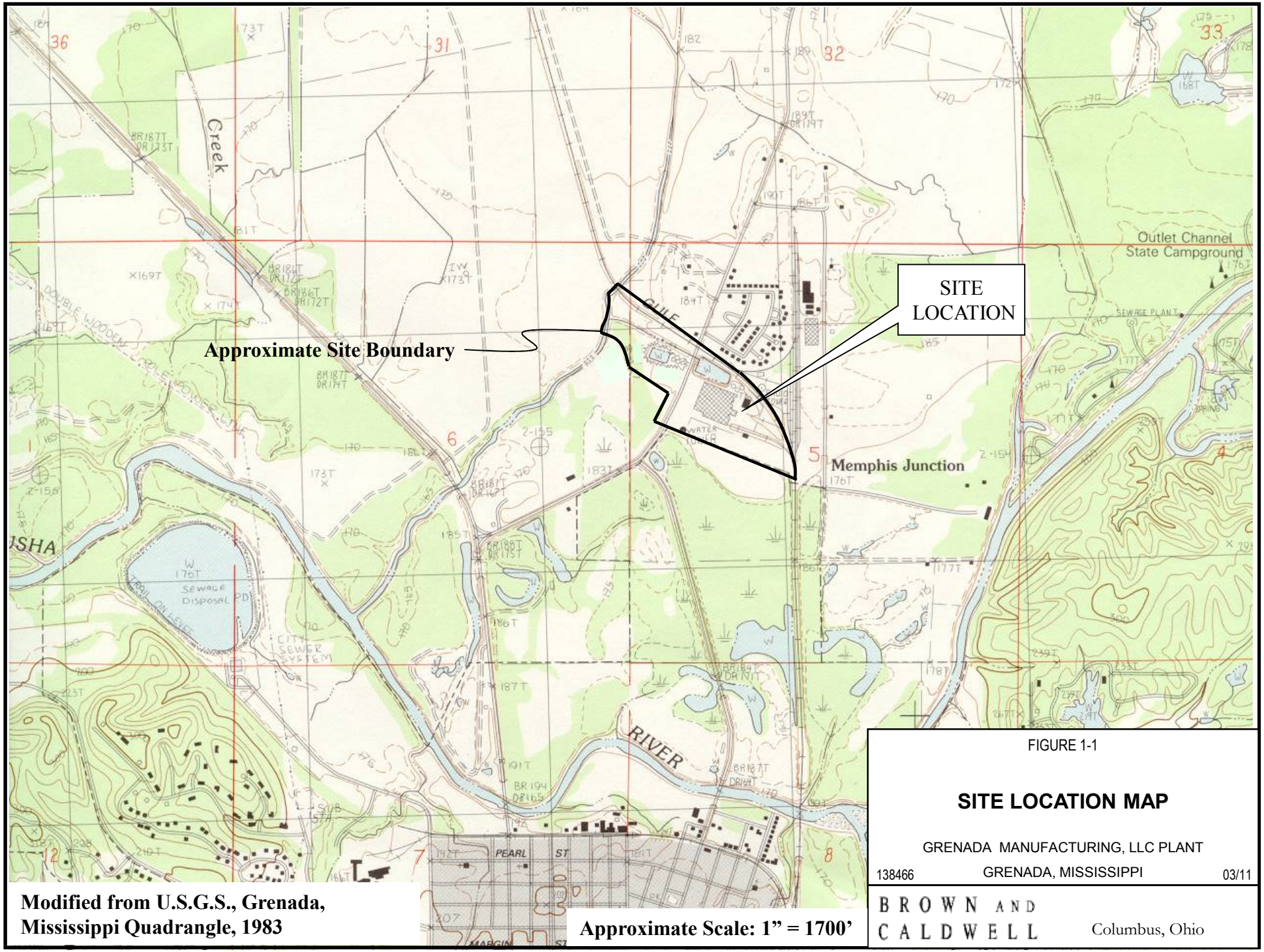


FIGURE 1-1

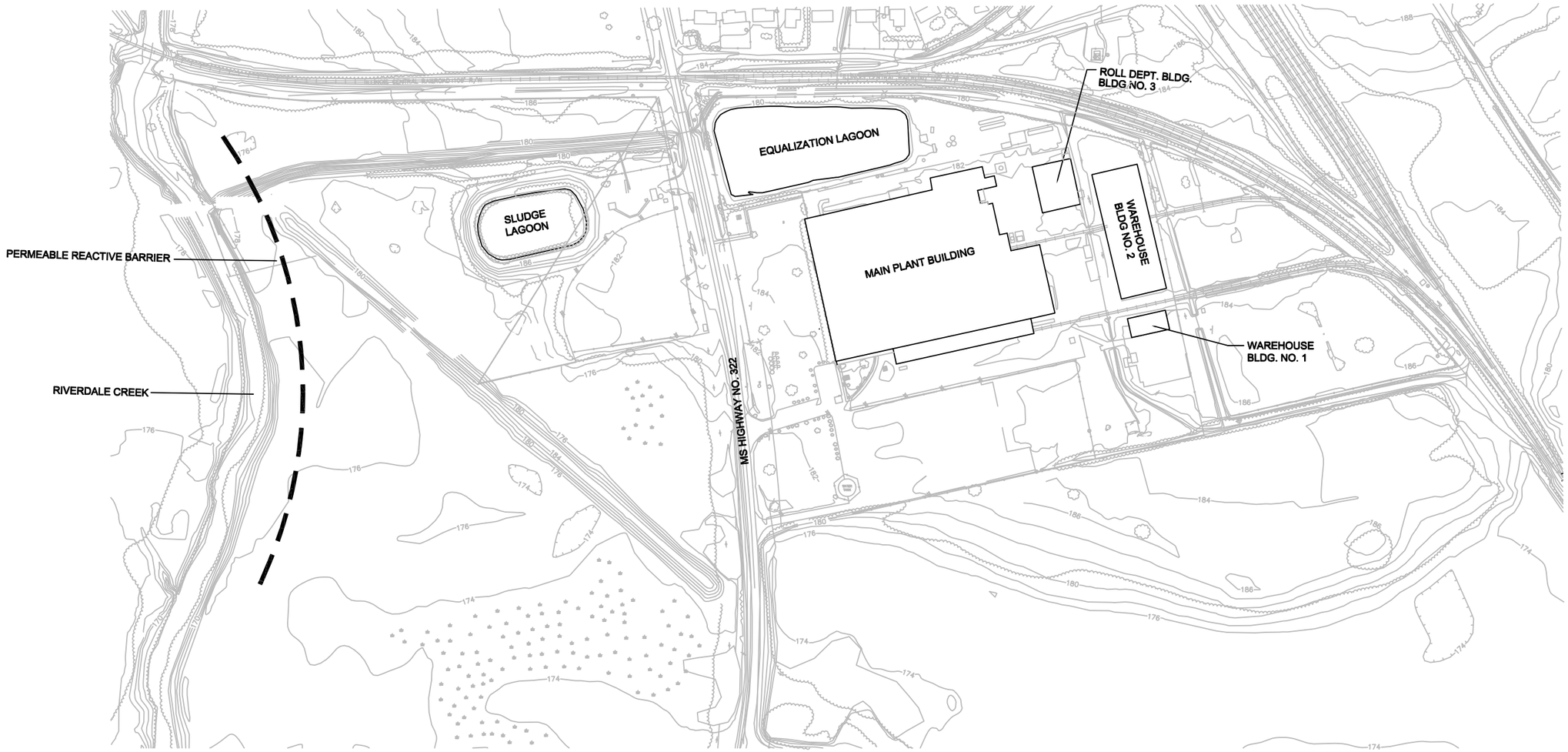
SITE LOCATION MAP

GRENADA MANUFACTURING, LLC PLANT

138466 GRENADA, MISSISSIPPI 03/11

BROWN AND CALDWELL Columbus, Ohio

Nov 08, 2011 - 11:34am bruhberg



300 0 300 600
SCALE FEET

FIGURE 1-2

SITE MAP

MERITOR, INC
GRENADA, MISSISSIPPI

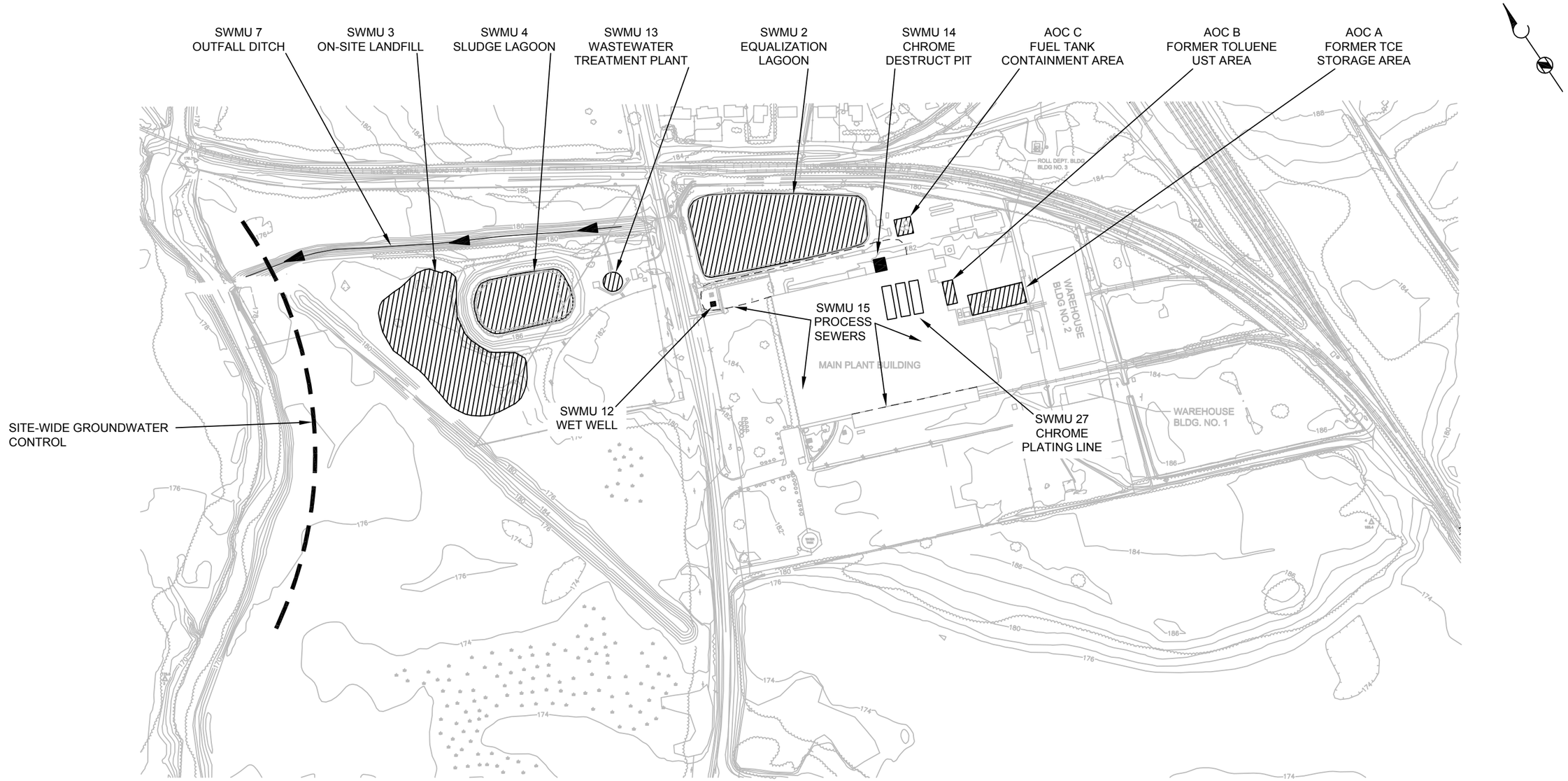
138466 03/11

Brown AND Caldwell
Columbus, Ohio

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005).

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 1-2.dwg

Nov 08, 2011 - 9:48am bruhberg



300 0 300 600
SCALE FEET

FIGURE 1-3

SITE AREAS OF CONCERN
AND
SOLID WASTE MANAGEMENT UNITS

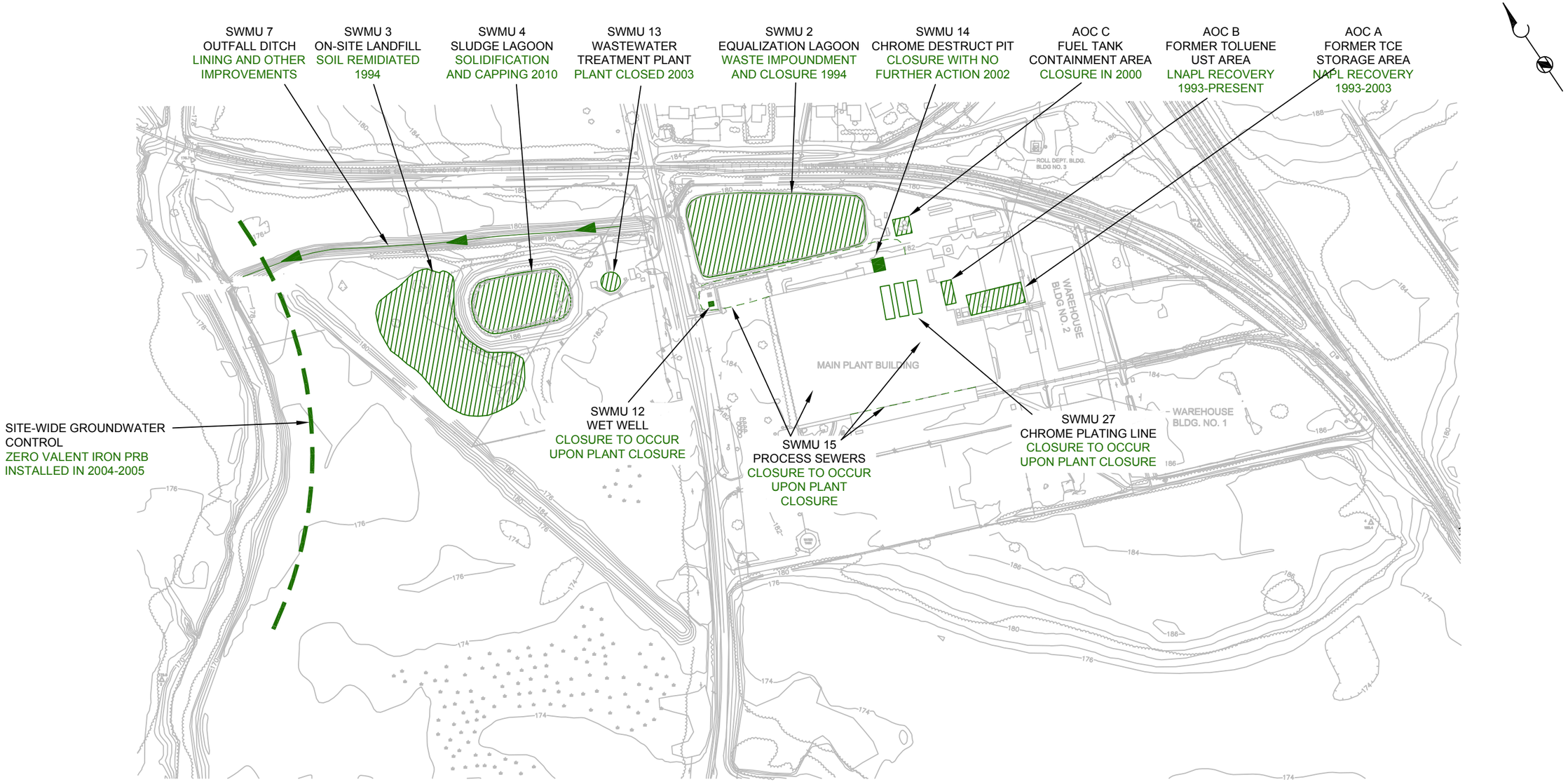
MERITOR, INC
SOLID WASTE MANAGEMENT UNITS

138466 03/11

Brown AND Caldwell
Columbus, Ohio

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005).

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 1-3.dwg



300 0 300 600
SCALE FEET

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005).

FIGURE 1-4

SITE WORK AND REMEDIATION COMPLETED FOR AREAS OF CONCERN AND SOLID WASTE MANAGEMENT UNITS

MERITOR, INC
SOLID WASTE MANAGEMENT UNITS

138466 03/11

Brown AND Caldwell
Columbus, Ohio

Nov 08, 2011 - 10:23am bruhberg

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 1-4.dwg

Nov 08, 2011 - 9:53am bruhberg

300 0 300 600
SCALE FEET

FIGURE 1-5

SITE CONCEPTUAL MODEL
SECTION LINE

MERITOR, INC
GRENADA, MISSISSIPPI

138466 03/11

Brown AND Caldwell
Columbus, Ohio

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005).

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 1-5.dwg

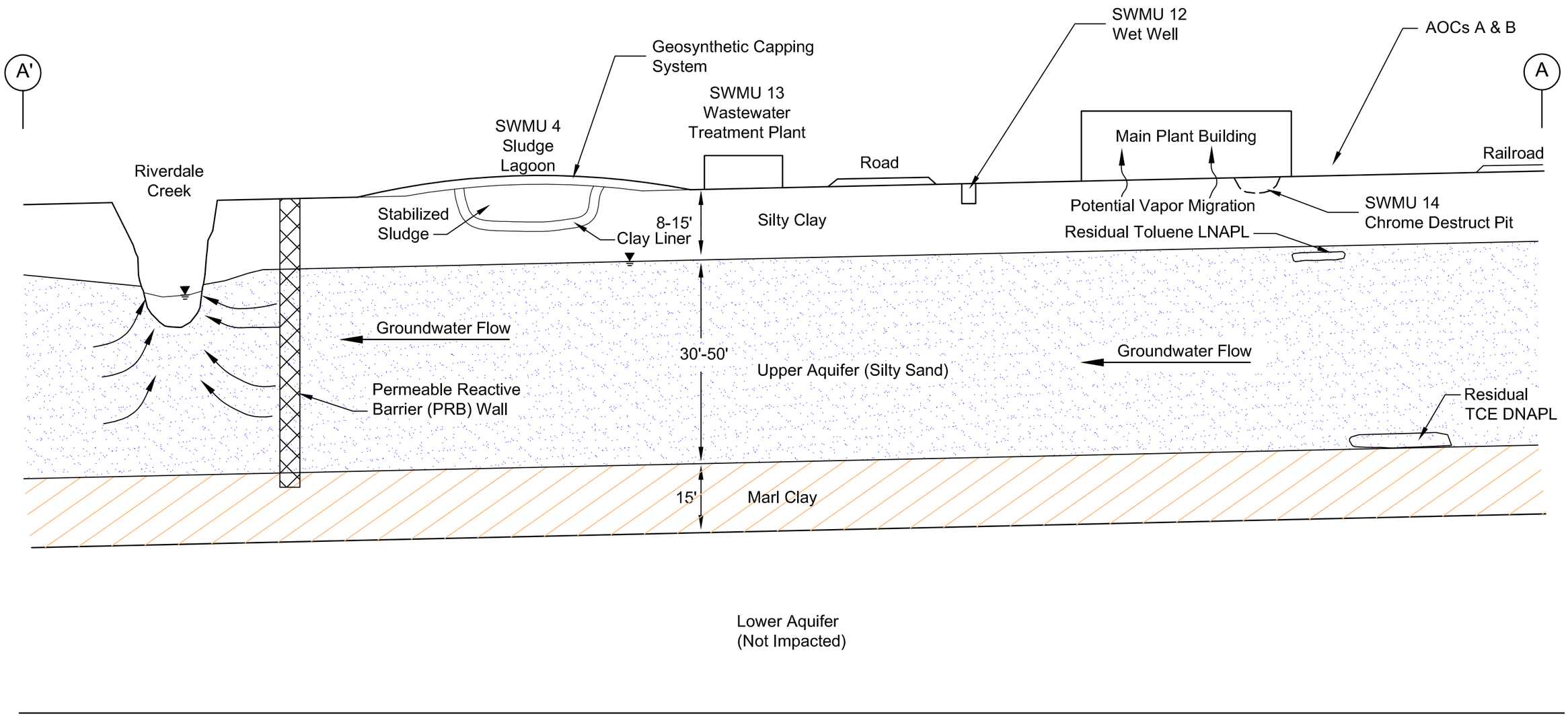


FIGURE 1–6

SITE CONCEPTUAL MODEL

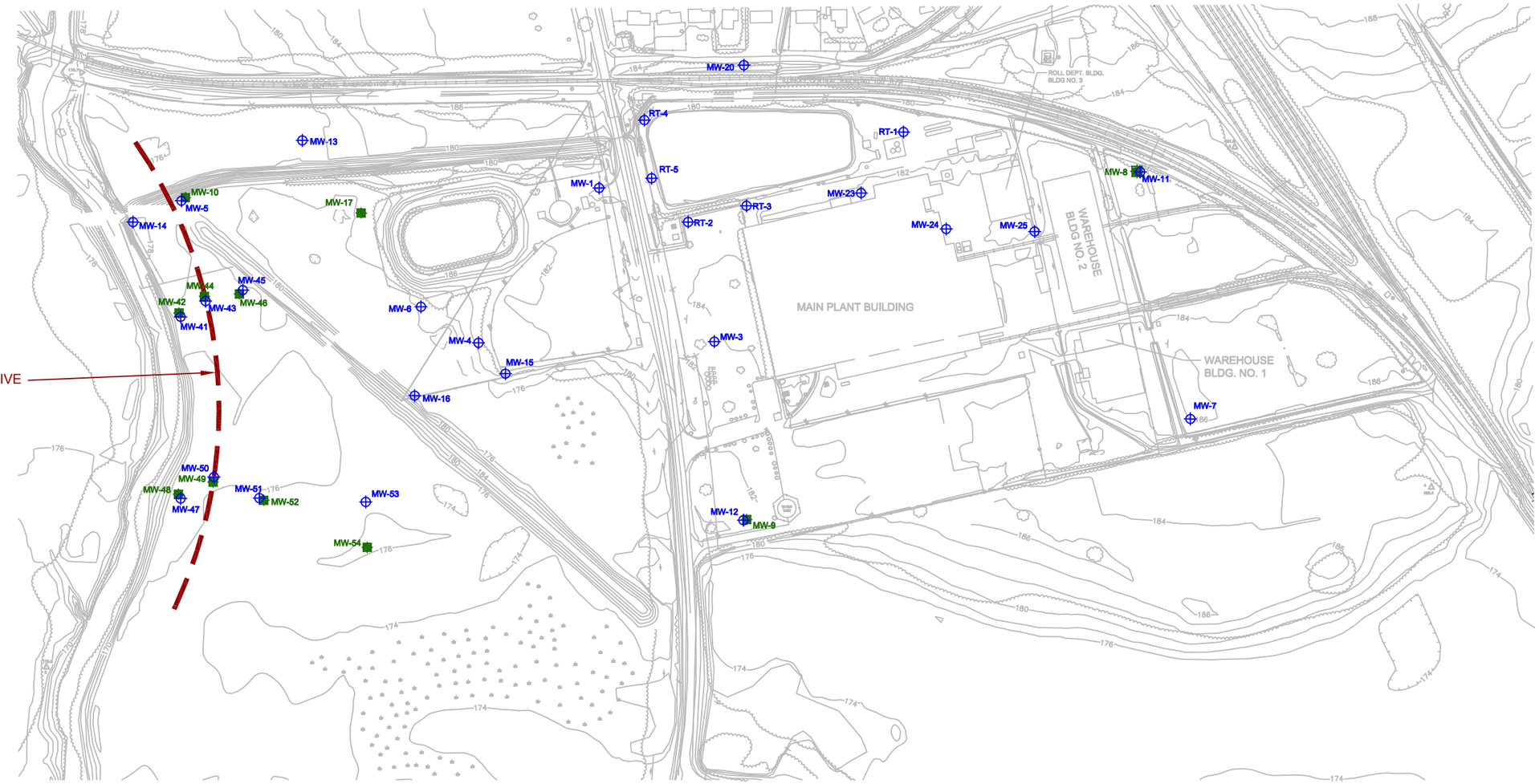
ICE INDUSTRIES, INC. PLANT
GRENADA, MISSISSIPPI

24254.008 07/03

Brown AND Caldwell Columbus, Ohio

DRAWING NO.: section.dwg DATE: 07/11/03 PLOT SCALE No Scale

Nov 07, 2011 - 10:42am bruhberg



LEGEND

UPPER MOST AQUIFER SHALLOW MONITORING WELL

UPPER MOST AQUIFER DEEP MONITORING WELL

300 0 300 600

SCALE FEET

FIGURE 2-1

GROUNDWATER SAMPLE LOCATIONS

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466 03/11

Brown AND Caldwell
Columbus, Ohio

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 2.dwg

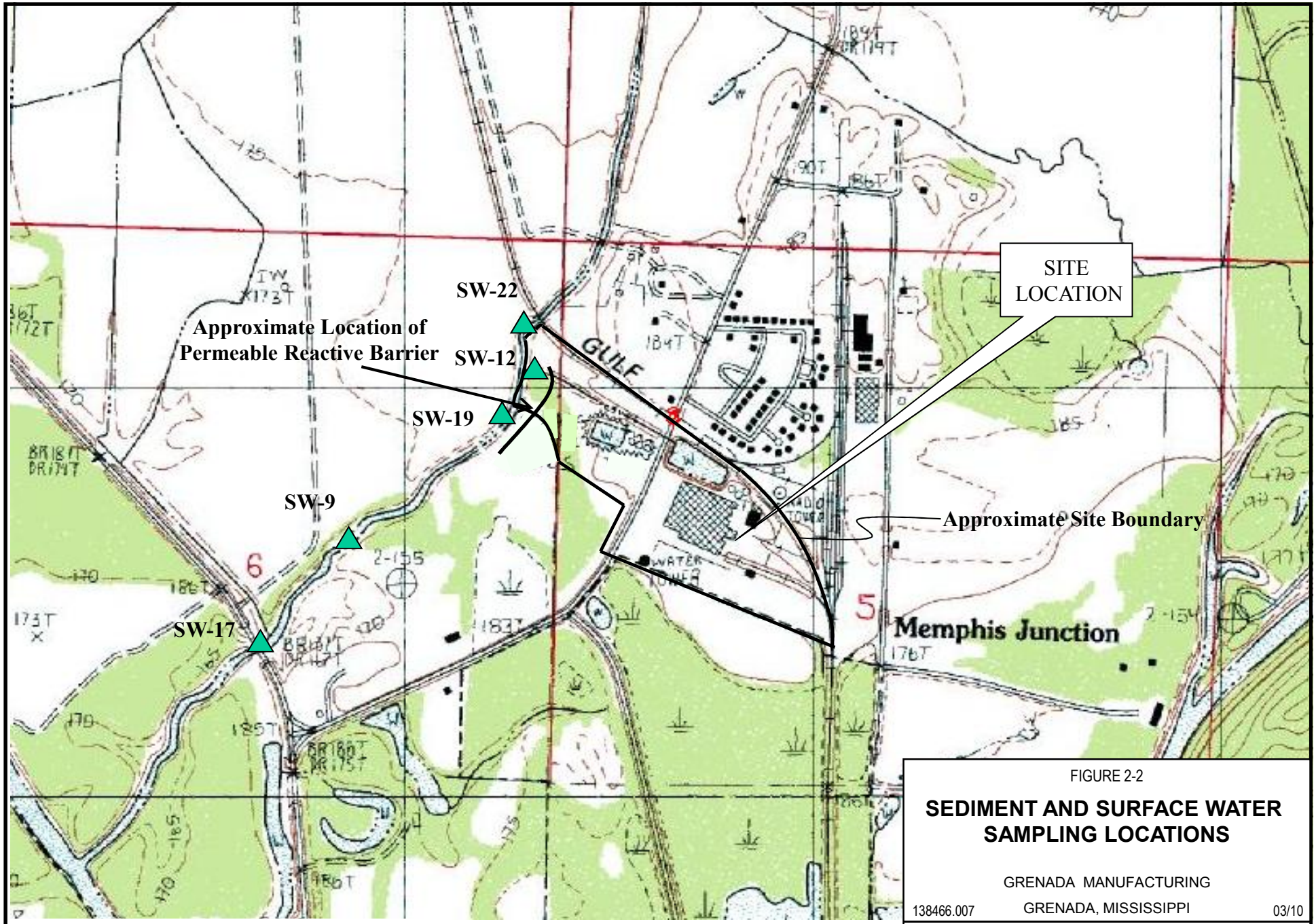


FIGURE 2-2

SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS

GRENADA MANUFACTURING

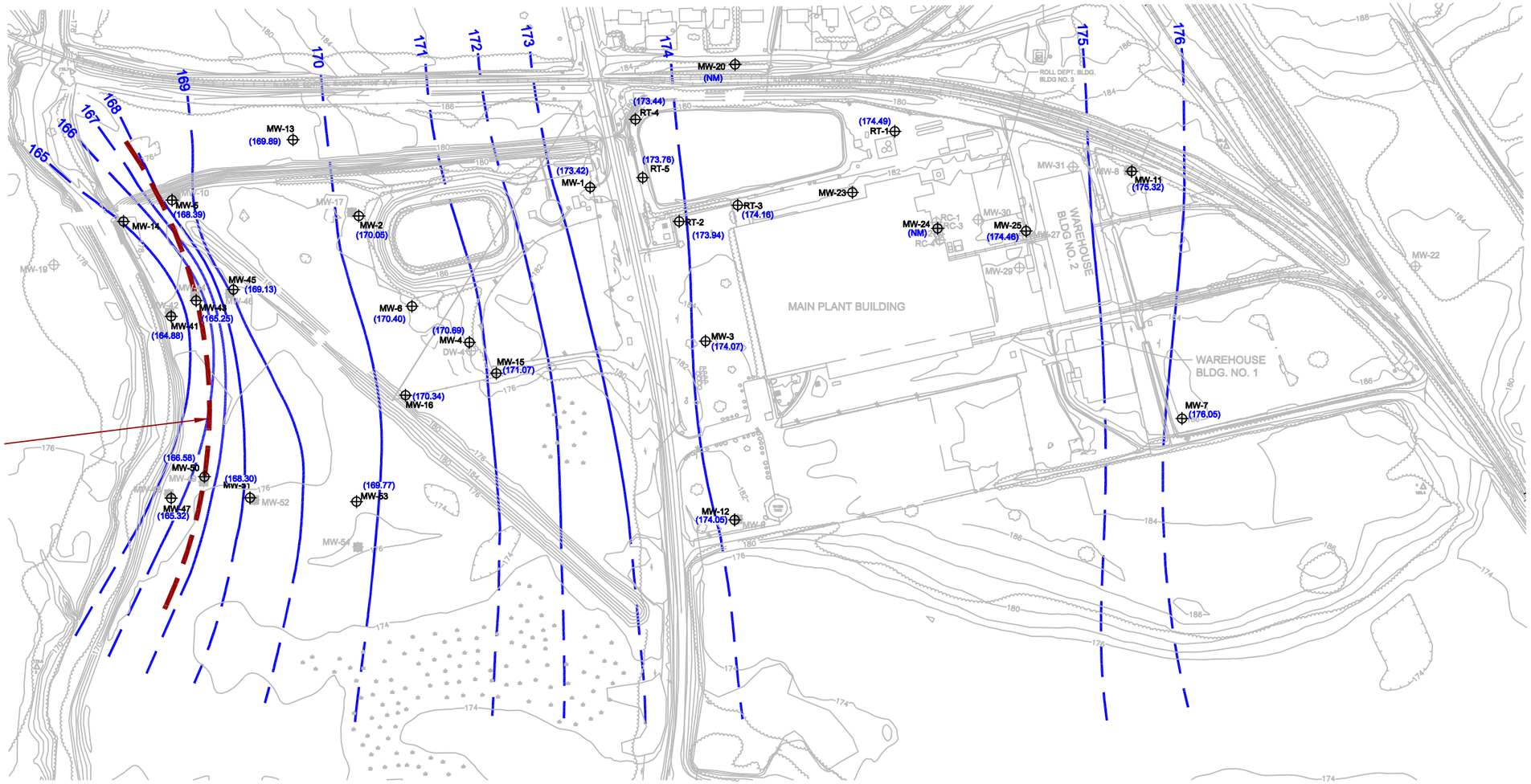
138466.007 GRENADA, MISSISSIPPI 03/10

Modified from U.S.G.S., Grenada, Mississippi Quadrangle, 1983

Approximate Scale: 1" = 1000'

BROWN AND CALDWELL Columbus, Ohio

Nov 07, 2011 - 1:04pm bruhberg



LEGEND

- ⊕ UPPER MOST AQUIFER SHALLOW MONITORING WELL
- ■ UPPER MOST AQUIFER DEEP MONITORING WELL
- NM NOT MEASURED
- (168.67) GROUNDWATER ELEVATION (FEET, MSL)
- GROUNDWATER ELEVATION CONTOUR (FEET, MSL) CONTOUR INTERVAL = 1 FOOT DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-1

SPRING 2010
POTENTIOMETRIC SURFACE
UPPER MOST AQUIFER
SHALLOW WELLS

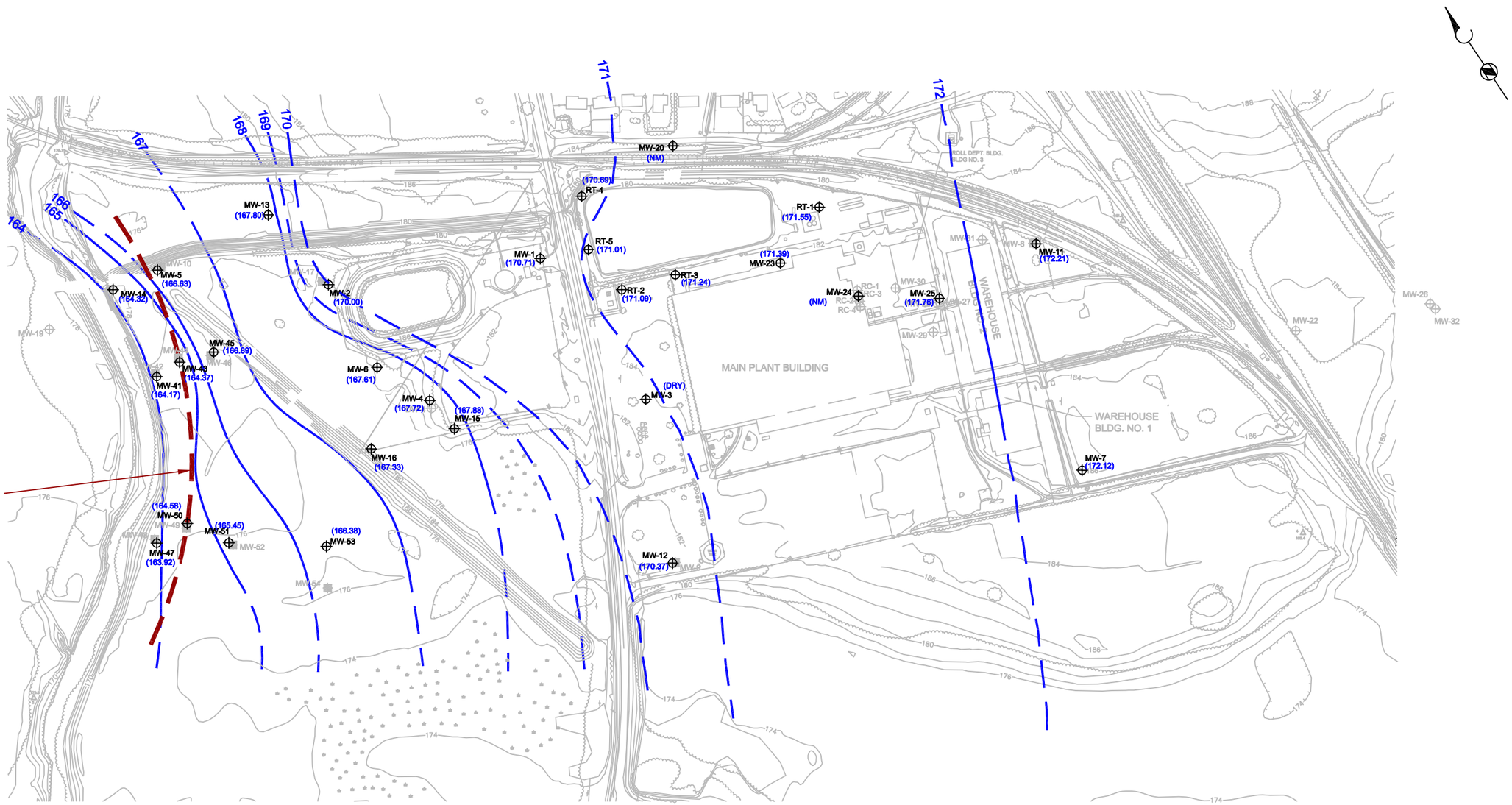
ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466 03/11

Brown AND Caldwell
Columbus, Ohio

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 4.dwg

Nov 07, 2011 - 1:05pm bruhberg



LEGEND

- ⌖ UPPER MOST AQUIFER SHALLOW MONITORING WELL
- ■ UPPER MOST AQUIFER DEEP MONITORING WELL
- NM NOT MEASURED
- (168.67) GROUNDWATER ELEVATION (FEET, MSL)
- GROUNDWATER ELEVATION CONTOUR (FEET, MSL) CONTOUR INTERVAL = 1 FOOT DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-2

FALL 2010
POTENTIOMETRIC SURFACE
UPPER MOST AQUIFER
SHALLOW WELLS

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466 03/11

Brown AND Caldwell
Columbus, Ohio

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 5.dwg

Nov 07, 2011 - 1:06pm bruhberg

LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL
- ART WELL WAS ARTESIAN AT TIME OF MEASUREMENT
- (168.67) GROUNDWATER ELEVATION (FEET, MSL)
- GROUNDWATER ELEVATION CONTOUR (FEET, MSL) CONTOUR INTERVAL = 1 FOOT DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-3

SPRING 2010
POTENTIOMETRIC SURFACE
UPPER MOST AQUIFER
DEEP WELLS

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466 03/11

Brown AND Caldwell
Columbus, Ohio

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 6.dwg

Nov 07, 2011 - 1:07pm bruhberg

LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL
- NM NOT MEASURED
- (168.67) GROUNDWATER ELEVATION (FEET, MSL)
- GROUNDWATER ELEVATION CONTOUR (FEET, MSL) CONTOUR INTERVAL = 1 FOOT DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-4

FALL 2010
POTENTIOMETRIC SURFACE
UPPER MOST AQUIFER
DEEP WELLS

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466 03/11

Brown AND Caldwell
Columbus, Ohio

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Nov 07, 2011 - 1:08pm bruhberg

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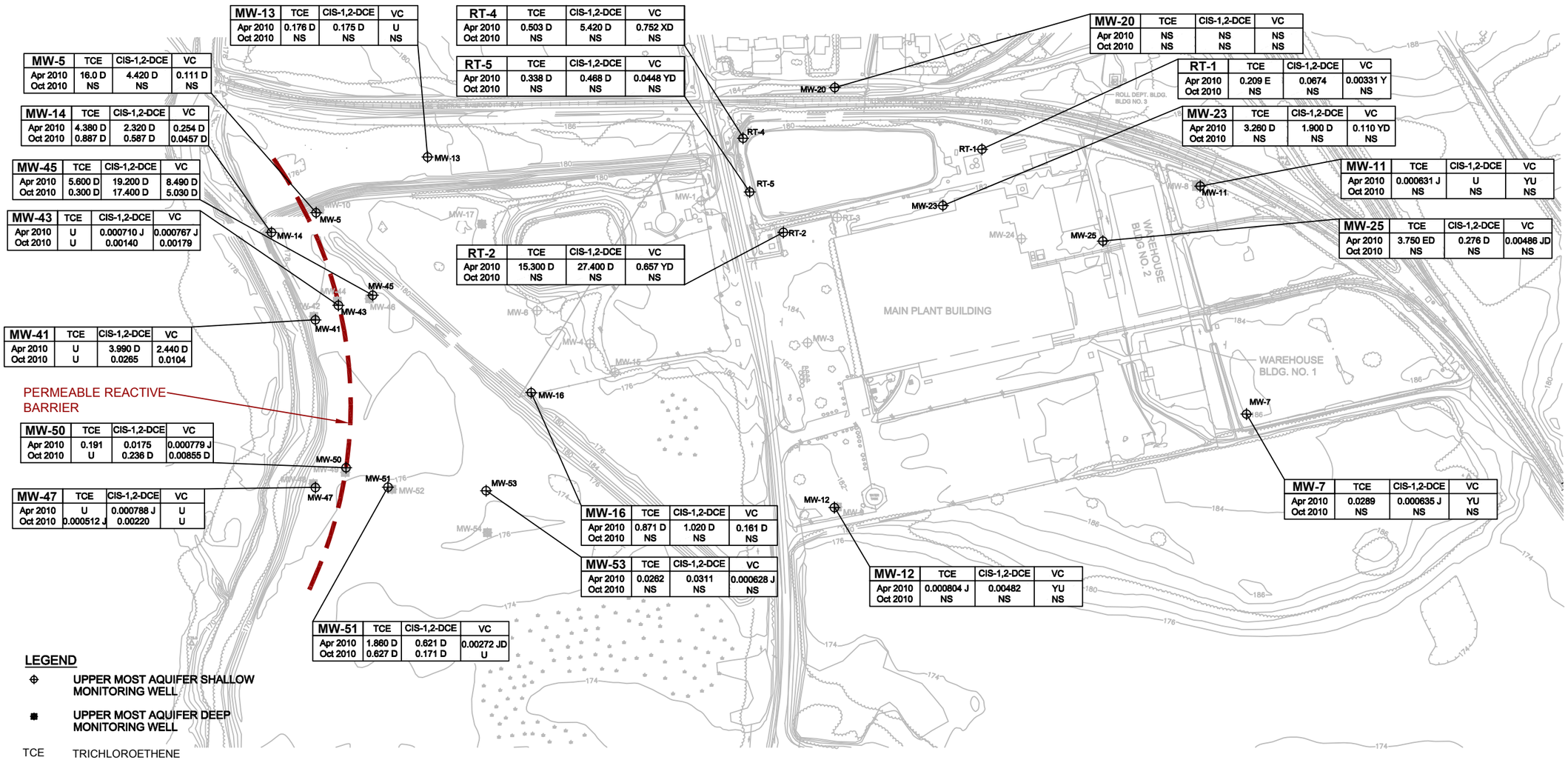

MW-13	TCE	CIS-1,2-DCE	VC
Apr 2010	0.176 D	0.175 D	U
Oct 2010	NS	NS	NS

RT-4	TCE	CIS-1,2-DCE	VC
Apr 2010	0.503 D	5.420 D	0.752 XD
Oct 2010	NS	NS	NS

MW-20	TCE	CIS-1,2-DCE	VC
Apr 2010	NS	NS	NS
Oct 2010	NS	NS	NS

RT-5	TCE	CIS-1,2-DCE	VC
Apr 2010	0.338 D	0.468 D	0.0448 YD
Oct 2010	NS	NS	NS

RT-1	TCE	CIS-1,2-DCE	VC
Apr 2010	0.209 E	0.0674	0.00331 Y
Oct 2010	NS	NS	NS

MW-5	TCE	CIS-1,2-DCE	VC
Apr 2010	16.0 D	4.420 D	0.111 D
Oct 2010	NS	NS	NS

MW-23	TCE	CIS-1,2-DCE	VC
Apr 2010	3.260 D	1.900 D	0.110 YD
Oct 2010	NS	NS	NS

MW-14	TCE	CIS-1,2-DCE	VC
Apr 2010	4.380 D	2.320 D	0.254 D
Oct 2010	0.887 D	0.587 D	0.0457 D

MW-11	TCE	CIS-1,2-DCE	VC
Apr 2010	0.000631 J	U	YU
Oct 2010	NS	NS	NS

MW-45	TCE	CIS-1,2-DCE	VC
Apr 2010	5.600 D	19.200 D	8.490 D
Oct 2010	0.300 D	17.400 D	5.030 D

MW-43	TCE	CIS-1,2-DCE	VC
Apr 2010	U	0.000710 J	0.000767 J
Oct 2010	U	0.00140	0.00179

MW-25	TCE	CIS-1,2-DCE	VC
Apr 2010	3.750 ED	0.276 D	0.00486 JD
Oct 2010	NS	NS	NS

RT-2	TCE	CIS-1,2-DCE	VC
Apr 2010	15.300 D	27.400 D	0.657 YD
Oct 2010	NS	NS	NS

MW-41	TCE	CIS-1,2-DCE	VC
Apr 2010	U	3.990 D	2.440 D
Oct 2010	U	0.0265	0.0104

MW-50	TCE	CIS-1,2-DCE	VC
Apr 2010	0.191	0.0175	0.000779 J
Oct 2010	U	0.236 D	0.00855 D

MW-7	TCE	CIS-1,2-DCE	VC
Apr 2010	0.0289	0.000635 J	YU
Oct 2010	NS	NS	NS

MW-47	TCE	CIS-1,2-DCE	VC
Apr 2010	U	0.000788 J	U
Oct 2010	0.000512 J	0.00220	U

MW-16	TCE	CIS-1,2-DCE	VC
Apr 2010	0.871 D	1.020 D	0.161 D
Oct 2010	NS	NS	NS

MW-53	TCE	CIS-1,2-DCE	VC
Apr 2010	0.0262	0.0311	0.000628 J
Oct 2010	NS	NS	NS

MW-12	TCE	CIS-1,2-DCE	VC
Apr 2010	0.000804 J	0.00482	YU
Oct 2010	NS	NS	NS

MW-51	TCE	CIS-1,2-DCE	VC
Apr 2010	1.860 D	0.621 D	0.00272 JD
Oct 2010	0.627 D	0.171 D	U

LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL

TCE	TRICHLOROETHENE
CIS-1,2-DCE	CIS-1,2-DICHLOROETHENE
VC	VINYL CHLORIDE
NS	NOT SAMPLED
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN
Y	POTENTIAL NEGATIVE BIAS
E	EXCEEDS CONC. LEVEL FOR THE STANDARD CURVE

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

300 0 300 600
SCALE FEET

FIGURE 3-5

SPRING AND FALL 2010
VOC CONCENTRATIONS
UPPER MOST AQUIFER
(SHALLOW WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466.007 08/11

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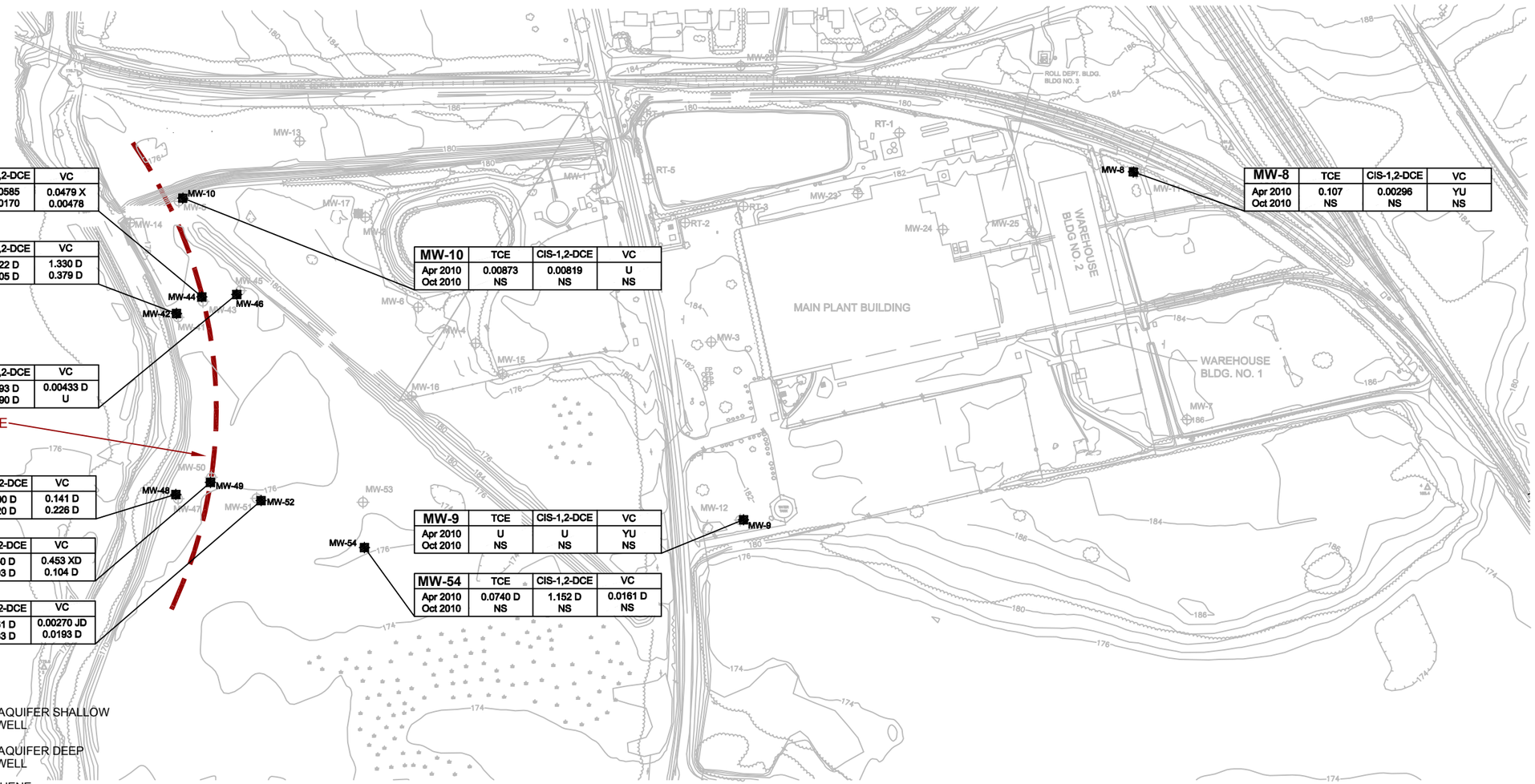
Nov 07, 2011 - 1:09pm bruhberg



MW-44	TCE	CIS-1,2-DCE	VC
Apr 2010	U	0.00585	0.0479 X
Oct 2010	U	0.00170	0.00478

MW-42	TCE	CIS-1,2-DCE	VC
Apr 2010	0.00550 JD	0.522 D	1.330 D
Oct 2010	0.00617 JD	0.305 D	0.379 D

MW-10	TCE	CIS-1,2-DCE	VC
Apr 2010	0.00873	0.00819	U
Oct 2010	NS	NS	NS

MW-8	TCE	CIS-1,2-DCE	VC
Apr 2010	0.107	0.00296	YU
Oct 2010	NS	NS	NS

MW-46	TCE	CIS-1,2-DCE	VC
Apr 2010	1.380 D	0.893 D	0.00433 D
Oct 2010	7.170 D	4.390 D	U

MW-48	TCE	CIS-1,2-DCE	VC
Apr 2010	0.514 D	2.100 D	0.141 D
Oct 2010	0.121 D	1.020 D	0.226 D

MW-49	TCE	CIS-1,2-DCE	VC
Apr 2010	U	1.150 D	0.453 XD
Oct 2010	U	0.503 D	0.104 D

MW-52	TCE	CIS-1,2-DCE	VC
Apr 2010	1.080 D	0.461 D	0.00270 JD
Oct 2010	0.533 D	0.283 D	0.0193 D

MW-9	TCE	CIS-1,2-DCE	VC
Apr 2010	U	U	YU
Oct 2010	NS	NS	NS

MW-54	TCE	CIS-1,2-DCE	VC
Apr 2010	0.0740 D	1.152 D	0.0161 D
Oct 2010	NS	NS	NS

LEGEND

- ⊕ UPPER MOST AQUIFER SHALLOW MONITORING WELL
- ■ UPPER MOST AQUIFER DEEP MONITORING WELL
- TCE TRICHLOROETHENE
- CIS-1,2-DCE CIS-1,2-DICHLOROETHENE
- VC VINYL CHLORIDE
- NS NOT SAMPLED
- NA NOT AVAILABLE OR NOT ANALYZED
- U BELOW LAB DETECTION LIMIT
- J RESULTS WERE ESTIMATED
- D RESULTS FROM DILUTED SAMPLE RUN
- X POTENTIAL POSITIVE BIAS
- Y POTENTIAL NEGATIVE BIAS

300 0 300 600
SCALE FEET

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-6

SPRING AND FALL 2010
VOC CONCENTRATIONS
UPPER MOST AQUIFER
(DEEP WELLS)

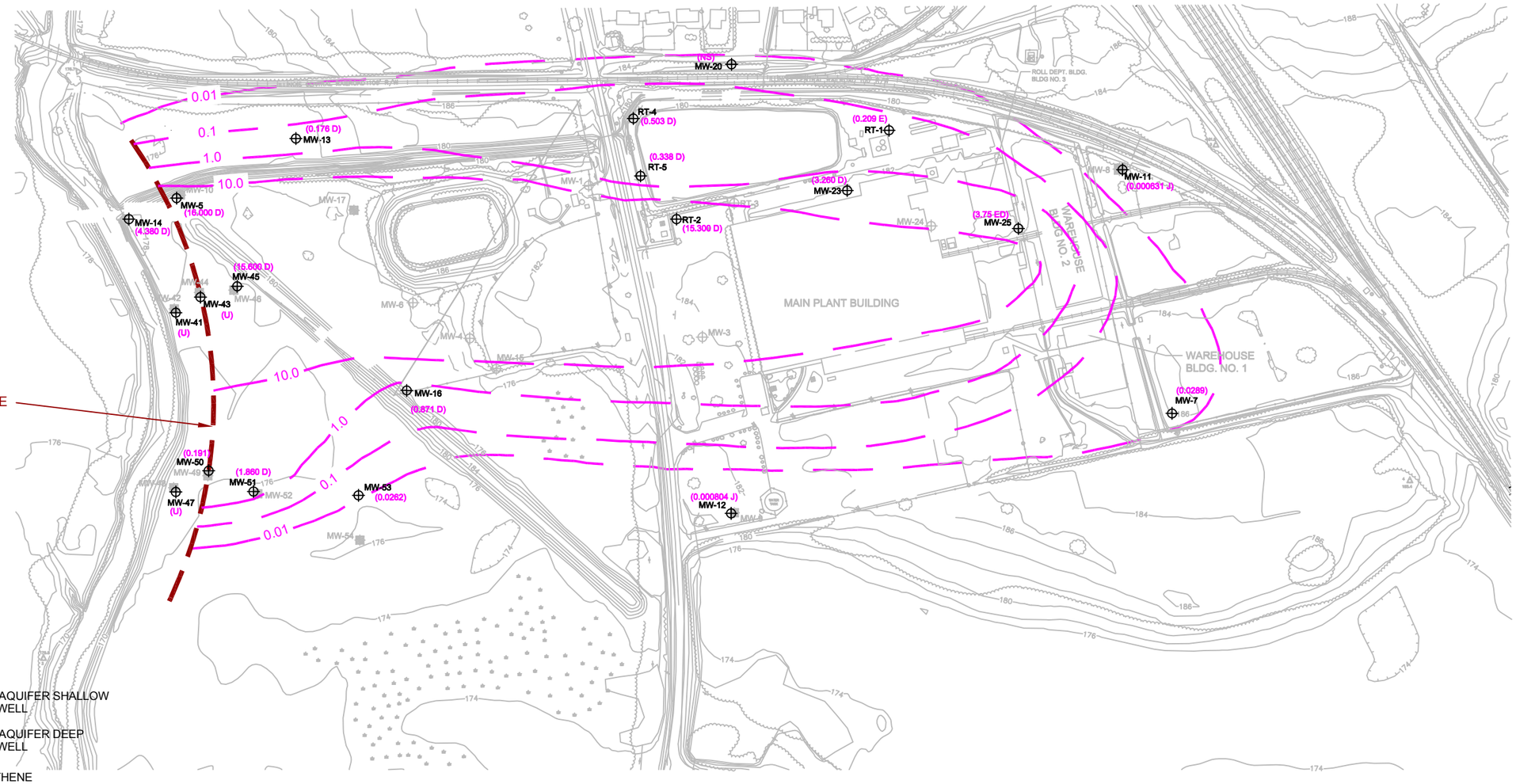
ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466.007 08/11

BROWN AND CALDWELL Columbus, Ohio

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 9.dwg

Nov 07, 2011 - 1:11pm bruhberg



LEGEND

⌖	UPPER MOST AQUIFER SHALLOW MONITORING WELL
■	UPPER MOST AQUIFER DEEP MONITORING WELL
TCE	TRICHLOROETHENE
NS	NOT SAMPLED
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN
E	EXCEEDS CONC. LEVEL FOR THE STANDARD CURVE

(0.12) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-7

SPRING 2010
TCE CONCENTRATIONS
UPPER MOST AQUIFER
(SHALLOW WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466.007 08/11

BROWN AND CALDWELL Columbus, Ohio

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 10.dwg

Nov 07, 2011 - 11:00am bruhberg

LEGEND

⊕	UPPER MOST AQUIFER SHALLOW MONITORING WELL
■	UPPER MOST AQUIFER DEEP MONITORING WELL
CIS-1,2-DCE	CIS-1,2 DICHLOROETHENE
NS	NOT SAMPLED
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN
E	EXCEEDS CONC. LEVEL FOR THE STANDARD CURVE
B	THE CONSTITUENT WAS ALSO DETECTED IN A BLANK

(0.12) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-8

SPRING 2010
CIS-1,2-DCE CONCENTRATIONS
UPPER MOST AQUIFER
(SHALLOW WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

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P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 11.dwg

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LEGEND

⊕	UPPER MOST AQUIFER SHALLOW MONITORING WELL
■	UPPER MOST AQUIFER DEEP MONITORING WELL
VC	VINYL CHLORIDE
NS	NOT SAMPLED
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN
X	POTENTIAL POSITIVE BIAS
Y	POTENTIAL NEGATIVE BIAS

(0.12) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-9

SPRING 2010
VINYL CHLORIDE CONCENTRATIONS
UPPER MOST AQUIFER
(SHALLOW WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

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P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 12.dwg

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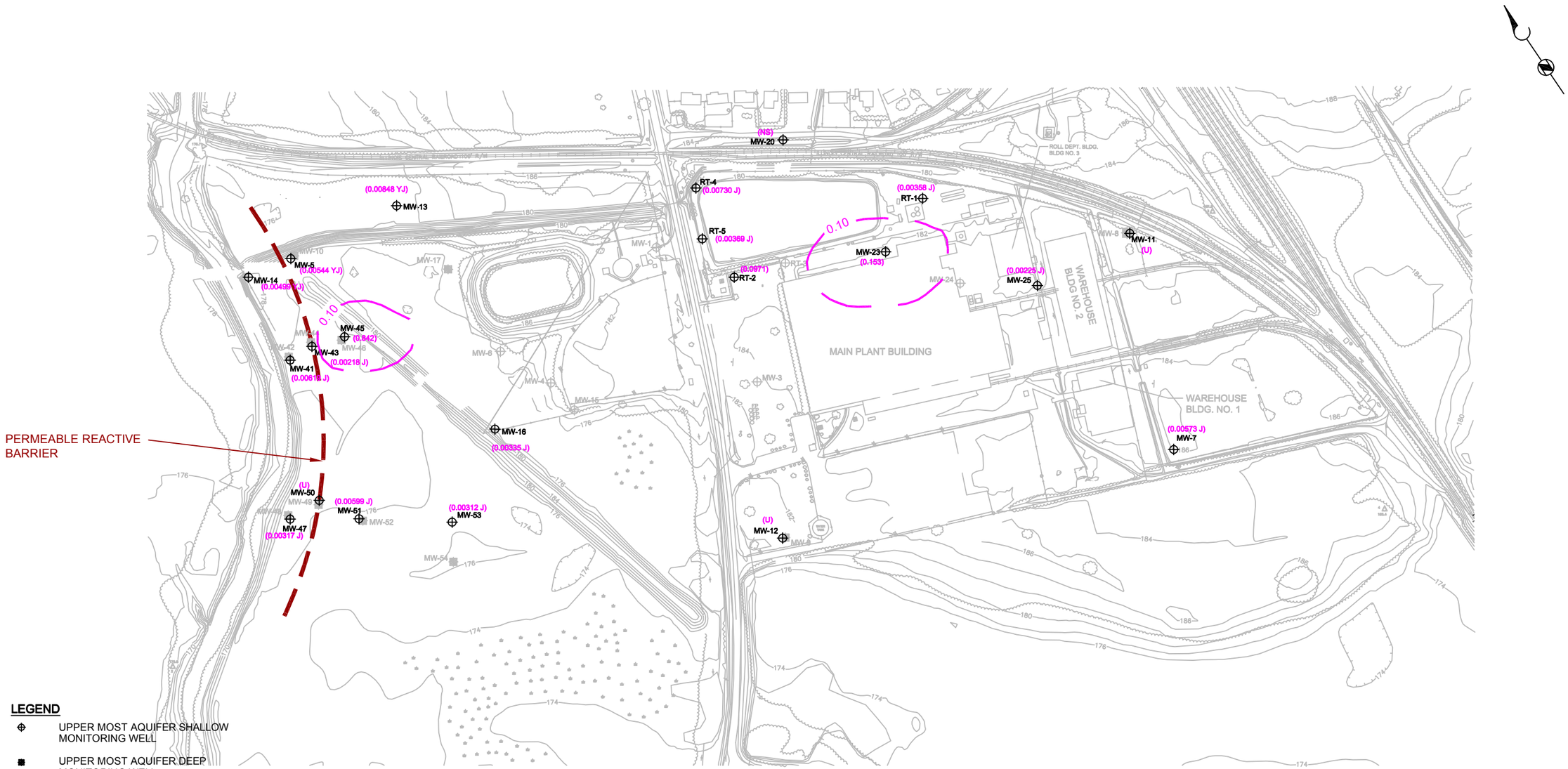

LEGEND

⌖	UPPER MOST AQUIFER SHALLOW MONITORING WELL
■	UPPER MOST AQUIFER DEEP MONITORING WELL
NS	NOT SAMPLED
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN
Y	POTENTIAL NEGATIVE BIAS

(0.0078) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-10

SPRING 2010
TOTAL CHROMIUM CONCENTRATIONS
UPPER MOST AQUIFER
(SHALLOW WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

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P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 13.dwg

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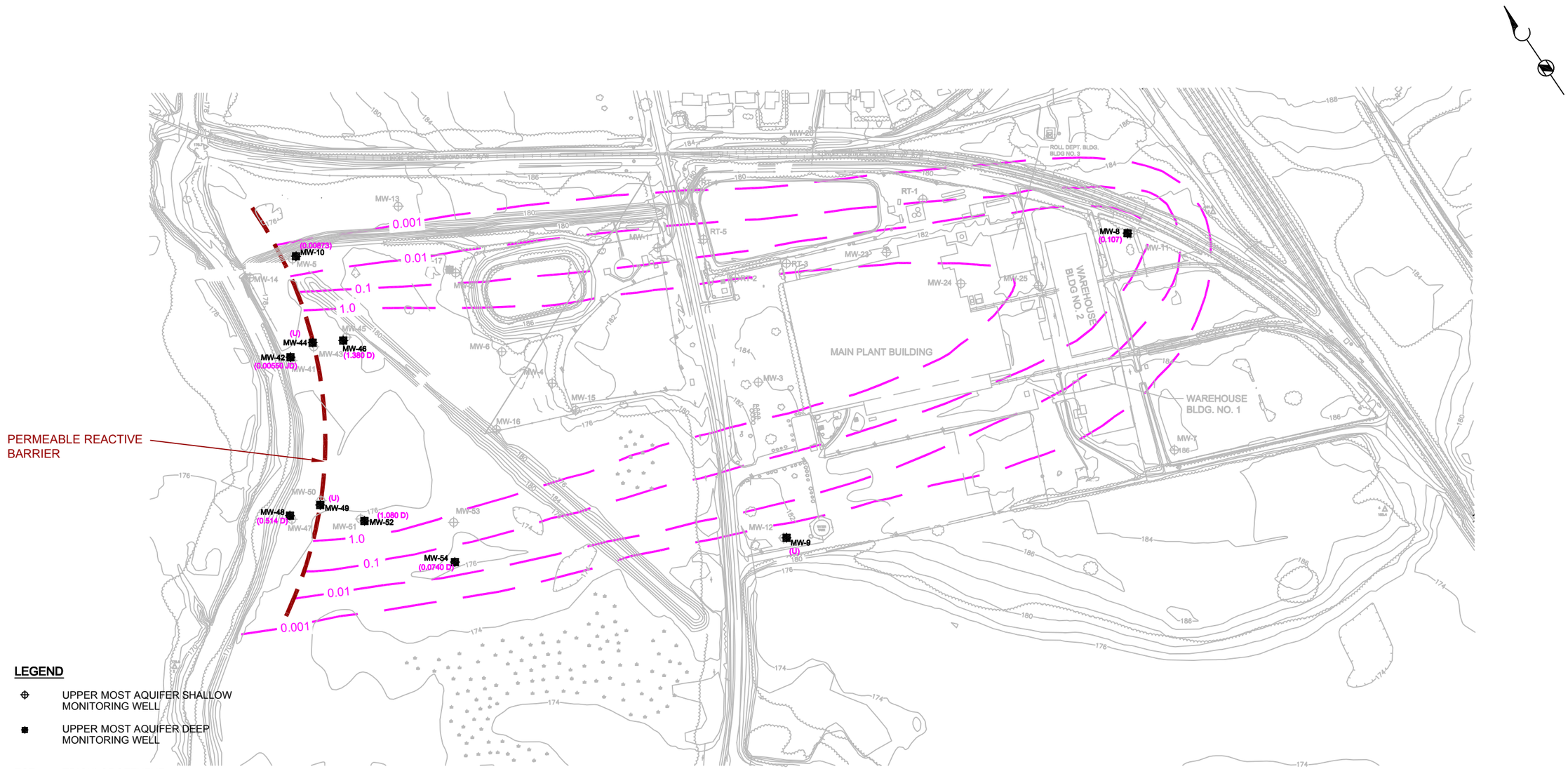

LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL

TCE	TRICHLOROETHENE
NS	NOT SAMPLED
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN

(0.12) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-11

SPRING 2010
TCE CONCENTRATIONS
UPPER MOST AQUIFER
(DEEP WELLS)

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P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 14.dwg

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LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL

CIS-1,2-DCE CIS-1,2-DICHLOROETHENE

U BELOW LAB DETECTION LIMIT

J RESULTS WERE ESTIMATED

D RESULTS FROM DILUTED SAMPLE RUN

(0.12) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-12

SPRING 2010
CIS-1,2-DCE CONCENTRATIONS
UPPER MOST AQUIFER
(DEEP WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

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LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL

VC	VINYL CHLORIDE
NA	NOT AVAILABLE OR NOT ANALYZED
U	BELOW LAB DETECTION LIMIT
J	RESULTS WERE ESTIMATED
D	RESULTS FROM DILUTED SAMPLE RUN
X	POTENTIAL POSITIVE BIAS
Y	POTENTIAL NEGATIVE BIAS

(0.12) REPORTED CONCENTRATION (mg/L)

1.0 CONCENTRATION CONTOUR (mg/L)
CONTOUR INTERVAL = LOGORITHMIC
DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-13

SPRING 2010
VINYL CHLORIDE CONCENTRATIONS
UPPER MOST AQUIFER
(DEEP WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

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P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 16.dwg

Nov 07, 2011 - 12:50pm bruhberg

NO CHROMIUM CONTOURS ARE SHOWN DUE TO THE LACK OF CHROMIUM DETECTIONS ABOVE THE MCL OF 0.100 MG/L FOR THIS SAMPLING EVENT

LEGEND

- UPPER MOST AQUIFER SHALLOW MONITORING WELL
- UPPER MOST AQUIFER DEEP MONITORING WELL
- NA — NOT AVAILABLE OR NOT ANALYZED
- U — BELOW LAB DETECTION LIMIT
- J — RESULTS WERE ESTIMATED
- D — RESULTS FROM DILUTED SAMPLE RUN
- Y — POTENTIAL NEGATIVE BIAS
- (0.12) — REPORTED CONCENTRATION (mg/L)
- 1.0 — CONCENTRATION CONTOUR (mg/L); CONTOUR INTERVAL = LOGORITHMIC; DASHED WHERE INFERRED

300 0 300 600
SCALE FEET

ALL RESULTS REPORTED AS MILLIGRAMS PER LITER (mg/L).

SOURCE: MAP PREPARED BY ALMON ASSOCIATES, 1993 (UPDATED 2005). WELL LOCATIONS SHOWN ARE APPROXIMATE.

FIGURE 3-14

SPRING 2010
TOTAL CHROMIUM CONCENTRATIONS
UPPER MOST AQUIFER
(DEEP WELLS)

ARVINMERITOR, INC
GRENADA, MISSISSIPPI

138466.007 08/11

BROWN AND CALDWELL Columbus, Ohio

P:\BC_Cleveland\GIS\Grenada_MS\CY2010\Drawings\Figure 17.dwg

Tables

TABLE 1-1
SITE-WIDE MONITORING LOCATIONS AND SCHEDULE

Grenada Manufacturing Site
Grenada, Mississippi

Matrix	Sample Location/ID	Monitoring Program(s)	Zone Monitored	Monitoring Frequency				Analyte List							
											Metals				
				Semi-Annual	Annual	Biennial	Quadrennial	VOCs*		SVOCs*	Pb	As	Cr	Hex-Cr	Se
								List 1	List 2						
Groundwater	MW-1	Corrective Measures	Shallow				X	X			X	X	X	X	
	MW-3	Corrective Measures	Shallow				X	X			X	X	X	X	
	MW-4	Corrective Measures	Shallow				X	X			X	X	X	X	
	MW-5	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-6	Corrective Measures	Shallow				X	X			X	X	X	X	
	MW-7	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-8	Corrective Measures	Deep			X		X			X	X	X	X	
	MW-9	Corrective Measures	Deep			X		X			X	X	X	X	
	MW-10	Corrective Measures	Deep			X		X			X	X	X	X	
	MW-11	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-12	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-13	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-14	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-15	Corrective Measures	Shallow				X	X			X	X	X	X	
	MW-16	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-17	Corrective Measures	Deep				X	X			X	X	X	X	
	MW-20	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-23	Corrective Measures, EQ Lagoon Post-Closure	Shallow		X	X		X	X	X	X, X	X, X	X, X	X, X	X
	MW-25	Corrective Measures	Shallow			X		X			X	X	X	X	
	RT-1	Corrective Measures	Shallow			X		X			X	X	X	X	
	RT-2	Corrective Measures, EQ Lagoon Post-Closure	Shallow		X	X		X	X	X	X, X	X, X	X, X	X, X	X
	RT-3	Corrective Measures	Shallow				X	X			X	X	X	X	
	RT-4	EQ Lagoon Post-Closure	Shallow		X			X	X	X	X, X	X, X	X, X	X, X	X
	RT-5	Corrective Measures, EQ Lagoon Post-Closure	Shallow		X	X		X	X	X	X, X	X, X	X, X	X, X	X
	MW-41	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-42	Corrective Measures, PRB	Deep	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-43	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-44	Corrective Measures, PRB	Deep	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-45	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-46	Corrective Measures, PRB	Deep	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-47	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-48	Corrective Measures, PRB	Deep	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-49	Corrective Measures, PRB	Deep	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-50	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-51	Corrective Measures, PRB	Shallow	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-52	Corrective Measures, PRB	Deep	X		X		X, X			X, X	X, X	X, X	X, X	
	MW-53	Corrective Measures	Shallow			X		X			X	X	X	X	
	MW-54	Corrective Measures	Deep			X		X			X	X	X	X	
Surface Water	SW-22	Corrective Measures	Near Shore (East Bank)	X				X			X	X	X	X	
	SW-12	Corrective Measures	Near Shore (East Bank)	X				X			X	X	X	X	
	SW-19	Corrective Measures	Near Shore (East Bank)	X				X			X	X	X	X	
	SW-9	Corrective Measures	Near Shore (East Bank)	X				X			X	X	X	X	
	SW-17	Corrective Measures	Near Shore (East Bank)	X				X			X	X	X	X	
Sediment	SD-4	Corrective Measures	Near Shore (East Bank)			X		X			X	X	X	X	
	SD-12	Corrective Measures	Near Shore (East Bank)			X		X			X	X	X	X	
	SD-7	Corrective Measures	Near Shore (East Bank)			X		X			X	X	X	X	
	SD-9	Corrective Measures	Near Shore (East Bank)			X		X			X	X	X	X	
	SD-17	Corrective Measures	Near Shore (East Bank)			X		X			X	X	X	X	

* List 1 VOCs are listed in Table 2, while List 2 VOCs and SVOCs are listed in Table 3.

TABLE 2-1

LIST OF CONSTITUENTS FOR CORRECTIVE MEASURES MONITORING (GROUNDWATER, SURFACE WATER AND SEDIMENT)

Grenada Manufacturing
Grenada, Mississippi

Constituents of Concern
VOCs
Trichloroethene (TCE)
cis-1,2-Dichloroethene (Cis-1,2-DCE)
Vinyl Chloride (VC)
Benzene
1,2-Dichloroethane
1,1,-Dichloroethene
1,1,2-Trichloroethane
Tetrachloroethene (PCE)
Toluene
METALS
Arsenic
Chromium (hexavalent and total)
Lead
FIELD PARAMETERS[a]
Temperature
Dissolved Oxygen
pH
Oxidation-Reduction Potential (ORP)
Specific Conductivity

a – These parameters are measured only for groundwater and surface water samples.

TABLE 2-2

LIST OF CONSTITUENTS FOR POST-CLOSURE MONITORING (GROUNDWATER)

Grenada Manufacturing
Grenada, Mississippi

Constituents of Concern

VOCs

Trichloroethene (TCE)
cis-1,2-Dichloroethene (Cis-1,2-DCE)
Vinyl Chloride (VC)
Benzene
1,2-Dichloroethane
1,1-Dichloroethene
1,1,2-Trichloroethane
Tetrachloroethene (PCE)
Toluene
Chloroethane
Methylene chloride
Acetone
Carbon Disulfide
1,1-Dichloroethane
Trans-1,2-Dichloroethene
1,1,1-Trichloroethane
1,2-Dichloropropane
Ethlbenzene
Xylenes (total)

SVOCs

bis(2-Ethylhexyl)phthalate
1,2,4-Trichlorobenzene
Naphthalene
2-Methylnaphthalene
Pentachlorophenol
1,2,4,5-Tetrchlorobenzene

METALS

Arsenic
Chromium (total and hexavalent)
Lead
Selenium

FIELD PARAMETERS

Temperature
Dissolved Oxygen
pH
Oxidation-Reduction Potential (ORP)
Specific Conductivity

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-1	2457977.73	1566416.87	Upper	183.70	183.45	12/19/1991	16.50	11.74	171.71
						1/22/1993	16.50	12.33	171.12
						2/24/1993	16.50	12.11	171.34
						5/25/1993	16.50	11.62	171.83
						7/13/1993	16.50	12.05	171.40
						11/30/1993	16.50	13.09	170.36
						10/5/1998	16.50	12.66	170.79
						10/10/2000	16.50	14.26	169.19
						10/26/2000	16.50	14.34	169.11
						12/21/2000	16.50	NA	NA
						11/12/2003	16.50	12.29	171.16
						3/20/2006	16.50	10.90	172.55
						4/25/2008	16.50	11.76	171.69
						10/26/2009	16.50	10.92	172.53
						4/6/2010	**16.50**	**10.03**	**173.42**
						10/14/2010	**16.50**	**12.74**	**170.71**
MW-2	2457463.00	1566671.86	Upper	177.10	179.87	12/19/1991	20.55	10.60	169.27
						1/22/1993	20.55	11.46	168.41
						2/24/1993	20.55	11.70	168.17
						5/25/1993	20.55	11.36	168.51
						7/13/1993	20.55	12.05	167.82
						11/30/1993	20.55	12.65	167.22
						10/5/1998	20.55	12.96	166.91
						10/10/2000	20.55	NAPL	NM
						10/26/2000	20.55	NAPL	NM
						12/21/2000	20.55	NAPL	NM
						11/12/2003	20.55	NAPL	NM
						3/20/2006	20.55	9.56	170.31
						4/25/2008	20.55	NM	NM
						10/26/2009	20.55	NAPL	NM
						4/6/2010	**20.55**	**9.87**	**170.00**
MW-3	2458006.14	1565944.07	Upper	183.80	183.46	12/19/1991	11.10	11.27	172.19
						1/22/1993	11.10	11.85	171.61
						2/24/1993	11.10	11.48	171.98
						5/25/1993	11.10	10.70	172.76
						7/13/1993	11.10	11.39	172.07
						11/30/1993	11.10	NM	NM
						10/5/1998	11.10	11.10	172.36
						10/10/2000	11.10	DRY	DRY
						10/26/2000	11.10	DRY	DRY
						12/21/2000	11.10	DRY	DRY
						11/12/2003	11.10	DRY	DRY
						3/20/2006	11.10	10.56	172.90
						4/25/2008	11.10	DRY	DRY
						10/26/2009	11.10	10.49	172.97
						4/6/2010	**11.10**	**9.39**	**174.07**
						10/12/2010	**11.10**	**DRY**	**DRY**
MW-4	2457518.88	1566261.78	Upper	180.80	182.90	12/19/1991	19.78	12.77	170.13
						1/22/1993	19.78	13.60	169.30
						2/24/1993	19.78	13.85	169.05
						5/25/1993	19.78	13.61	169.29
						7/13/1993	19.78	14.53	168.37
						11/30/1993	19.78	15.34	167.56
						10/5/1998	19.78	15.60	167.30
						10/10/2000	19.78	16.38	166.52
						10/26/2000	19.78	16.51	166.39
						12/21/2000	19.78	NA	NA
						11/12/2003	19.78	14.78	168.12
						3/20/2006	19.78	11.69	171.21
						4/25/2008	19.78	13.61	169.29
						10/26/2009	19.78	12.68	170.22
						4/6/2010	**19.78**	**12.21**	**170.69**
						10/12/2010	**19.78**	**15.18**	**167.72**

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-5	2457100.33	1566957.81	Upper	178.50	180.68	12/19/1991	22.35	12.80	167.88
						1/22/1993	22.35	13.81	166.87
						2/24/1993	22.35	14.15	166.53
						5/25/1993	22.35	13.75	166.93
						7/13/1993	22.35	14.27	166.41
						11/30/1993	22.35	14.70	165.98
						10/5/1998	22.35	15.18	165.50
						10/10/2000	22.35	15.22	165.46
						10/26/2000	22.35	15.25	165.43
						12/21/2000	22.35	NA	NA
						11/11/2003	22.35	14.43	166.25
						5/12/2004	22.04	14.58	166.10
						3/29/2005	22.35	13.33	167.35
						11/7/2005	22.35	14.09	166.59
						3/20/2006	22.35	11.47	169.21
						6/6/2006	22.35	13.53	167.15
						10/23/2006	22.35	14.13	166.55
						4/23/2007	22.35	13.69	166.99
						10/22/2007	22.35	14.16	166.52
						4/25/2008	22.35	13.38	167.30
						9/23/2008	22.35	14.31	166.37
						10/26/2009	22.35	13.83	166.85
						4/6/2010	**22.35**	**12.29**	**168.39**
						10/12/2010	**22.35**	**14.05**	**166.63**
MW-6	2457449.47	1566414.16	Upper	176.30	178.66	12/19/1991	18.66	8.81	169.85
						1/22/1993	18.66	9.71	168.95
						2/24/1993	18.66	9.94	168.72
						5/25/1993	18.66	9.71	168.95
						7/13/1993	18.66	10.58	168.08
						11/30/1993	18.66	11.32	167.34
						10/5/1998	18.66	11.54	167.12
						10/10/2000	18.66	14.09	164.57
						10/26/2000	18.66	12.36	166.30
						12/21/2000	18.66	NA	NA
						11/12/2003	18.66	10.76	167.90
						3/20/2006	18.66	7.56	171.10
						4/25/2008	18.66	9.55	169.11
						10/26/2009	18.66	8.75	169.91
						4/6/2010	**18.66**	**8.26**	**170.40**
						10/12/2010	**18.66**	**11.05**	**167.61**
MW-7	2458880.98	1565137.53	Upper	185.40	185.13	12/19/1991	16.20	11.04	174.09
						1/22/1993	16.20	11.58	173.55
						2/24/1993	16.20	11.05	174.08
						5/25/1993	16.20	10.31	174.82
						7/13/1993	16.20	11.24	173.89
						11/30/1993	16.20	12.71	172.42
						10/10/2000	16.20	14.19	170.94
						10/26/2000	16.20	14.30	170.83
						12/21/2000	16.20	NA	NA
						11/13/2003	16.20	11.26	173.87
						3/20/2006	16.20	10.39	174.74
						4/25/2008	16.20	11.35	173.78
						10/27/2009	16.20	10.66	174.47
						4/6/2010	**16.20**	**9.08**	**176.05**
						10/12/2010	**16.20**	**13.01**	**172.12**
MW-8	2459107.57	1565720.98	Lower	180.30	182.86	12/19/1991	44.00	9.15	173.71
						1/22/1993	44.00	9.75	173.11
						2/24/1993	44.00	9.50	173.36
						5/25/1993	44.00	8.72	174.14
						7/13/1993	44.00	9.35	173.51
						11/30/1993	44.00	10.50	172.36
						10/10/2000	44.00	11.93	170.93
						10/26/2000	44.00	12.02	170.84
						12/21/2000	44.00	NA	NA
						11/13/2003	50.00	9.61	173.25
						3/20/2006	50.00	8.69	174.17
						4/25/2008	50.00	9.71	173.15
						10/27/2009	50.00	8.77	174.09
						4/6/2010	**50.00**	**7.52**	**175.34**
						10/12/2010	**50.00**	**10.37**	**172.49**

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-9	2457830.90	1565534.02	Lower	181.10	180.74	12/19/1991	75.00	4.09	176.65
						1/22/1993	75.00	2.81	177.93
						2/24/1993	75.00	2.73	178.01
						5/25/1993	75.00	2.08	178.66
						7/13/1993	75.00	6.01	174.73
						11/30/1993	75.00	3.09	177.65
						10/10/2000	75.00	NA	NA
						10/26/2000	75.00	NA	NA
						12/21/2000	75.00	NA	NA
						11/12/2003	75.00	2.20	178.54
						3/20/2006	75.00	1.39	179.35
						4/25/2008	75.00	0.50	180.24
Note: Well was observed to be artesian						10/27/2009	75.00	NA	NA
Note: Well was observed to be artesian						**4/6/2010**	**75.00**	**-0.65**	**181.39**
						10/12/2010	**75.00**	**2.00**	**178.74**
MW-10	2457112.95	1566958.82	Lower	178.00	180.80	12/19/1991	50.15	12.72	168.08
						1/22/1993	50.15	13.78	167.02
						2/24/1993	50.15	14.17	166.63
						5/25/1993	50.15	13.81	166.99
						7/13/1993	50.15	14.21	166.59
						11/30/1993	50.15	14.75	166.05
						10/5/1998	50.15	15.18	165.62
						10/10/2000	50.15	15.25	165.55
						10/26/2000	50.15	15.28	165.52
						12/21/2000	50.15	NA	NA
						11/11/2003	50.15	14.39	166.41
						2/19/2004	49.80	14.62	166.18
						5/12/2004	49.80	15.43	165.37
						3/29/2005	50.05	14.06	166.74
						11/7/2005	50.05	15.01	165.79
						3/20/2006	50.05	12.21	168.59
						6/6/2006	50.05	14.62	166.18
						10/23/2006	50.05	15.12	165.68
						4/23/2007	20.05	14.80	166.00
						10/22/2007	20.05	15.08	165.72
						4/25/2008	50.05	14.52	166.28
						9/24/2008	50.05	15.27	165.53
						10/26/2009	50.05	14.09	166.71
						4/6/2010	**50.05**	**13.58**	**167.22**
						10/12/2010	**50.05**	**14.92**	**165.88**
MW-11	2459113.01	1565715.12	Upper	180.30	182.59	12/19/1991	20.85	9.00	173.59
						1/22/1993	20.85	9.60	172.99
						2/24/1993	20.85	9.27	173.32
						5/25/1993	20.85	8.51	174.08
						7/13/1993	20.85	9.21	173.38
						11/30/1993	20.85	10.50	172.09
						10/10/2000	20.85	11.90	170.69
						10/26/2000	20.85	12.00	170.59
						12/21/2000	20.85	NA	NA
						11/13/2003	20.85	9.56	173.03
						3/20/2006	20.85	8.48	174.11
						4/25/2008	20.85	9.42	173.17
						10/27/2009	20.85	8.51	174.08
						4/6/2010	**20.85**	**7.27**	**175.32**
						10/12/2010	**20.85**	**10.38**	**172.21**
MW-12	2457823.87	1565537.85	Upper	181.00	180.67	12/19/1991	22.45	8.17	172.50
						1/22/1993	22.45	8.66	172.01
						2/24/1993	22.45	8.36	172.31
						5/25/1993	22.45	7.58	173.09
						7/13/1993	22.45	8.70	171.97
						11/30/1993	22.45	10.32	170.35
						10/5/1998	22.45	8.90	171.77
						10/10/2000	22.45	11.85	168.82
						10/26/2000	22.45	11.98	168.69
						12/21/2000	22.45	NA	NA
						11/12/2003	22.45	9.12	171.55
						3/20/2006	22.45	7.37	173.30
						4/25/2008	22.45	8.53	172.14
						4/6/2010	**22.45**	**6.62**	**174.05**
						10/12/2010	**22.45**	**10.30**	**170.37**

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-13	2457431.24	1566917.82	Upper	177.40	180.12	12/19/1991	23.96	11.10	169.02
						1/22/1993	23.96	11.91	168.21
						2/24/1993	23.96	12.09	168.03
						5/25/1993	23.96	11.72	168.40
						7/13/1993	23.96	12.26	167.86
						11/30/1993	23.96	12.72	167.40
						10/10/2000	23.96	13.50	166.62
						10/26/2000	23.96	13.57	166.55
						12/21/2000	23.96	NA	NA
						11/12/2003	23.96	12.35	167.77
						5/12/2004	23.90	12.20	167.92
						3/20/2006	23.90	10.20	169.92
						4/23/2007	23.90	11.93	168.19
						10/23/2007	23.90	11.90	168.22
						4/25/2008	23.90	11.53	168.59
						4/6/2010	**23.90**	**10.23**	**169.89**
						10/12/2010	**23.90**	**12.32**	**167.80**
MW-14	2456971.93	1566979.62	Upper	178.80	181.44	12/19/1991	27.27	14.26	167.18
						1/22/1993	27.27	15.50	165.94
						2/24/1993	27.27	15.93	165.51
						5/25/1993	27.27	15.42	166.02
						7/13/1993	27.27	15.93	165.51
						11/30/1993	27.27	16.27	165.17
						10/5/1998	27.27	16.88	164.56
						10/10/2000	27.27	16.64	164.80
						10/26/2000	27.27	16.64	164.80
						12/21/2000	27.27	NA	NA
						11/11/2003	27.27	16.03	165.41
						2/19/2004	26.99	16.48	164.96
						5/12/2004	26.99	17.40	164.04
						3/29/2005	27.17	16.22	165.22
						11/9/2005	27.17	16.98	164.46
						3/20/2006	27.17	14.69	166.75
						6/6/2006	27.17	NA	NA
						10/23/2006	27.17	17.19	164.25
						4/23/2007	27.17	17.01	164.43
						10/22/2007	27.17	17.17	164.27
						4/25/2008	27.17	16.98	164.46
						9/23/2008	27.17	17.53	163.91
						5/20/2009	27.17	16.37	165.07
						10/26/2009	27.17	16.85	164.59
						4/6/2010	**27.17**	**16.42**	**165.02**
Note: Field Data Sheet has 14.12-feet as DTW and the correct DTW is 17.12-feet						**10/12/2010**	**27.17**	**17.12**	**164.32**
MW-15	2457532.40	1566161.73	Upper	180.90	183.67	12/19/1991	23.62	13.08	170.59
						1/22/1993	23.62	13.90	169.77
						2/24/1993	23.62	14.16	169.51
						5/25/1993	23.62	13.93	169.74
						7/13/1993	23.62	15.02	168.65
						11/30/1993	23.62	15.93	167.74
						10/5/1998	23.62	16.08	167.59
						10/10/2000	23.62	17.00	166.67
						10/26/2000	23.62	17.11	166.56
						12/21/2000	23.62	NA	NA
						11/12/2003	23.62	15.19	168.48
						2/19/2004	23.34	13.08	170.59
						5/12/2004	23.34	14.46	169.21
						3/20/2006	23.34	11.09	172.58
						4/25/2008	23.34	13.98	169.69
						10/26/2009	23.34	13.09	170.58
						4/6/2010	**23.34**	**12.6**	**171.07**
						10/12/2010	**23.34**	**15.79**	**167.88**

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-16	2457315.87	1566239.81	Upper	175.50	178.57	12/19/1991	17.88	8.46	170.11
						1/22/1993	17.88	9.38	169.19
						2/24/1993	17.88	9.73	168.84
						5/25/1993	17.88	9.55	169.02
						7/13/1993	17.88	10.56	168.01
						11/30/1993	17.88	11.36	167.21
						10/5/1998	17.88	11.62	166.95
						10/10/2000	17.88	12.40	166.17
						10/26/2000	17.88	12.46	166.11
						12/21/2000	17.88	NA	NA
						11/12/2003	17.88	10.75	167.82
						2/19/2004	17.60	8.55	170.02
						5/12/2004	17.60	10.14	168.43
						3/20/2006	17.60	7.25	171.32
						4/25/2008	17.60	9.46	169.11
						10/27/2009	17.60	8.58	169.99
						4/6/2010	**17.60**	**8.23**	**170.34**
						10/12/2010	**17.60**	**11.24**	**167.33**
MW-17	2457453.68	1566688.48	Lower	NI	NI	12/19/1991	NI	NI	NI
				176.20	178.97	1/22/1993	48.75	10.72	168.25
						2/24/1993	48.75	10.94	168.03
						5/25/1993	48.75	10.57	168.40
						7/13/1993	48.75	11.16	167.81
						11/30/1993	48.75	11.72	167.25
						10/5/1998	48.75	12.00	166.97
						10/10/2000	48.75	12.55	166.42
						10/26/2000	48.75	12.55	166.42
						12/21/2000	48.75	NA	NA
						11/12/2003	48.75	11.30	167.67
						2/19/2004	48.44	10.30	168.67
						5/12/2004	48.44	11.14	167.83
						4/25/2008	48.44	10.37	168.60
						10/26/2009	48.44	9.64	169.33
						4/6/2010	**48.44**	**9.03**	**169.94**
						10/12/2010	**48.44**	**NM**	**NM**
MW-19	2456769.76	1566985.12	Lower	NI	NI	12/19/1991	NI	NI	NI
				177.20	179.28	1/22/1993	49.32	13.20	166.08
						2/24/1993	49.32	13.74	165.54
						5/25/1993	49.32	NM	NM
						7/13/1993	49.32	13.94	165.34
						11/30/1993	49.32	NM	NM
						10/10/2000	49.32	NA	NA
						10/26/2000	49.32	NA	NA
						12/21/2000	49.32	NA	NA
						3/20/2006	48.44	8.56	170.72
MW-20	2458442.22	1566473.17	Upper	NI	NI	12/19/1991	NI	NI	NI
				182.70	182.35	1/22/1993	24.20	10.55	171.80
						2/24/1993	24.20	10.31	172.04
						5/25/1993	24.20	9.65	172.70
						7/13/1993	24.20	10.12	172.23
						11/30/1993	24.20	11.07	171.28
						10/10/2000	24.20	NA	NA
						10/26/2000	24.20	NA	NA
						12/21/2000	24.20	NA	NA
						11/12/2003	24.20	10.24	172.11
						3/20/2006	24.20	9.36	172.99
						4/25/2008	24.22	10.07	172.28
						4/6/2010	**24.22**	**NM**	**NM**

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-21	2456912.75	1566002.95	Upper	NI	NI	12/19/1991	NI	NI	NI
				175.30	177.69	1/22/1993	25.32	7.52	170.17
						2/24/1993	25.32	9.31	168.38
						5/25/1993	25.32	9.21	168.48
						7/13/1993	25.32	10.64	167.05
						11/30/1993	25.32	11.44	166.25
						10/10/2000	25.32	NA	NA
						10/26/2000	25.32	NA	NA
						12/21/2000	25.32	NA	NA
MW-23	2458509.99	1566050.69	Upper	NI	NI	12/19/1991	NI	NI	NI
				181.90	181.61	1/22/1993	22.50	9.67	171.94
						2/24/1993	22.50	9.28	172.33
						5/25/1993	22.50	7.57	174.04
						7/13/1993	22.50	9.18	172.43
						11/30/1993	22.50	10.50	171.11
						10/5/1998	22.50	9.82	171.79
						10/10/2000	22.50	11.76	169.85
						10/26/2000	22.50	11.87	169.74
						12/21/2000	22.50	NA	NA
						11/13/2003	22.50	9.57	172.04
						3/20/2006	22.50	8.40	173.21
						10/23/2006	22.50	10.31	171.30
						4/23/2007	22.50	9.48	172.13
						10/23/2007	22.50	10.49	171.12
						4/25/2008	22.50	9.26	172.35
						9/26/2008	22.50	10.17	171.44
						5/20/2009	22.50	8.29	173.32
						10/30/2009	22.50	8.34	173.27
						4/6/2010	**22.50**	**7.25**	**174.36**
						10/12/2010	**22.50**	**10.22**	**171.39**
MW-24	2458636.13	1565861.04	Upper	NI	NI	12/19/1991	NI	NI	NI
				181.60	181.17	1/22/1993	20.03	NMb	NM
						2/24/1993	20.03	NM	NM
						5/25/1993	20.03	NM	NM
						7/13/1993	20.03	NM	NM
						11/30/1993	20.03	NM	NM
						10/10/2000	20.03	NAPL	NM
						10/26/2000	20.03	NAPL	NM
						12/21/2000	20.03	NAPL	NM
						11/13/2003	20.03	13.3*	167.87
						3/20/2006	20.03	11.99	169.18
						4/25/2008	20.03	NM	NM
						4/6/2010	**20.03**	**NM**	**NM**
MW-25	2458814.74	1565735.86	Upper	NI	NI	12/19/1991	NI	NI	NI
				181.50	181.19	1/22/1993	22.40	8.73	172.46
						2/24/1993	22.40	8.31	172.88
						5/25/1993	22.40	7.58	173.61
						7/13/1993	22.40	8.28	172.91
						11/30/1993	22.40	9.62	171.57
						10/10/2000	22.40	10.50	170.69
						10/26/2000	22.40	11.07	170.12
						12/21/2000	22.40	NA	NA
						11/13/2003	22.40	8.20	172.99
						3/20/2006	22.40	7.86	173.33
						4/25/2008	22.40	8.22	172.97
						10/27/2009	22.40	7.94	173.25
						4/6/2010	**22.40**	**6.73**	**174.46**
						10/12/2010	**22.40**	**9.43**	**171.76**
MW-27	2458809.68	1565725.19	Lower	NI	NI	12/19/1991	NI	NI	NI
				NI	NI	1/22/1993	NI	NI	NI
				NI	NI	2/24/1993	NI	NI	NI
				181.90	181.60	5/25/1993	54.00	8.08	173.52
						7/13/1993	54.00	8.73	172.87
						11/30/1993	54.00	10.08	171.52
MW-28	2458801.66	1565730.50	Lower	NI	NI	12/19/1991	NI	NI	NI
				NI	NI	1/22/1993	NI	NI	NI
				NI	NI	2/24/1993	NI	NI	NI
				NI	NI	5/25/1993	NI	NI	NI
				181.80	181.43	7/13/1993	53.00	8.56	172.87
						11/30/1993	53.00	NM	NM

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-29	2458751.15	1565669.20	Lower	NI	NI	12/19/1991	NI	NI	NI
				NI	NI	1/22/1993	NI	NI	NI
				NI	NI	2/24/1993	NI	NI	NI
				NI	NI	5/25/1993	NI	NI	NI
				181.70	181.19	7/13/1993	55.00	8.27	172.92
						11/30/1993	55.00	9.74	171.45
MW-30	2458731.70	1565824.09	Lower	NI	NI	12/19/1991	NI	NI	NI
				NI	NI	1/22/1993	NI	NI	NI
				NI	NI	2/24/1993	NI	NI	NI
				NI	NI	5/25/1993	NI	NI	NI
				181.80	180.95	7/13/1993	53.50	8.78	172.17
MW-30	2458731.70	1565824.09	Lower	181.80	180.95	11/30/1993	53.50	10.14	170.81
MW-31	2458997.90	1565803.79	Lower	NI	NI	12/19/1991	NI	NI	NI
				NI	NI	1/22/1993	NI	NI	NI
				NI	NI	2/24/1993	NI	NI	NI
				NI	NI	5/25/1993	NI	NI	NI
				182.50	184.84	7/13/1993	66.50	11.37	173.47
						11/30/1993	66.50	12.38	172.46
MW-41	2456941.08	1566720.01	Upper	NA	179.28	11/10/2003	27.20	13.71	165.57
						2/19/2004	26.90	12.74	166.54
						5/12/2004	26.90	14.92	164.36
						3/29/2005	27.20	13.50	165.78
						11/7/2005	27.20	14.89	164.39
						3/20/2006	27.20	11.65	167.63
						6/6/2006	27.20	14.61	164.67
						10/23/2006	27.20	14.97	164.31
						4/23/2007	27.20	14.66	164.62
						10/22/2007	27.20	15.07	164.21
						4/25/2008	27.20	15.05	164.23
						9/23/2008	27.20	15.59	163.69
						5/19/2009	27.20	14.32	164.96
						10/26/2009	27.20	14.84	164.44
						4/6/2010	**27.20**	**14.36**	**164.92**
						10/12/2010	**27.20**	**15.11**	**164.17**
MW-42	2456942.98	1566729.89	Lower	NA	179.62	11/10/2003	50.42	14.19	165.43
						2/19/2004	50.30	13.17	166.45
						5/12/2004	50.30	15.40	164.22
						3/29/2005	50.45	14.06	165.56
						11/7/2005	50.45	15.15	164.47
						3/20/2006	50.45	11.95	167.67
						6/6/2006	50.45	15.09	164.53
						10/23/2006	50.45	15.38	164.24
						4/23/2007	50.45	15.06	164.56
						10/22/2007	50.45	15.44	164.18
						4/25/2008	50.45	15.38	164.24
						9/24/2008	50.45	15.93	163.69
						5/19/2009	50.45	14.59	165.03
						10/26/2009	50.45	15.08	164.54
						4/6/2010	**50.45**	**14.61**	**165.01**
						10/12/2010	**50.45**	**15.45**	**164.17**

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GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-43	2457013.90	1566718.46	PRB Upper	179.30	179.17	3/29/2005	24.35	12.66	166.51
						11/7/2005	24.35	14.93	164.24
						3/20/2006	24.35	10.99	168.18
						6/6/2006	24.35	13.96	165.21
						10/23/2006	24.35	14.48	164.69
						4/23/2007	24.35	14.24	164.93
						10/22/2007	24.35	14.67	164.50
						4/25/2008	24.35	14.50	164.67
						9/23/2008	24.35	15.18	163.99
						5/19/2009	24.35	13.77	165.40
						10/26/2009	24.35	14.38	164.79
						4/6/2010	**24.35**	**13.92**	**165.25**
						10/12/2010	**24.35**	**14.80**	**164.37**
MW-44	2457017.92	1566729.76	PRB Lower	179.10	178.90	3/29/2005	46.10	12.05	166.85
						11/7/2005	46.10	13.98	164.92
						3/20/2006	46.10	10.36	168.54
						6/6/2006	46.10	13.62	165.28
						10/23/2006	46.10	13.83	165.07
						4/23/2007	46.10	13.50	165.40
						10/22/2007	46.10	14.26	164.64
						4/25/2008	46.10	13.98	164.92
						9/26/2008	46.10	14.71	164.19
						5/19/2009	46.10	13.18	165.72
						10/26/2009	46.10	13.74	165.16
						4/6/2010	**46.10**	**13.23**	**165.67**
						10/12/2010	**46.10**	**14.21**	**164.69**
MW-45	2457105.42	1566690.48	Upper	NA	178.59	11/10/2003	27.80	12.06	166.53
						2/19/2004	27.48	11.90	166.69
						5/12/2004	27.48	13.02	165.57
						3/29/2005	27.80	10.75	167.84
						11/7/2005	27.48	11.81	166.78
						3/20/2006	27.48	8.60	169.99
						6/6/2006	27.48	11.01	167.58
						10/23/2006	27.48	11.75	166.84
						4/23/2007	27.48	11.10	167.49
						10/22/2007	27.48	11.78	166.81
						4/25/2008	27.48	10.71	167.88
						9/23/2008	27.48	11.87	166.72
						5/19/2009	27.48	9.38	169.21
						10/26/2009	27.48	9.98	168.61
						4/6/2010	**27.48**	**9.46**	**169.13**
						10/12/2010	**27.48**	**11.70**	**166.89**
MW-46	2457093.16	1566687.29	Lower	NA	178.37	11/10/2003	48.85	11.50	166.87
						2/19/2004	42.60	10.28	168.09
						5/12/2004	42.60	13.33	165.04
						3/29/2005	48.85	10.74	167.63
						11/7/2005	48.85	11.74	166.63
						3/20/2006	48.85	8.60	169.77
						6/6/2006	48.85	10.91	167.46
						10/23/2006	48.85	11.62	166.75
						4/23/2007	48.85	10.97	167.40
						10/22/2007	48.85	11.62	166.75
						4/25/2008	48.85	10.56	167.81
						9/24/2008	48.85	11.66	166.71
						5/19/2009	48.85	9.22	169.15
						10/26/2009	48.85	10.81	167.56
						4/6/2010	**48.85**	**9.28**	**169.09**
						10/14/2010	**48.85**	**11.50**	**166.87**

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GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-47	2456694.33	1566346.03	Upper	NA	178.64	11/10/2003	27.70	13.33	165.31
						2/19/2004	27.40	11.66	166.98
						5/12/2004	27.40	13.50	165.14
						3/29/2005	27.68	13.10	165.54
						11/7/2005	27.68	14.71	163.93
						3/20/2006	27.68	10.90	167.74
						6/6/2006	27.68	14.11	164.53
						10/23/2006	27.68	14.55	164.09
						4/23/2007	27.68	14.10	164.54
						10/22/2007	27.68	14.54	164.10
						4/25/2008	27.68	14.05	164.59
						9/23/2008	27.68	14.98	163.66
						5/19/2009	27.68	13.03	165.61
						10/26/2009	27.68	13.72	164.92
						4/6/2010	**27.68**	**13.32**	**165.32**
						10/12/2010	**27.68**	**14.72**	**163.92**
MW-48	2456695.74	1566357.80	Lower	NA	178.43	11/10/2003	52.62	12.96	165.47
						2/19/2004	52.34	11.15	167.28
						5/12/2004	52.34	12.90	165.53
						3/29/2005	52.60	12.42	166.01
						11/7/2005	52.60	14.87	163.56
						3/20/2006	52.60	10.36	168.07
						6/6/2006	52.60	13.55	164.88
						10/23/2006	52.60	14.10	164.33
						4/23/2007	52.60	13.57	164.86
						10/22/2007	52.60	14.13	164.30
						4/25/2008	52.60	13.42	165.01
						9/24/2008	52.60	14.51	163.92
						5/19/2009	52.60	12.22	166.21
						11/2/2009	52.60	12.14	166.29
						4/6/2010	**52.60**	**12.43**	**166.00**
						10/14/2010	**52.60**	**14.29**	**164.14**
MW-49	2456783.42	1566335.69	PRB Lower	178.40	178.25	3/29/2005	48.00	11.54	166.71
						11/7/2005	48.00	13.36	164.89
						3/20/2006	48.00	9.39	168.86
						6/6/2006	48.00	12.85	165.40
						10/23/2006	48.00	13.54	164.71
						4/23/2007	48.00	12.92	165.33
						10/22/2007	48.00	13.56	164.69
						4/25/2008	48.00	12.62	165.63
						9/26/2008	48.00	13.84	164.41
						5/19/2009	48.00	11.13	167.12
						10/26/2009	48.00	12.07	166.18
						4/6/2010	**48.00**	**11.75**	**166.50**
						10/12/2010	**48.00**	**13.73**	**164.52**
MW-50	2456792.02	1566344.92	PRB Upper	178.60	178.43	3/29/2005	24.03	11.71	166.72
						11/7/2005	24.03	13.54	164.89
						3/20/2006	24.03	9.49	168.94
						6/6/2006	24.03	13.05	165.38
						10/23/2006	24.03	13.70	164.73
						4/23/2007	24.03	13.06	165.37
						10/22/2007	24.03	13.71	164.72
						4/25/2008	24.03	12.79	165.64
						9/23/2008	24.03	14.08	164.35
						5/19/2009	24.03	11.34	167.09
						10/26/2009	24.03	12.08	166.35
						4/6/2010	**24.03**	**11.88**	**166.55**
						10/12/2010	**24.03**	**13.85**	**164.58**

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GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
MW-51	2456856.99	1566239.97	Upper	NA	178.22	11/10/2003	27.94	12.04	166.18
						2/19/2004	27.60	9.50	168.72
						5/12/2004	27.60	11.62	166.60
						3/29/2005	27.60	10.36	167.86
						11/7/2005	27.60	13.34	164.88
						3/20/2006	27.60	7.80	170.42
						6/6/2006	27.60	11.60	166.62
						10/23/2006	27.60	12.29	165.93
						4/23/2007	27.60	11.38	166.84
						10/22/2007	27.60	12.42	165.80
						4/25/2008	27.60	11.09	167.13
						9/24/2008	27.60	12.96	165.26
						5/20/2009	27.60	9.09	169.13
						10/26/2009	27.60	10.07	168.15
						4/6/2010	**27.60**	**9.92**	**168.30**
						10/12/2010	**27.60**	**12.77**	**165.45**
MW-52	2456863.30	1566229.21	Lower	NA	178.07	11/10/2003	46.40	12.21	165.86
						2/19/2004	45.96	10.16	167.91
						5/12/2004	45.96	11.96	166.11
						3/29/2005	46.25	10.77	167.30
						11/7/2005	46.25	12.55	165.52
						3/20/2006	46.25	8.09	169.98
						6/6/2006	46.25	11.37	166.70
						10/23/2006	46.25	12.42	165.65
						4/23/2007	46.25	11.57	166.50
						10/22/2007	46.25	12.48	165.59
						4/25/2008	46.25	10.86	167.21
						9/24/2008	46.25	12.64	165.43
						5/20/2009	46.25	9.49	168.58
						10/26/2009	46.25	10.38	167.69
						4/6/2010	**46.25**	**10.15**	**167.92**
						10/12/2010	**46.25**	**12.75**	**165.32**
MW-53	2457070.91	1566087.49	Upper	NA	177.91	11/10/2003	28.00	10.62	167.29
						2/19/2004	27.66	7.63	170.28
						5/12/2004	27.66	9.92	167.99
						3/29/2005	27.95	8.57	169.34
						11/8/2005	27.95	10.76	167.15
						3/20/2006	27.95	6.30	171.61
						6/6/2006	27.95	9.70	168.21
						10/23/2006	27.95	10.86	167.05
						4/23/2007	27.95	9.81	168.10
						10/22/2007	27.95	11.09	166.82
						4/25/2008	27.95	9.20	168.71
						9/24/2008	27.95	11.21	166.70
						10/26/2009	27.95	8.29	169.62
						4/6/2010	**27.95**	**8.14**	**169.77**
						10/12/2010	**27.95**	**11.53**	**166.38**
MW-54	2457012.08	1565991.99	Lower	NA	178.45	11/10/2003	45.11	11.04	167.41
						2/19/2004	44.80	8.42	170.03
						5/12/2004	44.80	10.70	167.75
						3/29/2005	45.10	9.40	169.05
						11/7/2005	45.10	11.69	166.76
						4/25/2008	45.10	10.09	168.36
						9/24/2008	45.10	12.11	166.34
						10/26/2009	45.10	9.26	169.19
						4/6/2010	**45.10**	**9.13**	**169.32**
						10/12/2010	**45.10**	**12.59**	**165.86**

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GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
DW-4	NA	NA	Lower	NI	NI	12/19/1991	NI	NI	NI
				NI	NI	1/22/1993	NI	NI	NI
				NI	NI	2/24/1993	NI	NI	NI
				180.70	183.73	5/25/1993	47.30	9.39	174.34
						7/13/1993	47.30	15.51	168.22
						11/30/1993	47.30	16.13	167.60
GP-1	NA	NA	NA	NA	179.96	10/10/2000	NA	NA	NA
						10/26/2000	NA	15.54	164.42
						5/12/2004	NA	NA	NA
GP-4	NA	NA	NA	NA	179.36	10/10/2000	NA	NA	NA
						10/26/2000	NA	14.40	164.96
						5/12/2004	26.80	13.04	166.32
					178.45	3/20/2006	45.10	6.96	171.49
						6/6/2006	45.10	10.62	167.83
						10/23/2006	45.10	11.80	166.65
						4/23/2007	45.10	10.67	167.78
						10/22/2007	45.10	12.02	166.43
RT-1	2458680.03	1566118.73	Upper	NI	NI	12/19/1991	NI	NI	NI
				NA	185.18	1/22/1993	22.38	13.08	172.10
						2/24/1993	22.38	12.70	172.48
						5/25/1993	22.38	12.02	173.16
						7/13/1993	22.38	12.61	172.57
						11/30/1993	22.38	13.88	171.30
						10/10/2000	22.38	15.13	170.05
						10/26/2000	22.38	15.25	169.93
						12/21/2000	22.38	NA	NA
						11/13/2003	22.38	12.96	172.22
						3/20/2006	22.38	11.70	173.48
						10/23/2006	22.38	13.71	171.47
						4/25/2008	22.38	12.69	172.49
						9/26/2008	22.38	13.63	171.55
						5/20/2005	22.38	11.57	173.61
						10/27/2009	22.38	11.82	173.36
						4/6/2010	**22.38**	**10.69**	**174.49**
						10/12/2010	**22.38**	**13.63**	**171.55**

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GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
RT-2	2458114.40	1566225.77	Upper	NI	NI	12/19/1991	NI	NI	NI
				NA	184.56	1/22/1993	22.05	13.03	171.53
						2/24/1993	22.05	12.70	171.86
						5/25/1993	22.05	12.06	172.50
						7/13/1993	22.05	12.62	171.94
						11/30/1993	22.05	13.83	170.73
						10/10/2000	22.05	15.04	169.52
						10/26/2000	22.05	15.13	169.43
						12/21/2000	22.05	NA	NA
						11/12/2003	22.05	12.89	171.67
						3/20/2006	22.05	11.90	172.66
						10/23/2006	22.05	13.60	170.96
						4/23/2007	22.05	12.78	171.78
						10/23/2007	22.05	13.79	170.77
						4/25/2008	22.05	12.50	172.06
						9/26/2008	22.05	13.50	171.06
						5/20/2009	22.05	11.57	172.99
						10/27/2009	22.05	11.63	172.93
						4/6/2010	**22.05**	**10.62**	**173.94**
						10/12/2010	**22.05**	**13.47**	**171.09**
RT-3	2458256.85	1566180.00	Upper	NI	NI	12/19/1991	NI	NI	NI
				NA	184.00	1/22/1993	22.04	12.27	171.73
						2/24/1993	22.04	11.92	172.08
						5/25/1993	22.04	11.20	172.80
						7/13/1993	22.04	11.84	172.16
						11/30/1993	22.04	13.07	170.93
						10/10/2000	22.04	14.34	169.66
						10/26/2000	22.04	14.43	169.57
						12/21/2000	22.04	NA	NA
						11/13/2003	22.04	12.18	171.82
						3/20/2006	22.04	10.97	173.03
						10/23/2006	22.04	12.87	171.13
						4/25/2008	22.04	11.76	172.24
						10/27/2009	22.04	10.93	173.07
						4/6/2010	**22.04**	**9.84**	**174.16**
						10/12/2010	**22.04**	**12.76**	**171.24**
RT-4	2458162.95	1566495.23	Upper	NI	NI	12/19/1991	NI	NI	NI
				NA	184.33	1/22/1993	22.38	13.02	171.31
						2/24/1993	22.38	12.78	171.55
						5/25/1993	22.38	12.12	172.21
						7/13/1993	22.38	12.63	171.70
						11/30/1993	22.38	13.72	170.61
						10/10/2000	22.38	14.86	169.47
						10/26/2000	22.38	14.95	169.38
						12/21/2000	22.38	NA	NA
						11/13/2003	22.38	12.88	171.45
				NA	184.00	3/20/2006	22.04	11.99	172.01
						10/23/2006	22.04	13.49	170.51
						4/23/2007	22.04	12.85	171.15
						10/23/2007	22.04	13.67	170.33
						4/25/2008	22.04	12.48	171.52
						9/26/2008	22.04	13.40	170.60
						5/19/2009	22.04	11.57	172.43
						10/27/2009	22.04	11.63	172.37
						4/6/2010	**22.04**	**10.56**	**173.44**
						10/12/2001	**22.04**	**13.31**	**170.69**

TABLE 3-1

GROUNDWATER ELEVATIONS

Grenada Manufacturing Site
Grenada, Mississippi

Monitoring Well	Easting	Northing	Well Type	Ground Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Date (m/d/y)	Total Depth (ft bTOC)	Depth to Water (ft bTOC)	Groundwater Elevation (ft msl)
RT-5	2458098.73	1566365.63	Upper	NI	NI	12/19/1991	NI	NI	NI
				NA	184.17	1/22/1993	19.60	12.82	171.35
						2/24/1993	19.60	12.56	171.61
						5/25/1993	19.60	NM	NM
						7/13/1993	19.60	12.47	171.70
						11/30/1993	19.60	13.57	170.60
						10/5/1998	19.60	13.05	171.12
						10/10/2000	19.60	14.71	169.46
						10/26/2000	19.60	14.80	169.37
						12/21/2000	19.60	NA	NA
						11/13/2003	19.60	12.72	171.45
						3/20/2006	19.60	11.74	172.43
						10/23/2006	19.60	13.28	170.89
						4/23/2007	19.60	12.60	171.57
						10/22/2007	19.60	13.49	170.68
						4/25/2008	19.60	12.27	171.90
						9/26/2008	19.60	13.25	170.92
						5/20/2009	19.60	11.32	172.85
						10/27/2009	19.60	11.40	172.77
						4/6/2010	**19.60**	**10.41**	**173.76**
						10/12/2010	**19.60**	**13.16**	**171.01**

Notes:
Bolded text represents data from calander year 2010

ft bTOC	Feet below Top of Casing
ft msl	Feet above mean sea level
NA	Not Available
NM	Not Measured
NI	Not Installed
NAPL	Well contained either light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL)
PRB	Well installed within iron backfill of permeable reactive barrier (PRB)
*	Groundwater elevation may be skewed due to the presence of LNAPL.

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-1	Upper	Aug. '91	7.70	NA	3.8 JE	0.012 J	0.0019 J	0.33 JE	0.14 J	0.007 J	0.0012 J
MW-1		Dec. '91	7.9 D	NA	4.9 D	UD	UD	UD	UD	UD	UD
MW-1		Jan. '93	4.9 D	NA	4.6 D	UD	UD	UD	UD	UD	UD
MW-1		Oct. '98	UD	62 D	1.2 D	UD	UD	UD	UD	UD	UD
MW-1		Oct. '00	6.1 D	20 D	1.5 D	UD	UD	0.099 JD	UD	UD	UD
MW-1		Nov. '03	3.1 D	31 D	1.2 D	0.500 UD	0.500 UD	0.500 UD	0.500 UD	0.500 UD	0.500 UD
MW-1		Mar. '06	0.390 D	9.3 D	0.200 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-1		Apr. '08	0.600 D	4.1 D	0.160 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-2	Upper	Aug. '91	480 JD	NA	18 JE	0.074 J	0.011 J	2.5 JE	2.8 JE	0.16 J	U
MW-2		Dec. '91	690 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-2		Jan. '93	560 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-2		Oct. '98	650 D	170 D	6.6 D	0.08 JD	UD	0.25 JD	2.2 D	UD	UD
MW-3	Upper	Aug. '91	0.29 JD	NA	U	0.0047 J	U	0.0067 J	0.0007 J	U	0.0005 J
MW-3		Dec. '91	3 D	NA	UD	0.01 D	UD	UD	UD	UD	UD
MW-3		Jan. '93	1.2 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-3		Mar. '06	0.076 D	0.230 D	0.004 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-4	Upper	Aug. '91	3.5 JDX	NA	6.5 JD	U	0.0033 J	0.049	0.1	0.0032 J	0.0022 J
MW-4		Dec. '91	3.9 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-4		Jan. '93	2.9 D	NA	5.9 D	UD	UD	UD	UD	UD	UD
MW-4		Oct. '98	3.7 D	16 D	3.2 D	0.0055 J	U	0.036	0.082	U	0.0028 J
MW-4		Oct. '00	3.3 D	24 D	3.3 D	UD	UD	UD	0.07 JD	UD	UD
MW-4		Nov. '03	2.9 D	17 D	4.1 D	0.200 UD	0.200 UD	0.200 UD	0.063 JD	0.200 UD	0.200 UD
MW-4		Mar. '06	3.6 D	17 D	2.5 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-4		Apr. '08	2.6 D	12 D	1.5 D	0.100 UD	0.100 UD	0.100 UD	0.052 JD	0.100 UD	0.100 UD
MW-4 DUP (425)		Apr. '08	2.9 D	13 D	0.490 D	0.100 UD	0.100 UD	0.100 UD	0.060 JD	0.100 UD	0.100 UD
DW-4		Oct. '98	20 D	5.7 D	1.2 D	0.054	0.044	0.037	U	U	0.0092 J
MW-5	Upper	Aug. '91	1.5 JD	NA	U	0.0018 J	U	U	0.029	0.008 J	U
MW-5		Dec. '91	1.2 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-5		Jan. '93	15 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-5		Oct. '98	100 D	37 D	0.2 JD	UD	UD	UD	UD	UD	UD
MW-5		Oct. '00	69 D	45 D	UD	UD	UD	UD	UD	UD	UD
MW-5		Nov. '03	0.600 D	0.420 D	0.010 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-5		May '04	1.5 D	1 D	UD	UD	UD	UD	UD	UD	UD
MW-5		Mar. '05	30 D	8.2 D	0.400 UD	0.200 UD	0.200 UD	0.200 UD	0.200 UD	0.200 UD	0.200 UD
MW-5		Nov. '05	0.820 D	0.250 D	0.010 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-5		Mar. '06	0.930 D	0.220 D	0.020 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-5		Oct. '06	0.810 D	0.230 D	0.020 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-5		Apr. '07	1.3 D	0.320 D	0.020 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-5		Oct. '07	3.2 D	0.590 D	0.0049 JD	0.00085 JD	0.005 UD	0.0014 JD	0.005 UD	0.00070 JD	0.005 UD
MW-5		Apr. '08	6.0 D	1.1 D	0.050 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD
MW-5		Sep. '08	8.4 D	1.5 D	0.100 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-5		**Apr. '10**	**16 D**	**4.42 D**	**0.111 JD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-6	Upper	Aug. '91	9 JD	NA	24 JD	0.027	0.012	0.12	1.1 JD	0.019	0.0017 J
MW-6		Dec. '91	2.7 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-6		Jan. '93	9.8 D	NA	62 D	UD	UD	UD	0.81 JD	UD	UD
MW-6		Oct. '98	2.9 D	20 D	18 D	U	U	0.032	0.16	U	0.0015 J
MW-6		Oct. '00	3.5 D	3.2 D	1.2 D	0.025 D	U	0.012 JD	0.0068 JD	U	U
MW-6		Nov. '03	0.870 D	12 D	28 D	0.200 UD	0.200 UD	0.200 UD	0.160 JD	0.200 UD	0.200 UD
MW-6		Mar. '06	1.6 D	17 D	13 D	0.100 UD	0.100 UD	0.100 UD	0.120 D	0.100 UD	0.100 UD
MW-6		Apr. '08	0.450 D	40 D	8.6 D	0.400 UD	0.400 UD	0.400 UD	0.480 D	0.400 UD	0.400 UD
MW-7	Upper	Aug. '91	0.019 J	NA	U	U	U	U	U	U	U
MW-7 DUP		Aug. '91	0.014 J	NA	U	U	U	U	U	U	U
MW-7		Dec. '91	0.015	NA	U	U	U	U	U	U	U
MW-7		Jan. '93	0.0078 J	NA	U	U	U	U	U	U	U
MW-7		Oct. '00	0.050	0.0061	U	U	U	U	U	U	U
MW-7		Nov. '03	0.014	0.00078 J	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-7		Mar. '06	0.0012	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-7		Apr. '08	0.0032	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-7		**Apr. '10**	**0.0289**	**0.000635 J**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
MW-7 DUP 040910		**Apr. '10**	**0.0221**	**0.000572 J**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
MW-8	Lower	Dec. '91	0.42 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-8		Jan. '93	0.3 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-8		Oct. '00	0.12	0.0032 J	U	U	U	U	U	U	U
MW-8		Nov. '03	0.110	0.0038	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-8		Mar. '06	0.095	0.0032	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-8		Apr. '08	0.061	0.0023	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-8		**Apr. '10**	**0.107**	**0.00296**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
MW-9	Lower	Dec. '91	U		U	U	U	U	U	U	U
MW-9		Jan. '93	U		U	U	U	U	U	U	U
MW-9 DUP		Jan. '93	U		U	U	U	U	U	U	U
MW-9		Nov. '03	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-9		Mar. '06	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-9		Apr. '08	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-9		**Apr. '10**	**0.001 U**	**0.001 U**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
MW-10	Lower	Aug. '91	0.0051 J	NA	U	U	U	U	U	U	U
MW-10		Jan. '93	0.0023 J	NA	U	U	U	U	U	U	U
MW-10		Oct. '98	0.0065 JD	UD	UD	UD	UD	UD	UD	UD	UD
MW-10		Oct. '00	0.0043 J	U	U	U	U	U	U	U	U
MW-10		Nov. '03	0.0033	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Mar. '05	0.0049	0.0014	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Nov. '05	0.0039	0.0013	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Mar. '06	0.0028	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Oct. '06	0.0037	0.0014	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Apr. '07	0.0023	0.00095 J	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Oct. '07	0.0031	0.0013	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Apr. '08	0.0057	0.0028	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-10		Sep. '08	0.0043	0.002	0.002 U	0.001 U	0.001 U	0.001 U	0.00050 J	0.001 U	0.001 U
MW-10		**Apr. '10**	**0.00873**	**0.00819**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-11	Upper	Dec. '91	0.072	NA	U	U	U	U	U	U	U
MW-11		Jan. '93	0.025	NA	U	U	U	U	U	U	U
MW-11		Oct. '00	1.4 D	0.038 D	UD	UD	UD	UD	UD	UD	UD
MW-11		Nov. '03	0.013	0.00047 J	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-11		Mar. '06	0.011	0.0056	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-11		Apr. '08	0.0014	0.00061 J	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-11		**Apr. '10**	**0.000631 J**	**0.001 U**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
MW-12	Upper	Dec. '91	U	NA	U	U	U	U	U	U	U
MW-12		Jan. '93	0.0075 J	NA	U	U	U	U	U	U	U
MW-12		Oct. '98	0.022	0.19	U	U	U	U	U	U	U
MW-12		Oct. '00	0.062	0.11	U	U	U	U	U	U	U
MW-12		Nov. '03	0.004	0.031	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-12 Dup		Nov. '03	0.0043	0.032	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-12		Mar. '06	0.0087	0.029	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-12		Apr. '08	0.001	0.0053	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-12		**Apr. '10**	**0.000804 J**	**0.00482**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
MW-13	Upper	Dec. '91	U	NA	0 U	U	U	U	U	U	U
MW-13		Jan. '93	U	NA	0 U	U	U	U	U	U	U
MW-13		Oct. '00	U	U	0 U	U	U	U	U	U	U
MW-13		Nov. '03	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-13		Mar. '06	0.034	0.040	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-13		Apr. '08	0.170 D	0.210 D	0.004 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-13		**Apr. '10**	**0.176 D**	**0.175 D**	**0.010 UD**	**0.005 UD**	**0.005 UD**	**0.005 UD**	**0.005 UD**	**0.005 UD**	**0.005 UD**
MW-14	Upper	Dec. '91	0.38 D	NA	U	U	U	U	U	U	U
MW-14		Jan. '93	0.33 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-14		Oct. '98	1.2 D	0.5 D	UD	UD	UD	UD	UD	UD	UD
MW-14		Oct. '00	4.8 D	2.4 D	UD	UD	UD	UD	UD	UD	UD
MW-14		Nov. '03	0.450 D	0.190 D	0.010 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-14		Mar. '05	0.016 JD	4.8 D	0.250 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-14		Nov. '05	0.0018	0.150	0.100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-14		Mar. '06	0.0039	0.018	0.0047	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011
MW-14		Oct. '06	0.016	0.200	0.120	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-14		Apr. '07	0.0016	0.0066	0.0058	0.001 U	0.001 U	0.001 U	0.00021 J	0.001 U	0.00061 J
MW-14		Oct. '07	0.0024 D	0.640 D	0.420 D	0.002 UD	0.002 UD	0.002 D	0.002 UD	0.002 UD	0.00030 JD
MW-14 Dup (MW-63)		Oct. '07	0.038 D	0.660 D	0.420 D	0.010 UD	0.010 UD	0.0021 JD	0.010 UD	0.010 UD	0.010 UD
MW-14		Apr. '08	0.120 D	0.650 D	0.240 D	0.005 UD	0.005 UD	0.0025 JD	0.005 UD	0.005 UD	0.005 UD
MW-14		Sep. '08	1.0 D	1.0 D	0.110 D	0.010 UD	0.010 UD	0.0062 JD	0.010 UD	0.010 UD	0.010 UD
MW-14		May. '09	4.7 D	2.1 D	0.110 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-14 DUP (DUP052009)		May. '09	4.6 D	2.2 D	0.110 D	0.025 UD	0.025 UD	0.0083 JD	0.025 UD	0.025 UD	0.025 UD
MW-14		Nov. '09	0.120	0.064	0.0039	0.001 U	0.001 U	0.00044 J	0.001 U	0.001 U	0.001 U
MW-14		**Apr. '10**	**4.38 D**	**2.32 D**	**0.254 D**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**
MW-14		**Oct. '10**	**0.887 D**	**0.587 D**	**0.0457 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-14 DUP (101510)		**Oct. '10**	**1.100 D**	**0.766 D**	**0.0547 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-15	Upper	Dec. '91	3.5 D	NA	5.6 D	UD	UD	UD	UD	UD	UD
MW-15		Jan. '93	3.3 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-15		Oct. '98	5.2 D	2.3 D	0.0078 J	0.012	U	0.01	U	U	U
MW-15		Oct. '00	3.4 D	1.8 D	UD	UD	UD	UD	UD	UD	UD
MW-15		Nov. '03	2.5 D	3.4 D	0.100 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-15		Mar. '06	1.2 D	1.4 D	0.020 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-15		Apr. '08	0.570 D	0.820 D	0.002 JD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-16	Upper	Dec. '91	7.1 JD	NA	55 D	UD	UD	UD	UD	UD	UD
MW-16		Jan. '93	5.5 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-16		Oct. '98	2.8 D	3.7 D	0.36 D	0.0061 J	U	0.012	U	U	U
MW-16		Oct. '00	3.8 D	4 D	0.49 D	UD	UD	0.014 JD	UD	UD	UD
MW-16 DUP		Oct. '00	4.4 D	4.3 D	0.54 D	UD	UD	UD	UD	UD	UD
MW-16		Nov. '03	2.3 D	3 D	0.410 D	0.020 UD	0.020 UD	0.020 UD	0.020 UD	0.020 UD	0.020 UD
MW-16		Mar. '06	2.1 D	2.5 D	0.250 D	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD
MW-16		Apr. '08	1.1 D	1.2 D	0.150 D	0.0015 JD	0.010 UD	0.0052 JD	0.010 UD	0.010 UD	0.010 UD
MW-16		**Apr. '10**	**0.871 D**	**1.02 D**	**0.161 D**	**0.010 UD**	**0.010 UD**	**0.00747 JD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-17	Lower	Jan. '93	11 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-17		Feb. '93	12 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-17 DUP		Feb. '93	11 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-17		Oct. '98	13 D	2.8 D	0.31 JD	UD	UD	UD	UD	UD	UD
MW-17		Oct. '00	9 D	1.9 D	0.14 JD	UD	UD	UD	UD	UD	UD
MW-17		Nov. '03	8.3 D	2.3 D	0.230 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-17 DUP		Nov. '03	8.7 D	2.3 D	0.210 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-17		Mar. '06	8.5 D	2.1 D	0.200 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-17 DUP (MW-B)		Mar. '06	8.2 D	2.1 D	0.200 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-17		Apr. '08	4.9 D	1.5 D	0.100 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-19	Lower	Jan. '93	U	NA	U	U	U	U	U	U	U
MW-19		Feb. '93	U	NA	U	U	U	U	U	U	U
MW-20	Upper	Jan. '93	0.018	NA	U	U	U	U	U	U	U
MW-20		Feb. '93	0.024	NA	U	U	U	U	U	U	U
MW-20		Nov. '03	0.066	0.079	0.00051 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-20		Mar. '06	0.034	0.033	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-20		Apr. '08	0.037	0.036	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-21	Upper	Jan. '93	0.015	NA	U	U	U	U	U	U	U
MW-21		Feb. '93	0.0034 J	NA	U	U	U	U	U	U	U

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-23	Upper	Jan. '93	9 D	NA	U	0.0025 J	U	0.0096 J	U	U	U
MW-23		Feb. '93	6.4 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-23		Oct. '98	0.2 D	0.095 D	0.011 JD	UD	UD	UD	UD	UD	UD
MW-23		Oct. '00	11 D	5 D	0.31 D	0.005 JD	U	0.059 D	UD	UD	UD
MW-23		Nov. '03	1.6 D	1.8 D	0.200 D	0.020 UD	0.020 UD	0.025 D	0.020 UD	0.020 UD	0.020 UD
MW-23		Mar. '06	5.5 D	2.5 D	0.21 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-23		Oct. '06	5.7 D	NA	0.200 UD	0.100 UD	NA	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-23		Apr. '07	7.2 D	NA	0.250 D	0.100 UD	NA	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-23		Oct. '07	5.0 D	NA	0.180 D	0.050 UD	NA	0.022 JD	0.050 UD	0.050 UD	0.050 UD
MW-23 Dup (RT-9)		Oct. '07	5.7 D	NA	0.220 D	0.100 UD	NA	0.024 JD	0.100 UD	0.100 UD	0.100 UD
MW-23		Apr. '08	4.9 D	NA	0.160 D	0.040 UD	NA	0.040 UD	0.040 UD	0.040 UD	0.040 UD
MW-23		Sep. '08	3.3 D	NA	0.065 D	0.012 UD	NA	0.0091 JD	0.012 UD	0.012 UD	0.012 UD
MW-23 DUP (926/0810039-07)		Sep. '08	3.5 D	NA	0.048 D	0.012 UD	NA	0.009 JD	0.012 UD	0.012 UD	0.012 UD
MW-23		May. '09	0.630 D	0.300 D	0.023 D	0.010 UD	0.010 UD	0.0025 JD	0.010 UD	0.010 UD	0.010 UD
MW-23		Oct. '09	3.6 D	NA	0.088 D	0.025 UD	NA	0.0096 JD	0.025 UD	0.025 UD	0.0029 JD
MW-23		**Apr. '10**	**3.26 D**	**1.9 D**	**0.110 D**	**0.020 UD**	**0.020 UD**	**0.0112 JD**	**0.020 UD**	**0.020 UD**	**0.020 UD**
MW-24	Upper	Jan. '93	11 D	NA	UD	UD	UD	UD	0.66 D	UD	0.63 JD
MW-24		Feb. '93	4.4 JD	NA	UD	UD	UD	UD	0.15 D	UD	UD
MW-25	Upper	Jan. '93	360 D	NA	UD	UD	UD	UD	UD	UD	UD
MW-25		Feb. '93	240 D	NA	12 D	UD	UD	UD	UD	UD	UD
MW-25		Oct. '00	130 D	36 D	2.2 JD	0.28	0.028	0.81 D	0.36	0.76	0.0032 J
MW-25		Nov. '03	280 D	64 D	7.0 D	0.330 JD	1.0 UD	0.690 JD	0.440 JD	1.0 UD	1.0 UD
MW-25		Mar. '06	42 D	1.7 D	1 UD	0.500 UD	0.500 UD	0.500 UD	0.500 UD	0.500 UD	0.500 UD
MW-25		Apr. '08	79 D	25 D	1.2 D	0.096	0.0071	0.240 JD	0.120	0.030	0.001
MW-25		**Apr. '10**	**3.67 D**	**0.276 D**	**0.00486 JD**	**0.00247 JD**	**0.010 U**	**0.010 U**	**0.010 U**	**0.010 U**	**0.010 U**
MW-41	Upper	Nov. '03	7.6 D	10 D	3.2 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-41		Mar. '05	0.020 UD	1.6 D	0.360 D	0.020 UD	0.020 UD	0.020 UD	0.020 UD	0.020 UD	0.020 UD
MW-41		Nov. '05	0.020 UD	1.7 D	0.300 D	0.020 UD	0.020 UD	0.020 UD	0.020 UD	0.020 UD	0.020 UD
MW-41		Mar. '06	0.025 UD	2.7 D	0.420 D	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD
MW-41		Jun. '06	0.001 U	0.046	0.015	0.001 U	0.0018	0.001 U	0.001 U	0.001 U	0.0035
MW-41		Oct. '06	0.001 U	0.012	0.0027	0.001 U	0.0012	0.001 U	0.001 U	0.001 U	0.0079
MW-41		Apr. '07	0.00068 J	0.0026	0.00052 J	0.001 U	0.00049 J	0.001 U	0.00030 J	0.001 U	0.0028
MW-41		Oct. '07	0.0017 JD	0.300 D	0.046 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.0036 JD
MW-41		Apr. '08	0.001 U	0.0013	0.018	0.001 U	0.00068 J	0.001 U	0.00019 J	0.001 U	0.0051
MW-41		Sep. '08	0.00071 J	0.0210	0.0042	0.001 U	0.0015	0.001 U	0.00035 J	0.001 U	0.0082
MW-41		May. '09	0.00036 J	0.0099	0.014	0.001 U	0.00012 J	0.001 U	0.00011 J	0.001 U	0.0015
MW-41		Oct. '09	0.00070 J	0.0053	0.0084	0.001 U	0.00054 J	0.001 U	0.00018 J	0.001 U	0.0046
MW-41		**Apr. '10**	**0.050 UD**	**3.99 D**	**2.44 D**	**0.050 UD**	**0.050 UD**	**0.050 UD**	**0.050 UD**	**0.050 UD**	**0.050 UD**
MW-41		**Oct. '10**	**0.001 U**	**0.0265**	**0.0104**	**0.001 U**	**0.001 U**	**0.001 U**	**0.000273 J**	**0.001 U**	**0.00352**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-42	Lower	Nov. '03	6.7 D	12 D	8.2 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-42		Mar. '05	7.6 D	18 D	0.540 D	0.100 UD	0.100 UD	0.059 JD	0.100 UD	0.100 UD	0.100 UD
MW-42		Nov. '05	0.100 UD	7.1 D	2.8 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-42		Mar. '06	0.025 UD	2.7 D	3.6 D	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD
MW-42		Jun. '06	0.005 UD	0.450 D	0.640 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-42		Oct. '06	0.001 U	0.096	0.064	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-42		Apr. '07	0.0016	0.022	0.100	0.001 U	0.001 U	0.001 U	0.00039 J	0.001 U	0.001
MW-42		Oct. '07	0.010 JD	0.080 D	0.530 D	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD
MW-42		Apr. '08	0.0026 D	0.090 D	0.370 D	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.0012 JD
MW-42		Sep. '08	0.0012	0.053	0.280 D	0.001 U	0.001 U	0.001 U	0.00060 J	0.001 U	0.0017
MW-42		May. '09	0.005 UD	0.150 D	0.360 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.0015 JD
MW-42		Oct. '09	0.0064	0.180	0.270 D	0.001 U	0.001 U	0.001 U	0.00035 J	0.001 U	0.0025
MW-42		**Apr. '10**	**0.0055 JD**	**0.522 D**	**1.330 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.00797 JD**
MW-42		**Oct. '10**	**0.00617 JD**	**0.305 D**	**0.379 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.00148 JD**
MW-43	PRB Upper	Mar. '05	0.001 U	0.019	0.0037	0.001 U	0.0019	0.001 U	0.001 U	0.001 U	0.0012
MW-43 Diff		Nov. '05	0.001 U	0.001 U	0.002 U	0.001 U	0.0025	0.001 U	0.001 U	0.001 U	0.0058
MW-43 (Diffuse Bag)		Apr. '06	0.001 U	0.001 U	0.002 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U	0.0087
MW-43S (Std. Low Purge)		Jun. '06	0.001 U	0.0067	0.002 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U	0.0074
MW-43D		Jun. '06	0.001 U	0.001 U	0.002 U	0.001 U	0.0021	0.001 U	0.001 U	0.001 U	0.0072
MW-43 Diff		Oct. '06	0.001 U	0.001 U	0.002 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U	0.011
MW-43 Dup (MW-AC)		Oct. '06	0.001 U	0.001 U	0.002 U	0.001 U	0.0013	0.001 U	0.001 U	0.001 U	0.0062
MW-43 (Diffusion Bag)		May. '07	0.001 U	0.013	0.0043	0.001 U	0.0013	0.001 U	0.00019 J	0.001 U	0.0063
MW-43		Oct. '07	0.001 U	0.0032	0.00034 J	0.001 U	0.001	0.001 U	0.00042 J	0.001 U	0.006
MW-43		Apr. '08	0.00043 JB	0.014	0.0066	0.001 U	0.0017	0.001 U	0.00042 J	0.001 U	0.0076
MW-43		Sep. '08	0.001 U	0.001 U	0.002 U	0.001 U	0.00096 J	0.001 U	0.00088 J	0.001 U	0.0074
MW-43		May. '09	0.001 U	0.0031	0.0017 J	0.001 U	0.00073 J	0.001 U	0.00042 J	0.001 U	0.0061
MW-43		Oct. '09	0.001 U	0.00092 J	0.00094 J	0.001 U	0.0012	0.001 U	0.00048 J	0.001 U	0.0072
MW-43		**Apr. '10**	**0.001 U**	**0.000710 J**	**0.000767 J**	**0.001 U**	**0.000613 J**	**0.001 U**	**0.001 U**	**0.001 U**	**0.00501**
MW-43		**Oct. '10**	**0.001 U**	**0.0014**	**0.00179**	**0.001 U**	**0.000674 J**	**0.001 U**	**0.000709 J**	**0.001 U**	**0.00541**
MW-44	PRB Lower	Mar. '05	0.001 U	0.160	0.022	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001
MW-44 DUP		Mar. '05	0.001 U	0.140	0.019	0.001 U	0.00054 J	0.001 U	0.001 U	0.001 U	0.00094 J
MW-44		Nov. '05	0.001 U	0.031	0.0031	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0014
MW-44 Diff		Nov. '05	0.001 U	0.032	0.0029	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0014
MW-44 (Diffuse Bag)		Apr. '06	0.001 U	1.1 D	0.160	0.001 U	0.001 U	0.0012	0.001 U	0.001 U	0.0018
MW-44 DUP (MW-F)		Apr. '06	0.001 U	1.2 D	0.190	0.001 U	0.001 U	0.0015	0.001 U	0.001 U	0.0019
MW-44S (Std. Low Purge)		Jun. '06	0.010 UD	1.4 D	0.081 D	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-44D		Jun. '06	0.010 UD	2 D	0.130 D	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-44 Diff		Oct. '06	0.025 UD	2.8 D	0.220 D	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD	0.025 UD
MW-44		Oct. '06	0.050 UD	3.4 D	0.230 D	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD	0.050 UD
MW-44 (Diffuse Bag)		May. '07	0.001 U	1.3 D	0.160	0.001 U	0.00056 J	0.00051 J	0.001 U	0.001 U	0.0021
MW-44		Oct. '07	0.001 U	0.120	0.110	0.001 U	0.00022 J	0.001 U	0.001 U	0.001 U	0.0014
MW-44		Apr. '08	0.001 U	0.047	0.0094	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00044 J
MW-44		Sep. '08	0.00023 J	0.017	0.0047	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00054 J
MW-44		May. '09	0.001 U	0.0062	0.0086	0.001 U	0.00024 J	0.001 U	0.00022 J	0.001 U	0.002
MW-44		Oct. '09	0.001 U	0.009	0.020	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002
MW-44		**Apr. '10**	**0.001 U**	**0.00585**	**0.0479 X**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.00225**
MW-44		**Oct. '10**	**0.001 U**	**0.0017**	**0.00478**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.00204**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-45	Upper	Nov. '03	15 D	12 D	0.84 D	0.037 JD	0.100 UD	0.063 JD	0.100 UD	0.100 UD	0.100 UD
MW-45		Mar. '05	15 D	13 D	4.1 D	0.040 JD	0.100 UD	0.062 JD	0.100 UD	0.100 UD	0.100 UD
MW-45		Nov. '05	11 D	12 D	1.5 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-45		Mar. '06	11 D	14 D	3.6 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-45		Jun. '06	11 D	10 D	1.5 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-45		Oct. '06	8.6 D	11 D	1.1 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-45		Apr. '07	13 D	20 D	3.6 D	0.018 JD	0.100 UD	0.048 JD	0.100 UD	0.100 UD	0.100 UD
MW-45		Oct. '07	9.1 D	12 D	1.6 D	0.013 JD	0.100 UD	0.029 JD	0.100 UD	0.100 UD	0.100 UD
MW-45		Apr. '08	12 D	18 D	3.0 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-45		Sep. '08	11 D	16 D	1.9 D	0.200 UD	0.200 UD	0.038 JD	0.200 UD	0.200 UD	0.200 UD
MW-45		May. '09	12 D	19 D	2.7 D	0.018 JD	0.100 UD	0.036 JD	0.024 JD	0.100 UD	0.100 UD
MW-45		Oct. '09	7.0 D	9.3 D	1.3 D	0.013 JD	0.050 UD	0.028 JD	0.050 UD	0.050 UD	0.050 UD
MW-45		**Apr. '10**	**15.6 D**	**19.2 D**	**8.49 D**	**0.100 UD**	**0.100 UD**	**0.0529 JD**	**0.100 UD**	**0.100 UD**	**0.100 UD**
MW-45		**Oct. '10**	**10.3 D**	**17.4 D**	**5.03 D**	**0.0185 JD**	**0.100 UD**	**0.0424 JD**	**0.100 UD**	**0.100 UD**	**0.100 UD**
MW-46	Lower	Nov. '03	11 D	7.9 D	0.580 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-46		Mar. '05	15 D	8.3 D	0.530 D	0.100 UD	0.100 UD	0.038 JD	0.100 UD	0.100 UD	0.100 UD
MW-46		Nov. '05	14 D	7.0 D	0.520 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-46		Mar. '06	13 D	8.3 D	0.430 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-46		Jun. '06	11 D	7.2 D	0.220 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-46		Oct. '06	11 D	6.7 D	0.390 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-46		Apr. '07	8.3 D	5.2 D	0.099 JD	0.014 JD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
MW-46		Oct. '07	11 D	6.0 D	0.340 D	0.017 JD	0.100 UD	0.034 D	0.100 UD	0.100 UD	0.100 UD
MW-46		Apr. '08	7.7 D	4.6 D	0.180 D	0.012 JD	0.050 UD	0.024 JD	0.050 UD	0.050 UD	0.050 UD
MW-46		Sep. '08	8.4 D	5.1 D	0.220 D	0.011 JD	0.100 UD	0.015 JD	0.100 UD	0.100 UD	0.100 UD
MW-46 DUP (DUP-923)		Sep. '08	8.7 D	5.3 D	0.210 D	0.100 UD	0.100 UD	0.015 JD	0.100 UD	0.100 UD	0.100 UD
MW-46		May. '09	6.6 D	4.5 D	0.089 JD	0.0077 JD	0.050 UD	0.016 JD	0.050 UD	0.050 UD	0.050 UD
MW-46		Oct. '09	5.8 D	4.2 D	0.100 D	0.011 JD	0.050 UD	0.024 JD	0.050 UD	0.050 UD	0.013 JD
MW-46		**Apr. '10**	**1.38 D**	**0.893 D**	**0.00433 JD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-46 DUP 040710		**Apr. '10**	**6.57 D**	**4.29 D**	**0.0115 JD**	**0.00607 JD**	**0.020 UD**	**0.020 UD**	**0.020 UD**	**0.020 UD**	**0.020 UD**
MW-46		**Oct. '10**	**7.17 D**	**4.39 D**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**	**0.100 UD**
MW-47	Upper	Nov. '03	0.00068 J	0.003	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-47		Mar. '05	0.0011	0.0039	0.002 U	0.001 U	0.001 U	0.001 U	0.00024 J	0.001 U	0.00034 J
MW-47		Nov. '05	0.001 U	0.0046	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-47		Mar. '06	0.001 U	0.0033	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-47		Oct. '06	0.001 U	0.0016	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-47		Apr. '07	0.00023 J	0.0021	0.00093 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00045 J
MW-47 DUP (MW-JT)		Apr. '07	0.00028 J	0.0020	0.00093 J	0.001 U	0.001 U	0.001 U	0.00018 J	0.001 U	0.00046 J
MW-47		Oct. '07	0.00029 J	0.0010	0.00037 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00034 J
MW-47		Apr. '08	0.001 U	0.00058 J	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00018 J
MW-47		Sep. '08	0.0011	0.0013	0.002 U	0.001 U	0.001 U	0.001 U	0.001	0.001 U	0.00041 J
MW-47		May. '09	0.00023 J	0.0014	0.00028 J	0.001 U	0.001 U	0.001 U	0.00010 J	0.001 U	0.00042 J
MW-47		Nov. '09	0.001 U	0.00076 J	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00038 J
MW-47		**Apr. '10**	**0.001 U**	**0.000788 J**	**0.002 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.000544 J**
MW-47		**Oct. '10**	**0.000512 J**	**0.0022**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.000429 J**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-48	Lower	Nov. '03	0.39 D	0.470 D	0.002 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-48		Mar. '05	0.0038 JD	0.590 D	0.0065 JD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-48		Nov. '05	0.001 U	0.093	0.190	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-48		Mar. '06	0.002	0.0091	0.017	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-48		Oct. '06	0.110	1 D	0.180 D	0.001 U	0.001 U	0.0043	0.001 U	0.001 U	0.001 U
MW-48		Apr. '07	0.0064	0.320 D	0.0031	0.001 U	0.001 U	0.0011	0.00017 J	0.001 U	0.00028 J
MW-48		Oct. '07	0.950 D	5.4 D	0.510 D	0.0015	0.00079 J	0.018	0.001 U	0.001 U	0.0016
MW-48		Apr. '08	0.0044 D	0.340 D	0.0032 JD	0.004 UD	0.004 UD	0.004 UD	0.004 UD	0.004 UD	0.004 UD
MW-48		Sep. '08	0.0056 D	0.390 D	0.065 D	0.005 UD	0.005 UD	0.002 JD	0.005 UD	0.005 UD	0.005 UD
MW-48		May. '09	0.320 D	2.4 D	0.510 D	0.020 UD	0.020 UD	0.010 JD	0.020 UD	0.020 UD	0.020 UD
MW-48		Nov. '09	0.017	0.300 D	0.150	0.001 U	0.00036 J	0.0023	0.00015 J	0.001 U	0.0014
MW-48		**Apr. '10**	**0.514 D**	**2.1 D**	**0.141 D**	**0.020 UD**	**0.020 UD**	**0.0067 JD**	**0.020 UD**	**0.020 UD**	**0.020 UD**
MW-48		**Oct. '10**	**0.121 D**	**1.02 D**	**0.226 D**	**0.020 UD**	**0.020 UD**	**0.020 UD**	**0.020 UD**	**0.020 UD**	**0.020 UD**
MW-49	PRB Lower	Mar. '05	0.510 D	0.720 D	0.050 D	0.005 UD	0.005 UD	0.003 JD	0.005 UD	0.005 UD	0.005 UD
MW-49 Diff		Nov. '05	0.010 UD	0.550 D	0.020 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-49 (Diffuse Bag)		Apr. '06	0.005 UD	0.290 D	0.011 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-49 Diff		Oct. '06	0.005 UD	0.560 D	0.010 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-49 (Diffusion Bag)		May. '07	0.005 UD	0.640 D	0.010 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-49 Dup (MW-80)		May. '07	0.010 UD	0.630 D	0.0088 JD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-49		Oct. '07	0.001 U	0.021	0.00042 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00053 J
MW-49		Apr. '08	0.0018	0.880 D	0.036	0.001 U	0.00028 J	0.0019	0.00024 J	0.001 U	0.0012
MW-49 DUP (DUP-430)		Apr. '08	0.078	1.3 D	0.055	0.00019 J	0.00047 J	0.0031	0.00040 J	0.001 U	0.0017
MW-49		Sep. '08	0.005 UD	0.660 D	0.016 D	0.005 UD	0.005 UD	0.00090 JD	0.003 JD	0.005 UD	0.00092 JD
MW-49 DUP (926/0810039-01)		Sep. '08	0.005 UD	NA	0.019 D	0.005 UD	NA	0.00073 JD	0.005 UD	0.005 UD	0.00087 JD
MW-49		May. '09	0.010 D	1.2 D	0.059 D	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-49		Oct. '09	0.014	1.2 D	0.110	0.001 U	0.00055 J	0.0037	0.00034 J	0.001 U	0.0021
MW-49		**Apr. '10**	**0.010 UD**	**1.15 D**	**0.453 XD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-49		**Oct. '10**	**0.010 UD**	**0.503 D**	**0.104 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-50	PRB Upper	Mar. '05	0.001 U	0.0071	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-50 Diff		Nov. '05	0.001 U	0.0017	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-50 (Diffuse Bag)		Apr. '06	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-50 Diff		Oct. '06	0.001 U	0.0018	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-50 (Diffusion Bag)		May. '07	0.001 U	0.0017	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00030 J
MW-50		Oct. '07	0.005 UD	0.300 D	0.011 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.0019 JD
MW-50		Apr. '08	0.00077 J	0.044	0.00032 J	0.001 U	0.001 U	0.00018 J	0.001 U	0.001 U	0.00042 J
MW-50		Sep. '08	0.001 U	0.110	0.00090 J	0.001 U	0.001 U	0.00028 J	0.00077 J	0.001 U	0.00065 J
MW-50		May. '09	0.002	0.084	0.00069 J	0.001 U	0.001 U	0.001 U	0.00040 J	0.001 U	0.00066 J
MW-50		Oct. '09	0.0029	0.070	0.00089 J	0.001 U	0.001 U	0.00026 J	0.00044 J	0.001 U	0.0011
MW-50		**Apr. '10**	**0.191**	**0.0175**	**0.000779 J**	**0.001 U**	**0.001 U**	**0.001 U**	**0.00097 J**	**0.001 U**	**0.00092 J**
MW-50		**Oct. '10**	**0.005 U**	**0.236 D**	**0.00855 D**	**0.005 U**	**0.005 U**	**0.005 U**	**0.005 U**	**0.005 U**	**0.00105 JD**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-51	Upper	Nov. '03	0.026	0.043	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-51		Mar. '05	0.0074	0.0095	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-51		Nov. '05	0.026	0.041	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-51		Mar. '06	0.089	0.120	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-51		Oct. '06	0.180	0.150	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-51		Apr. '07	2.3 D	0.760 D	0.0011 J	0.0038	0.00015 J	0.0037	0.001 U	0.00036 J	0.00025 J
MW-51		Oct. '07	0.310 D	0.180	0.002 U	0.00062 J	0.001 U	0.00081 J	0.001 U	0.001 U	0.001 U
MW-51		Apr. '08	1.6 D	0.530 D	0.0032 JD	0.0026 JD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-51		Sep. '08	3.1 D	0.680 D	0.040 UD	0.0072 JD	0.020 UD	0.0046 JD	0.020 UD	0.020 UD	0.020 UD
MW-51		May. '09	2.4 D	0.610 D	0.120 D	0.0042 JD	0.025 UD	0.025 UD	0.0074 JD	0.025 UD	0.0043 JD
MW-51		Oct. '09	0.250 D	0.140	0.002 U	0.00065 J	0.001 U	0.00080 J	0.001 U	0.001 U	0.001 U
MW-51		**Apr. '10**	**1.86 D**	**0.621 D**	**0.00272 JD**	**0.00242 JD**	**0.010 UD**	**0.00332 JD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-51		**Oct. '10**	**0.627 D**	**0.171 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-52	Lower	Nov. '03	0.300 D	0.390 D	0.010 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-52		Mar. '05	0.750 D	0.600 D	0.058 D	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-52		Nov. '05	0.540 D	0.450 D	0.049 D	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-52 DUP		Nov. '05	0.520 D	0.430 D	0.047 D	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-52		Mar. '06	0.170 D	0.170 D	0.0052 D	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-52		Oct. '06	0.190 D	0.210 D	0.0057 D	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-52		Apr. '07	0.270 D	0.230 D	0.011 JD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD	0.010 UD
MW-52		Oct. '07	0.210 D	0.180 D	0.0012 JD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-52		Apr. '08	0.420 D	0.250 D	0.002 JD	0.00059 JD	0.004 UD	0.004 UD	0.004 UD	0.004 UD	0.004 UD
MW-52		Sep. '08	0.580 D	0.300 D	0.005 JD	0.00063 JD	0.005 UD	0.00092 JD	0.005 UD	0.005 UD	0.005 UD
MW-52		May. '09	0.820 D	0.460 D	0.037 D	0.010 UD	0.010 UD	0.0016 JD	0.010 UD	0.010 UD	0.010 UD
MW-52		Oct. '09	0.670 D	0.360 D	0.0044 JD	0.0025 JD	0.005 UD	0.0030 JD	0.0014 JD	0.005 UD	0.0013 JD
MW-52 DUP (DUP102909)		Oct. '09	0.770 D	0.400 D	0.0037 JD	0.0018 JD	0.005 UD	0.0021 JD	0.005 UD	0.005 UD	0.005 UD
MW-52		**Apr. '10**	**1.08 D**	**0.461 D**	**0.0027 JD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**
MW-52		**Oct. '10**	**0.533 D**	**0.283 D**	**0.019 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.00190 U**	**0.010 UD**	**0.010 UD**
MW-53	Upper	Nov. '03	0.0033	0.0082	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-53		Mar. '05	0.0047	0.017	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-53		Nov. '05	0.140 D	0.280 D	0.067 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-53		Mar. '06	0.090	0.150	0.0042	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-53		Oct. '06	0.078	0.051	0.0047	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-53		Apr. '07	0.250 D	0.310 D	0.150	0.00034 J	0.001 U	0.0012	0.001 U	0.001 U	0.001 U
MW-53		Oct. '07	0.170 D	0.130 D	0.0069 D	0.00099 JD	0.002 UD	0.00055 JD	0.002 UD	0.002 UD	0.002 UD
MW-53		Apr. '08	0.400 D	0.470 D	0.083 D	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD
MW-53		Sep. '08	0.180 D	0.130 D	0.0093 D	0.002 UD	0.002 UD	0.00028 JD	0.002 UD	0.002 UD	0.002 UD
MW-53		**Apr. '10**	**0.0262**	**0.0311**	**0.000628 J**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**
									0		

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
MW-54	Lower	Nov. '03	0.020 D	0.120 D	0.0049 D	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-54		Mar. '05	0.017	0.089	0.0032	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-54		Nov. '05	0.028	0.120	0.0054	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-54		Mar. '06	0.029	0.110	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-54		Oct. '06	0.050	0.140	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
MW-54		Apr. '07	0.056	0.140	0.00074 J	0.001 U	0.001 U	0.00015 J	0.001 U	0.001 U	0.001 U
MW-54		Oct. '07	0.042	0.120	0.00073 J	0.001 U	0.001 U	0.00028 J	0.001 U	0.001 U	0.001 U
MW-54		Apr. '08	0.090 D	0.170 D	0.004 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-54		Sep. '08	0.091 D	0.170 D	0.0022 JD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD	0.002 UD
MW-54		**Apr. '10**	**0.074 D**	**0.152 D**	**0.0161 D**	**0.002 UD**	**0.002 UD**	**0.002 UD**	**0.002 UD**	**0.002 UD**	**0.002 UD**
RT-1	Upper	Jan. '93	0.09	NA	U	U	U	U	U	U	U
RT-1 DUP		Jan. '93	0.095	NA	U	U	U	U	U	U	U
RT-1		Oct. '00	0.14	0.0026 J	U	U	U	U	U	U	U
RT-1		Nov. '03	0.190	0.060	0.0019 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
RT-1		Mar. '06	0.160 D	NA	0.004 UD	0.002 UD	NA	0.002 UD	0.002 UD	0.002 UD	0.002 UD
RT-1		Apr. '08	0.150	NA	0.0022	0.001 U	NA	0.00073 J	0.001 U	0.001 U	0.001 U
RT-1		Sep. '08	0.190	NA	0.0031	0.001 U	NA	0.0014	0.00026 J	0.001 U	0.001 U
RT-1		May. '09	0.130	0.044	0.0022	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U
RT-1		Oct. '09	0.180	NA	0.0036	0.001 U	NA	0.0015	0.001 U	0.001 U	0.001 U
RT-1		**Apr. '10**	**0.224 D**	**0.0674**	**0.00331**	**0.001 U**	**0.001 U**	**0.00193**	**0.001 U**	**0.001 U**	**0.001 U**
RT-2	Upper	Jan. '93	63 D	NA	UD	0 UD	UD	UD	UD	UD	UD
RT-2		Oct. '00	8.7 D	3.2 D	0.071	0.018	UD	0.015	0.0035 J	0.0018 J	UD
RT-2		Nov. '03	9.6 D	20 D	2.9 D	0.100 UD	0.100 UD	0.090 JD	0.100 UD	0.100 UD	0.100 UD
RT-2		Mar. '06	46 D	NA	1.1 D	0.500 UD	NA	0.500 UD	0.500 UD	0.500 UD	0.500 UD
RT-2		Oct. '06	19 D	NA	0.400 UD	0.200 UD	NA	0.200 UD	0.200 UD	0.200 UD	0.200 UD
RT-2 DUP (MWRT-AC)		Oct. '06	18 D	NA	0.400 UD	0.200 UD	NA	0.200 UD	0.200 UD	0.200 UD	0.200 UD
RT-2		Apr. '07	8.5 D	NA	0.240 JD	0.200 UD	NA	0.200 UD	0.200 UD	0.200 UD	0.200 UD
RT-2		Oct. '07	28 D	NA	1.0 D	0.110 JD	NA	0.069 JD	0.500 UD	0.500 UD	0.500 UD
RT-2		Apr. '08	7.0 D	NA	0.280 D	0.0097 JD	NA	0.027 JD	0.050 UD	0.050 UD	0.050 UD
RT-2		Sep. '08	12 D	NA	0.370 D	0.014 JD	NA	0.048 JD	0.050 UD	0.050 UD	0.050 UD
RT-2		May. '09	14 D	11 D	0.370 D	0.018 JD	0.100 UD	0.036 JD	0.100 UD	0.100 UD	0.100 UD
RT-2		Oct. '09	18 D	NA	0.330 D	0.026 JD	NA	0.054 JD	0.100 UD	0.100 UD	0.100 UD
RT-2		**Apr. '10**	**15.3 D**	**27.4 D**	**0.657 D**	**0.0445 JD**	**0.250 UD**	**0.0846 JD**	**0.0594 JD**	**0.250 UD**	**0.250 UD**
RT-3	Upper	Jan. '93	130 D	NA	UD	0.45 JD	UD	UD	0.11 JD	UD	UD
RT-3		Oct. '00	38 D	16 D	0.62 D	0.2 D	UD	0.15 D	0.38 D	0.014 JD	UD
RT-3		Nov. '03	11 D	22 D	4.7 D	0.200 UD	0.200 UD	0.200 UD	0.230 D	0.200 UD	0.200 UD
RT-3		Mar. '06	12 D	NA	0.630 D	0.100 UD	NA	0.100 UD	1.7 D	0.100 UD	0.100 UD
RT-3		Apr. '08	20 D	12 D	0.600 D	0.032 JD	0.200 UD	0.200 UD	0.200 UD	0.200 UD	0.200 UD

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl Chloride (mg/L)	Tetrachloro-ethene (mg/L)	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	Toluene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
		USEPA MCL*	0.005	0.07	0.002	0.005	0.005	0.007	1	0.005	0.005
RT-4	Upper	Jan. '93	0.22 D	NA	0.44 D	UD	UD	UD	UD	UD	UD
RT-4		Oct. '00	0.13 D	2.5 D	0.2 D	UD	UD	UD	UD	UD	UD
RT-4		Nov. '03	1.2 D	9.5 D	1.1 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
RT-4		Mar. '06	1.2 D	NA	0.690 D	0.100 UD	NA	0.100 UD	0.100 UD	0.100 UD	0.100 UD
RT-4		Oct. '06	0.620 D	NA	0.540 D	0.050 UD	NA	0.050 UD	0.050 UD	0.050 UD	0.050 UD
RT-4		Apr. '07	0.570 D	NA	0.600 D	0.050 UD	NA	0.027 JD	0.050 UD	0.050 UD	0.050 UD
RT-4		Oct. '07	0.460 D	NA	0.620 D	0.050 UD	NA	0.015 JD	0.050 UD	0.050 UD	0.050 UD
RT-4		Apr. '08	0.580 D	NA	0.100 D	0.025 UD	NA	0.017 JD	0.025 UD	0.025 UD	0.025 UD
RT-4		Sep. '08	0.500 D	NA	0.520 D	0.025 UD	NA	0.019 JD	0.025 UD	0.025 UD	0.025 UD
RT-4		May. '09	0.210 D	3.9 D	0.280 D	0.002 UD	0.002 UD	0.0075 D	0.00029 JD	0.002 UD	0.00041 JD
RT-4		Oct. '09	0.300 D	NA	0.420 D	0.025 UD	NA	0.010 JD	0.025 UD	0.025 UD	0.0032 JD
RT-4		Apr. '10	0.503 D	5.42 D	0.752 XD	0.050 U	0.050 U	0.050 U	0.050 UD	0.050 U	0.050 U
RT-5	Upper	Jan. '93	2.6 D	NA	UD	UD	UD	UD	UD	UD	UD
RT-5		Oct. '98	10 D	6.1 D	0.18 JD	UD	UD	UD	UD	UD	UD
RT-5		Oct. '00	0.44 D	0.92 D	0.012 JD	UD	UD	UD	UD	UD	UD
RT-5		Nov. '03	7.9 D	5.6 D	0.270 D	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD	0.100 UD
RT-5		Mar. '06	2.6 D	NA	0.071 D	0.025 UD	NA	0.025 UD	0.025 UD	0.025 UD	0.025 UD
RT-5		Oct. '06	1.6 D	NA	0.160 D	0.020 UD	NA	0.020 UD	0.020 UD	0.020 UD	0.020 UD
RT-5		Apr. '07	1.7 D	NA	0.230 D	0.0043 JD	NA	0.012 JD	0.020 UD	0.020 UD	0.020 UD
RT-5 DUP (RT-KK)		Apr. '07	1.6 D	NA	0.190 D	0.0038 JD	NA	0.010 JD	0.020 UD	0.020 UD	0.020 UD
RT-5		Oct. '07	0.950 D	NA	0.062 D	0.025 UD	NA	0.0073 JD	0.025 UD	0.025 UD	0.025 UD
RT-5		Apr. '08	0.590 D	NA	0.020 D	0.0018 JD	NA	0.0044 JD	0.005 UD	0.005 UD	0.005 UD
RT-5		Sep. '08	0.330 D	NA	0.061 D	0.00054 JD	NA	0.003 D	0.002 UD	0.002 UD	0.002 UD
RT-5		May. '09	0.350 D	0.580 D	0.049 D	0.00083 JD	0.005 UD	0.0028 JD	0.005 UD	0.005 UD	0.005 UD
RT-5		Oct. '09	0.650 D	NA	0.170 D	0.0017 JD	NA	0.0040 JD	0.010 UD	0.010 UD	0.003 JD
RT-5		**Apr. '10**	**0.338 D**	**0.468 D**	**0.0448 D**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**	**0.010 UD**

* Shaded cell indicates value exceeded the corresponding USEPA MCL.
Bolded values are from the current reporting period.
A blank cell or a "NA" indicate the parameter was not a target compound or data are not available.
U = Not Detected
D = Sample was diluted
J = Sample was estimated
B = The constituent was also detected in a blank
E = Exceeds the highest concentration level on the standard curve
X = Potential positive bias
Q = RPD and/or percent recovery failed in the associated blank spike and/or MSD.
Y= Potential negative bias
NS = Not Sampled

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-1	Upper	Aug. '91	U	0.073 J	NA	U	U	NA	0.046 J	0.0053 JBX	NA	0.054 J
MW-1		Dec. '91	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-1		Jan. '93	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-1		Oct. '98	U	UD	NA	UD	UD	NA	0.1 JD	UD	NA	UD
MW-1		Oct. '00	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-1		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	Upper	Aug. '91	U	U	NA	0.97 JE	U	NA	0.25 JE	0.19 J	NA	0.69 JE
MW-2		Dec. '91	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-2		Jan. '93	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-2		Oct. '98	UD	NA	NA	UD	UD	NA	0.38 JD	UD	NA	1.2 D
MW-3	Upper	Aug. '91	0.0046 J	U	NA	0.0049 JBX	U	NA	U	U	NA	U
MW-3		Dec. '91	0.19 JD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-3		Jan. '93	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-3		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	Upper	Aug. '91	U	U	NA	0.0072 JBX	U	NA	0.012	0.003 JBX	NA	0.034
MW-4		Dec. '91	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-4		Jan. '93	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-4		Oct. '98	U	U	NA	U	0.0057 J	NA	0.014	U	NA	0.034
MW-4		Oct. '00	UD	UD	NA	UD	UD	NA	UD	UD	NA	UD
MW-4		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 DUP (425)		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DW-4		Oct. '98	U	U	NA	U	U	NA	U	0.0062 J	NA	0.0028 J
MW-5	Upper	Aug. '91	U	U		0.0068 JBX	U	NA	0.0069 J	U	NA	0.023
MW-5		Dec. '91	UD	UD		UD	UD	NA	UD	UD	NA	UD
MW-5		Jan. '93	UD	UD		UD	UD	NA	UD	UD	NA	UD
MW-5		Oct. '98	U			UD	UD	NA	UD	UD	NA	UD
MW-5		Oct. '00	U			UD	UD	NA	U	U	NA	U
MW-5		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		May '04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		Mar. '05	0.200 UD	0.200 UD	0.200 UD	2 UD	0.200 UD	0.400 UD	0.200 UD	0.400 UD	0.200 UD	0.200 UD
MW-5		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		Apr. '07	0.010 UD	0.010 UD	0.010 UD	0.100 UD	0.010 UD	0.020 UD	0.010 UD	0.010 UD	0.0015 JD	0.010 UD
MW-5		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-6	Upper	Aug. '91	U	U		0.078	U		0.035	0.009 JBX		0.17
MW-6		Dec. '91	UD	UD		UD	UD		UD	UD		UD
MW-6		Jan. '93	UD	UD		UD	UD		UD	UD		UD
MW-6		Oct. '98	U	U		0.03 J	0.002 J		0.013	U		0.059
MW-6		Oct. '00	U	U		U	U		U	U		U
MW-6		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	Upper	Aug. '91	U	U		0.02 J	U		U	U		U
MW-7 DUP		Aug. '91	U	U		U	U		U	U		U
MW-7		Dec. '91	U	U		U	U		U	U		U
MW-7		Jan. '93	U	U		U	U		U	U		U
MW-7		Oct. '00	U	U		U	U		U	U		U
MW-7		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-7 DUP 040910		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-8	Lower	Dec. '91	UD	UD		UD	UD		UD	UD		UD
MW-8		Jan. '93	U	U		U	U		U	U		U
MW-8		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-9	Lower	Dec. '91	U	U		U	U		U	U		U
MW-9		Jan. '93	U	U		U	U		U	U		U
MW-9 DUP		Jan. '93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-10	Lower	Aug. '91	U	U		U	U		U	U		U
MW-10		Jan. '93	UD	UD		UD	UD		UD	UD		UD
MW-10		Oct. '98	U	U		U	U		U	U		U
MW-10		Oct. '00										
MW-10		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Mar. '05	0.001 U	0.001 U	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U
MW-10		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-11	Upper	Dec. '91	U	U		U	U		U	U		U
MW-11		Jan. '93	UD	UD		UD	UD		UD	UD		UD
MW-11		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-12	Upper	Dec. '91	U	U		U	U		U	U		U
MW-12		Jan. '93	U	U		U	U		U	U		U
MW-12		Oct. '98	U	U		U	U		U	U		U
MW-12		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12 Dup		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-13	Upper	Dec. '91	U	U		U	U		U	U		U
MW-13		Jan. '93	U	U		0.016	U		U	U		0.0013 JB
MW-13		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-14	Upper	Dec. '91	UD	UD		UD	UD		UD	UD		UD
MW-14		Jan. '93	UD	UD		UD	UD		UD	UD		UD
MW-14		Oct. '98	UD	UD		UD	UD		UD	UD		UD
MW-14		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Mar. '05	0.050 UD	0.050 UD	0.050 UD	0.500 UD	0.050 UD	0.100 UD	0.050 UD	0.100 UD	0.050 UD	0.050 UD
MW-14		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14 Dup (MW-63)		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14 DUP (DUP052009)		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		Nov. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-14		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-14 DUP (101510)		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-15	Upper	Dec. '91	UD	UD		UD	UD		UD	UD		UD
MW-15		Jan. '93	U	U		U	U		U	U		U
MW-15		Oct. '98	UD	UD		UD	UD		UD	UD		UD
MW-15		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	Upper	Dec. '91	UD	UD		UD	UD		UD	UD		UD
MW-16		Jan. '93	U	U		U	U		U	U		U
MW-16		Oct. '98	UD	UD		UD	UD		UD	UD		UD
MW-16		Oct. '00	UD	UD		UD	UD		UD	UD		UD
MW-16 DUP		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-17	Lower	Jan. '93	UD	UD		UD	UD		UD	UD		UD
MW-17		Feb. '93	UD	UD		UD	UD		UD	UD		UD
MW-17 DUP		Feb. '93	UD	UD		UD	UD		UD	UD		UD
MW-17		Oct. '98	UD	UD		UD	UD		UD	UD		UD
MW-17		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17 DUP		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17 DUP (MW-B)		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	Lower	Jan. '93	U	U	U	U	U	U	U	U		U
MW-19		Feb. '93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	Upper	Jan. '93	U	U	U	U	U		U	U		U
MW-20		Feb. '93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	Upper	Jan. '93	U	U		U	U		U	U		U
MW-21		Feb. '93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-23	Upper	Jan. '93	UD	UD		UD	UD		UD	UD		UD
MW-23		Feb. '93	UD	UD		UD	UD		UD	UD		UD
MW-23		Oct. '98	UD	0.043 D		UD	UD		UD	UD		UD
MW-23		Oct. '00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23		Oct. '06	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD	0.100 UD	0.100 UD
MW-23		Apr. '07	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD	0.047 JD	0.100 UD
MW-23		Oct. '07	0.050 UD	0.012 JD	0.050 UD	0.140 JD	0.050 UD	0.100 UD	0.050 UD	0.042 JD	0.040 JD	0.050 UD
MW-23 Dup (RT-9)		Oct. '07	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.140 JD	0.045 JD	0.100 UD
MW-23		Apr. '08	0.040 UD	0.040 UD	0.040 UD	0.400 UD	0.040 UD	0.080 UD	0.040 UD	0.065 JD	0.030 JD	0.040 UD
MW-23		Sep. '08	0.012 UD	0.0067 JD	0.012 UD	0.120 UD	0.012 UD	0.025 UD	0.012 UD	0.070 BD	0.021 D	0.012 UD
MW-23 DUP (926/0810039-07)		Sep. '08	0.012 UD	0.0054 JD	0.012 UD	0.120 UD	0.012 UD	0.025 UD	0.012 UD	0.079 BD	0.015 D	0.012 UD
MW-23		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23		Oct. '09	0.025 UD	0.0060 JD	0.025 UD	0.250 UD	0.025 UD	0.050 UD	0.025 UD	0.021 JBD	0.018 JD	0.025 UD
MW-23		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-24	Upper	Jan. '93	UD	UD		UD	UD		3.3 JD	UD		1.2 JD
MW-24		Feb. '93	UD	UD		UD	UD		UD	UD		UD
MW-25	Upper	Jan. '93	UD	UD		UD	UD		UD	1.7 JD		UD
MW-25		Feb. '93	UD	UD		UD	UD		UD	UD		UD
MW-25		Oct. '00	0.22	U		0.029	U		0.033	0.83		0.13
MW-25		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-25		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-25		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-25		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-41	Upper	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Mar. '05	0.020 UD	0.012 JD	0.020 UD	0.200 UD	0.020 UD	0.040 UD	0.020 UD	0.040 UD	0.020 UD	0.020 UD
MW-41		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-41		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-42	Lower	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Mar. '05	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD	0.055 JD	0.100 UD
MW-42		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-42		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-43	PRB Upper	Mar. '05	0.001 U	0.0022	0.001 U	0.0072 J	0.001 U	0.0016 J	0.001 U	0.002 U	0.001 U	0.001 U
MW-43 Diff		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43 (Diffuse Bag)		Apr. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43S (Std. Low Purge)		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43D		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43 Diff		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43 Dup (MW-AC)		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43 (Diffusion Bag)		May. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-43		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-44	PRB Lower	Mar. '05	0.001 U	0.0051	0.001 U	0.010 U	0.001 U	0.001 J	0.001 U	0.002 U	0.001 U	0.001 U
MW-44 DUP		Mar. '05	0.001 U	0.0044	0.001 U	0.010 U	0.001 U	0.00081 J	0.001 U	0.002 U	0.001 U	0.001 U
MW-44		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44 Diff		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44 (Diffuse Bag)		Apr. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44 DUP (MW-F)		Apr. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44S (Std. Low Purge)		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44D		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44 Diff		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44 (Diffuse Bag)		May. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-44		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-44		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-45	Upper	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Mar. '05	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD	0.036 JD	0.100 UD
MW-45		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-45		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-45		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-46	Lower	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Mar. '05	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD	0.100 UD	0.100 UD
MW-46		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Jun. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46 DUP (DUP-923)		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-46		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-46 DUP 040710		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-46		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-47	Upper	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Mar. '05	0.001 U	0.001 U	0.001 U	0.0057 J	0.00060 J	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U
MW-47		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47 DUP (MW-JT)		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		Nov. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-47		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-47		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-48	Lower	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Mar. '05	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.005 UD	0.010 UD	0.005 UD	0.010 UD	0.0015 JD	0.005 UD
MW-48		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		Nov. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-48		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-48		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-49	PRB Lower	Mar. '05	0.005 UD	0.005 UD	0.005 UD	0.050 UD	0.005 UD	0.010 UD	0.005 UD	0.010 UD	0.005 UD	0.005 UD
MW-49 Diff		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49 (Diffuse Bag)		Apr. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49 Diff		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49 (Diffusion Bag)		May. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49 Dup (MW-80)		May. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49 DUP (DUP-430)		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49 DUP (926/0810039-01)		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-49		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-49		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-50	PRB Upper	Mar. '05	0.001 U	0.001 U	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U
MW-50 Diff		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50 (Diffuse Bag)		Apr. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50 Diff		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50 (Diffusion Bag)		May. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-50		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-50		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-51	Upper	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Mar. '05	0.001 U	0.001 U	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U
MW-51		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-51		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-51		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-52	Lower	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Mar. '05	0.010 UD	0.010 UD	0.010 UD	0.100 UD	0.010 UD	0.020 UD	0.010 UD	0.020 UD	0.010 UD	0.010 UD
MW-52		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52 DUP		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52 DUP (DUP102909)		Oct. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-52		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-52		**Oct. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-53	Upper	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Mar. '05	0.001 U	0.001 U	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U
MW-53		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-53		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
MW-54	Lower	Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Mar. '05	0.001 U	0.001 U	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.00042 J	0.001 U
MW-54		Nov. '05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Mar. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Oct. '06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Apr. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Oct. '07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		Sep. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-54		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
RT-1	Upper	Jan. '93	U	U		U	U		U	U		U
RT-1 DUP		Jan. '93	U	U		U	U		U	U		U
RT-1		Oct. '00	U	U		U	U		U	U		U
RT-1		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-1		Mar. '06	0.002 UD	0.002 UD	0.002 UD	0.020 UD	0.002 UD	0.004 UD	0.002 UD	0.004 UD	0.002 UD	0.002 UD
RT-1		Apr. '08	0.001 U	0.00060 J	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.00064 J	0.001 U
RT-1		Sep. '08	0.001 U	0.001	0.001 U	0.010 U	0.001 U	0.002 U	0.001 U	0.002 U	0.00066 J	0.001 U
RT-1		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-1		Oct. '09	0.001 U	0.0014	0.001 U	0.0019 J	0.001 U	0.002 U	0.001 U	0.002 U	0.00084 J	0.001 U
RT-1		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
RT-2	Upper	Jan. '93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-2		Oct. '00	UD	UD		UD	UD		UD	UD		UD
RT-2		Nov. '03	UD	0.0065	U	0.043	UD		UD	UD		0.015 B
RT-2		Mar. '06	0.500 UD	0.500 UD	0.500 UD	5 UD	0.500 UD	1 UD	0.500 UD	1 UD	0.500 UD	0.500 UD
RT-2		Oct. '06	0.200 UD	0.200 UD	0.200 UD	2 UD	0.200 UD	0.400 UD	0.200 UD	0.400 UD	0.200 UD	0.200 UD
RT-2 DUP (MWRT-AC)		Oct. '06	0.200 UD	0.200 UD	0.200 UD	2 UD	0.200 UD	0.400 UD	0.200 UD	0.400 UD	0.200 UD	0.200 UD
RT-2		Apr. '07	0.200 UD	0.200 UD	0.200 UD	2 UD	0.200 UD	0.400 UD	0.200 UD	0.400 UD	0.200 UD	0.200 UD
RT-2		Oct. '07	0.500 UD	0.500 UD	0.500 UD	5 UD	0.500 UD	1 UD	0.500 UD	0.780 JD	0.500 UD	0.500 UD
RT-2		Apr. '08	0.050 UD	0.012 JD	0.050 UD	0.500 UD	0.050 UD	0.100 UD	0.050 UD	0.099 JD	0.050 UD	0.050 UD
RT-2		Sep. '08	0.050 UD	0.030 JD	0.050 UD	0.500 UD	0.050 UD	0.100 UD	0.050 UD	0.240 BD	0.024 JD	0.050 UD
RT-2		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-2		Oct. '09	0.100 UD	0.028 JD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.089 JD	0.034 JD	0.100 UD
RT-2		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
RT-3	Upper	Jan. '93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-3		Oct. '00	0.1 D	UD	NA	UD	UD	NA	UD	UD	NA	0.46 D
RT-3		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-3		Mar. '06	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD	0.100 UD	0.100 UD
RT-3		Apr. '08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-2

VOCS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Well Type	Sample Date	1,1,1-Trichloro-ethane (mg/L)	1,1-Dichloro-ethane (mg/L)	1,2-Dichloro-propane (mg/L)	Acetone (mg/L)	Carbon disulfide (mg/L)	Chloroethane (mg/L)	Ethyl- benzene (mg/L)	Methylene chloride (mg/L)	Trans-1,2-Dichloro-ethene (mg/L)	Xylenes (total) (mg/L)
		USEPA MCL*	0.2	NA	0.005	NA	NA		0.7	NA	0.1	10
RT-4	Upper	Jan. '93	UD	UD		UD	UD		UD	UD		UD
RT-4		Oct. '00	UD	UD		UD	UD		UD	UD		UD
RT-4		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-4		Mar. '06	0.100 UD	0.100 UD	0.100 UD	1 UD	0.100 UD	0.200 UD	0.100 UD	0.200 UD\	0.11 D	0.100 UD
RT-4		Oct. '06	0.050 UD	0.050 UD	0.050 UD	0.500 UD	0.050 UD	0.100 UD	0.050 UD	0.100 UD	0.063 D	0.050 UD
RT-4		Apr. '07	0.050 UD	0.050 UD	0.050 UD	0.500 UD	0.050 UD	0.100 UD	0.050 UD	0.100 UD	0.057 D	0.050 UD
RT-4		Oct. '07	0.050 UD	0.050 UD	0.050 UD	0.150 JD	0.050 UD	0.100 UD	0.050 UD	0.042 JD	0.080 D	0.050 UD
RT-4		Apr. '08	0.025 UD	0.0068 JD	0.025 UD	0.032 JD	0.025 UD	0.050 UD	0.025 UD	0.140 BD	0.110 D	0.025 UD
RT-4		Sep. '08	0.025 UD	0.025 UD	0.025 UD	0.250 UD	0.025 UD	0.050 UD	0.025 UD	0.048 JBD	0.120 D	0.025 UD
RT-4		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-4		Oct. '09	0.025 UD	0.0053 JD	0.025 UD	0.250 UD	0.025 UD	0.050 UD	0.025 UD	0.020 JD	0.110 D	0.025 UD
RT-4		Apr. '10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-5	Upper	Jan. '93	UD	UD		UD	UD		UD	UD		UD
RT-5		Oct. '98	UD	UD		UD	UD		UD	UD		UD
RT-5		Oct. '00	UD	UD		UD	UD		UD	UD		UD
RT-5		Nov. '03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-5		Mar. '06	0.025 UD	0.025 UD	0.025 UD	0.25 UD	0.025 UD	0.050 UD	0.025 UD	0.050 UD	0.050 D	0.025 UD
RT-5		Oct. '06	0.020 UD	0.020 UD	0.020 UD	0.200 UD	0.020 UD	0.040 UD	0.020 UD	0.040 UD	0.020 UD	0.020 UD
RT-5		Apr. '07	0.020 UD	0.0068 JD	0.020 UD	0.200 UD	0.020 UD	0.040 UD	0.020 UD	0.0094 JD	0.0068 JD	0.020 UD
RT-5 DUP (RT-KK)		Apr. '07	0.020 UD	0.0064 JD	0.020 UD	0.200 UD	0.020 UD	0.040 UD	0.020 UD	0.040 UD	0.011 JD	0.020 UD
RT-5		Oct. '07	0.025 UD	0.0053 JD	0.025 UD	0.250 UD	0.025 UD	0.050 UD	0.025 UD	0.017 JD	0.0065 JD	0.025 UD
RT-5		Apr. '08	0.005 UD	0.0031 JD	0.005 UD	0.050 UD	0.005 UD	0.010 UD	0.005 UD	0.024 BD	0.055 JD	0.005 UD
RT-5		Sep. '08	0.002 UD	0.0027 D	0.002 UD	0.020 UD	0.002 UD	0.004 UD	0.002 UD	0.010 BD	0.0037 D	0.002 UD
RT-5		May. '09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RT-5		Oct. '09	0.010 UD	0.0062 JD	0.010 UD	0.100 UD	0.010 UD	0.02 UD	0.010 UD	0.0065 JD	0.0045 JD	0.0029 JD
RT-5		**Apr. '10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

* Shaded cell indicates value exceeded the corresponding USEPA MCL.
Bolded values are from the current reporting period.
A blank cell or a "NA" indicate the parameter was not a target compound or d:
are not available.
U = Not Detected
D = Sample was diluted
J = Sample was estimated
B = The constituent was also detected in a blank
E = Exceeds the highest concentration level on the standard curve
X = Potential positive bias
Q = RPD and/or percent recovery failed in the associated blank spike and/or
Y= Potential negative bias
NS = Not Sampled

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
USEPA MCL*			NA	NA	NA	NA	NA	0.07	0.006	NA	0.001	NA	
MW-1	Aug '91	Upper	0.0013 JBX	U	U	U	U	0.0021 J	0.0011 J	U	NA	NA	NA
MW-1	Oct '00		U	U	U	U	U	0.013	0.011	U	U	0.002 J	NA
MW-1	Nov '03		NA	NA	NA	NA	NA	NA	0.001 J	NA	NA	NA	NA
MW-1	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-1	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-2	Aug '91	Upper	0.0011 JBX	0.001 J	0.0007 J	0.069	U	U	0.0052 J	0.034	NA	NA	NA
MW-3	Aug '91	Upper	0.0009 JBX	U	U	U	U	U	0.0016 J	U	NA	NA	NA
MW-3	Mar '06		NA	NA	NA	NA	NA	NA	0.0059 U	NA	NA	NA	NA
MW-4	Aug '91	Upper	0.0016 JBX	U	U	U	0.0012 J	U	0.001 J	U	NA	NA	NA
MW-4	Oct '00		U	U	U	U	U	U	U	U	U	U	NA
MW-4	Nov '03		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-4	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-4	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-4 DUP (425)	Apr '08		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-5	Aug '91	Upper	0.0010 JBX	U	U	U	0.0077 J	U	0.0011 J	U	NA	NA	NA
MW-5	Oct '00		U	U	U	0.0051	U	U	0.0022 J	0.014	U	0.002 J	NA
MW-5	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-5	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-5	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-5	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-5	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-5	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-5	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-5	Sep. '08		NA	NA	NA	NA	NA	NA	0.0012 J	NA	NA	NA	NA
MW-6	Aug '91	Upper	0.0009 JBX	U	U	0.0013 J	U	U	0.0071 J	0.0009 J	NA	NA	NA
MW-6	Oct '00		U	U	U	U	U	U	U	U	U	U	NA
MW-6	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-6	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-6	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
MW-7	Aug '91	Upper	0.0005 JBX	U	U	U	U	U	U	U	NA	NA	NA
MW-7 DUP	Aug '91		0.0012 JBX	U	U	U	U	U	0.0007 J	U	NA	NA	NA
MW-7	Oct '00		U	U	U	U	U	U	0.0065	U	U	U	NA
MW-7	Nov '03		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-7	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-7	Apr '08		NA	NA	NA	NA	NA	NA	0.0019 J	NA	NA	NA	NA
MW-8	Oct '00	Lower	U	U	U	U	U	U	U	U	U	U	NA
MW-8	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-8	Mar '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-8	Apr '08		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-9	Nov '03	Lower	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-9	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-9	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-10	Oct '00	Lower	U	U	U	U	U	U	U	U	U	U	NA
MW-10	Nov '03		NA	NA	NA	NA	NA	NA	0.0011 J	NA	NA	NA	NA
MW-10	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-10	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-10	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-10	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-10	Oct '07		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-10	Apr '08		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-10	Sep. '08		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-11	Oct '00	Upper	U	U	U	U	U	U	0.005 J	U	U	U	NA
MW-11	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-11	Mar '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-11	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-12	Oct '00	Upper	U	U	U	U	U	U	0.0073	U	U	U	NA
MW-12	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-12 DUP	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-12	Mar '06		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-12	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-13	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
MW-13	Nov '03		NA	NA	NA	NA	NA	NA	0.0012 J	NA	NA	NA	NA
MW-13	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-13	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
MW-14	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
MW-14	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-14	Nov '05		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-14	Mar '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-14	Oct '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-14	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-14	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-14 DUP (MW-63)	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-14	Apr '08		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-14	Sep. '08		NA	NA	NA	NA	NA	NA	0.0018 J	NA	NA	NA	NA
MW-15	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
MW-15	Nov '03		NA	NA	NA	NA	NA	NA	0.0056 U	NA	NA	NA	NA
MW-15	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-15	Apr '08		NA	NA	NA	NA	NA	NA	0.0056 U	NA	NA	NA	NA
MW-16	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
MW-16 DUP	Oct '00		U	U	U	U	U	U	U	U	U	U	NA
MW-16	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-16	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-16	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-17	Oct '00	Lower	U	U	U	U	U	U	U	U	U	U	NA
MW-17	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-17 DUP	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-17	Mar '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-17 DUP (MW-B)	Mar '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-17	Apr '08		NA	NA	NA	NA	NA	NA	0.0016 J	NA	NA	NA	NA
MW-20	Nov '03	Upper	NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-20	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-20	Apr '08		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-23	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
MW-23	Nov '03		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-23	Mar '06		NA	NA	NA	NA	NA	NA	0.0054 U	NA	NA	NA	NA
MW-23	Oct '06		NA	NA	NA	0.0051 U	NA	0.0051 U	0.0051 U	0.0051 U	0.020 U	NA	0.0051 U
MW-23	Apr '07		NA	NA	NA	0.0047 U	NA	0.011	0.0047 U	0.0047 U	0.019 U	NA	0.0047 U
MW-23	Oct '07		NA	NA	NA	0.005 U	NA	0.0028 J	0.005 U	0.005 U	0.020 U	NA	0.005 U
MW-23 Dup (RT-9)	Oct '07		NA	NA	NA	0.0049 U	NA	0.0026 J	0.0049 U	0.0049 U	0.020 U	NA	0.0049 U
MW-23	Apr '08		NA	NA	NA	0.0048 U	NA	0.00043 J	0.0048 U	0.0048 U	0.019 U	NA	0.0048 U
MW-23	Sep. '08		NA	NA	NA	0.005 U	NA	0.00051 J	0.0022 J	0.005 U	0.020 U	NA	0.005 U
MW-23 DUP (926/0810039-07)	Sep. '08		NA	NA	NA	0.0053 U	NA	0.00056 J	0.003 J	0.0053 U	0.021 U	NA	0.0053 U
MW-23	**Apr. '10**		**NA**	**NA**	**NA**	**0.00472 U**	**NA**	**0.0113**	**0.00283 J**	**0.00472 U**	**0.0189 U**	**NA**	**0.00472 U**

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
MW-25	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
MW-25	Nov '03		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-25	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-25	Apr '08		NA	NA	NA	NA	NA	NA	0.0022 J	NA	NA	NA	NA
MW-41	Nov '03	Upper	NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-41	Nov '05		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-41	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-41	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-41	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-41	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-41	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-41	Sep. '08		NA	NA	NA	NA	NA	NA	0.0027 J	NA	NA	NA	NA
MW-42	Nov '03	Lower	NA	NA	NA	NA	NA	NA	0.0014 J	NA	NA	NA	NA
MW-42	Nov '05		NA	NA	NA	NA	NA	NA	0.0056 U	NA	NA	NA	NA
MW-42	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-42	Oct '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-42	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-42	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-42	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-42	Sep. '08		NA	NA	NA	NA	NA	NA	0.0026 J	NA	NA	NA	NA
MW-43	Nov '05	Upper	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-43	Apr '06		NA	NA	NA	NA	NA	NA	0.0056 U	NA	NA	NA	NA
MW-43	Oct '06		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-43 DUP (MW-AC)	Oct '06		NA	NA	NA	NA	NA	NA	0.0054 U	NA	NA	NA	NA
MW-43	May '07		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-43	Oct '07		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-43	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-43	Sep. '08		NA	NA	NA	NA	NA	NA	0.0027 J	NA	NA	NA	NA
MW-44	Nov '05	Lower	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-44	Apr '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-44 DUP (MW-F)	Apr '06		NA	NA	NA	NA	NA	NA	2.7 J	NA	NA	NA	NA
MW-44	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-44	May '07		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-44	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-44	Apr '08		NA	NA	NA	NA	NA	NA	0.0014 J	NA	NA	NA	NA
MW-44	Sep. '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
MW-45	Nov '03	Upper	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-45	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-45	Mar '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-45	Oct '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-45	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-45	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-45	Apr '08		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-45	Sep. '08		NA	NA	NA	NA	NA	NA	0.0021 J	NA	NA	NA	NA
MW-46	Nov '03	Lower	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-46	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-46	Mar '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-46	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-46	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-46	Oct '07		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-46	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-46	Sep. '08		NA	NA	NA	NA	NA	NA	0.0023 J	NA	NA	NA	NA
MW-46 DUP (DUP-923)	Sep. '08		NA	NA	NA	NA	NA	NA	0.0028 J	NA	NA	NA	NA
MW-47	Nov '03	Upper	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-47	Nov '05		NA	NA	NA	NA	NA	NA	0.0054 U	NA	NA	NA	NA
MW-47	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-47	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-47	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-47 DUP (MW-JT)	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-47	Oct '07		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-47	Apr '08		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-47	Sep. '08		NA	NA	NA	NA	NA	NA	0.0032 J	NA	NA	NA	NA
MW-48	Nov '03	Lower	NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-48	Nov '05		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-48	Mar '06		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-48	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-48	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-48	Oct '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-48	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-48	Sep. '08		NA	NA	NA	NA	NA	NA	0.0013 J	NA	NA	NA	NA

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
MW-49	Nov '05	Lower	NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-49	Apr '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-49	Oct '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-49	May '07		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-49	Oct '07		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-49	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-49 DUP (DUP-430)	Apr '08		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-49	Sep. '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-49 DUP (926/0810039-01)	Sep. '08		NA	NA	NA	0.0046 U	NA	0.0046 U	0.0013 J	0.0046 U	0.018 U	NA	0.0046 U
MW-50	Nov '05	Upper	NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-50	Apr '06		NA	NA	NA	NA	NA	NA	0.0053 U	NA	NA	NA	NA
MW-50	Oct '06		NA	NA	NA	NA	NA	NA	0.0052 U	NA	NA	NA	NA
MW-50	May '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-50	Oct '07		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-50	Apr '08		NA	NA	NA	NA	NA	NA	0.0056 U	NA	NA	NA	NA
MW-50	Sep. '08		NA	NA	NA	NA	NA	NA	0.0019 J	NA	NA	NA	NA
MW-51	Nov '03	Upper	NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-51	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-51	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-51	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-51	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-51	Oct '07		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-51	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-51	Sep. '08		NA	NA	NA	NA	NA	NA	0.0018 J	NA	NA	NA	NA
MW-52	Nov '03	Lower	NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-52	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-52 DUP	Nov '05		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-52	Mar '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-52	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-52	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-52	Oct '07		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-52	Apr '08		NA	NA	NA	NA	NA	NA	0.0046 U	NA	NA	NA	NA
MW-52	Sep. '08		NA	NA	NA	NA	NA	NA	0.0031 J	NA	NA	NA	NA

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
MW-53	Nov '03	Upper	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-53	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-53	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-53	Oct '06		NA	NA	NA	NA	NA	NA	0.0051 U	NA	NA	NA	NA
MW-53	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-53	Oct '07		NA	NA	NA	NA	NA	NA	0.0049 U	NA	NA	NA	NA
MW-53	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA
MW-53	Sep. '08		NA	NA	NA	NA	NA	NA	0.0016 J	NA	NA	NA	NA
MW-54	Nov '03	Lower	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-54	Nov '05		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-54	Mar '06		NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA
MW-54	Oct '06		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
MW-54	Apr '07		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-54	Oct '07		NA	NA	NA	NA	NA	NA	0.0029 J	NA	NA	NA	NA
MW-54	Apr '08		NA	NA	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
MW-54	Sep. '08		NA	NA	NA	NA	NA	NA	0.0031 J	NA	NA	NA	NA
RT-1	Oct '00	Upper	U	U	U	U	U	U	U	U	U	U	NA
RT-1	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
RT-1	Mar '06		NA	NA	NA	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.020 U	NA	0.005 U
RT-1	Apr '08		NA	NA	NA	0.0049 U	NA	0.0049 U	0.0049 U	0.0049 U	0.020 U	NA	0.0049 U
RT-1	Sep. '08		NA	NA	NA	0.005 U	NA	0.005 U	0.0014 J	0.005 U	0.020 U	NA	0.005 U
RT-1	**Apr. '10**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0049 U**	**NA**	**NA**	**NA**	**NA**
RT-2	Oct '00	Upper	U	U	U	U	U	0.032	U	U	0.0064 J	U U	NA
RT-2	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
RT-2	Mar '06		NA	NA	NA	0.005 U	NA	0.023	0.005 U	0.005 U	0.020 U	NA	0.005 U
RT-2	Oct '06		NA	NA	NA	0.0052 U	NA	0.037	0.0052 U	0.0052 U	0.021 U	NA	0.0052 U
RT-2 DUP (MWRT-AC)	Oct '06		NA	NA	NA	0.0054 U	NA	0.036	0.0054 U	0.0054 U	0.022 U	NA	0.0054 U
RT-2	Apr '07		NA	NA	NA	0.00067 J	NA	0.030	0.0047 U	0.00058 J	0.0083 J	NA	0.0047 U
RT-2	Oct '07		NA	NA	NA	0.020	NA	0.039	0.0048 U	0.014	0.014 J	NA	0.0048 U
RT-2	Apr '08		NA	NA	NA	0.0049 U	NA	0.030	0.0049 U	0.0049 U	0.0053 J	NA	0.0049 U
RT-2	Sep. '08		NA	NA	NA	0.00095 J	NA	0.026	0.0028 J	0.005 U	0.0028 J	NA	0.005 U
RT-2	**Apr. '10**		**NA**	**NA**	**NA**	**0.00481 U**	**NA**	**0.0551**	**0.00294 J**	**0.00153 J**	**0.00759 J**	**NA**	**0.00481 U**
RT-3	Oct '00	Upper	U	U	U	0.0065	U	0.056	U	0.0029 J	0.018	U	NA
RT-3	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
RT-3	Mar '06		NA	NA	NA	0.005 U	NA	0.017	0.005 U	0.005 U	0.020 U	NA	0.005 U
RT-3	Apr '08		NA	NA	NA	NA	NA	NA	0.0048 U	NA	NA	NA	NA

TABLE 3-3

SVOCS DETECTED IN GROUNDWATER

Grenada Manufacturing
Grenada, Mississippi

Well Name	Sample Date	Well Type	Di-n-butyl phthalate (mg/L)	Fluorene (mg/L)	Phenan-threne (mg/L)	2-Methyl-naphthalene (mg/L)	Phenol (mg/L)	1,2,4-Trichloro-benzene (mg/L)	Bis (2-ethyl hexyl) phthalate (mg/L)	Naphthalene (mg/L)	Pentachloro-phenol (mg/L)	Diethyl-phthalate (mg/L)	1,2,4,5-Tetrachloroben zene (mg/L)
RT-4	Oct '00	Upper	U	U	U	U	U	0.0022 J	U	U	U	U	NA
RT-4	Nov '03		NA	NA	NA	NA	NA	NA	0.011	NA	NA	NA	NA
RT-4	Mar '06		NA	NA	NA	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.020 U	NA	0.005 U
RT-4	Oct '06		NA	NA	NA	0.0053 U	NA	0.0053 U	0.0053 U	0.0053 U	0.021 U	NA	0.0053 U
RT-4	Apr '07		NA	NA	NA	0.0047 U	NA	0.0014 J	0.0047 U	0.0047 U	0.019 U	NA	0.0047 U
RT-4	Oct '07		NA	NA	NA	0.0048 U	NA	0.0021 J	0.0048 U	0.0048 U	0.019 U	NA	0.0048 U
RT-4	Apr '08		NA	NA	NA	0.005 U	NA	0.0014 J	0.005 U	0.005 U	0.020 U	NA	0.005 U
RT-4	Sep. '08		NA	NA	NA	0.0056 U	NA	0.0051 J	0.0034 J	0.0056 U	0.022 U	NA	0.0056 U
RT-4	**Apr. '10**		**NA**	**NA**	**NA**	**0.00467 U**	**NA**	**0.00407 J**	**0.00304 J**	**0.00467 U**	**0.0187 U**	**NA**	**0.00467 U**
RT-5	Oct '00	Upper	NA	NA	NA	NA	NA	0.0034 J	U	U	U	U	NA
RT-5	Nov '03		NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA
RT-5	Mar '06		NA	NA	NA	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.020 U	NA	0.005 U
RT-5	Oct '06		NA	NA	NA	0.0051 U	NA	0.0051 U	0.0051 U	0.0051 U	0.020 U	NA	0.0051 U
RT-5	Apr '07		NA	NA	NA	0.0047 U	NA	0.0020 J	0.0047 U	0.0047 U	0.019 U	NA	0.0047 U
RT-5 DUP (RT-KK)	Apr '07		NA	NA	NA	0.0047 U	NA	0.0035 J	0.0047 U	0.0047 U	0.019 U	NA	0.0047 U
RT-5	Oct '07		NA	NA	NA	0.0049 U	NA	0.0034 J	0.0049 U	0.0049 U	0.020 U	NA	0.0049 U
RT-5	Apr '08		NA	NA	NA	0.0047 U	NA	0.0039 J	0.0047 U	0.0047 U	0.019 U	NA	0.0047 U
RT-5	Sep. '08		NA	NA	NA	0.0053 U	NA	0.0022 J	0.0021 J	0.0053 U	0.021 U	NA	0.0053 U
RT-5	**Apr. '10**		**NA**	**NA**	**NA**	**0.00472 U**	**NA**	**0.00422 J**	**0.00284 J**	**0.00472 U**	**0.0189 U**	**NA**	**0.00472 U**

Notes:
* Shaded cell indicates the result exceeded the USEPA MCL.
Bolded text indicates values obtained during 2009 (the current reporting period)
U = Below Detection Limit
D = Result from diluted sample
J = Result was estimated
B = The constituent was also detected in a blank
E = Exceeds the highest concentration level on the standard curve
X = Result associated with a laboratory contaminant
NA = Not Available or Not Analyzed

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-1	Aug. '91	Upper	0.058	0.014	U	0.01	4.6	U	NA
MW-1	Dec. '91		0.043	0.012	U	0.0044	NA	NA	NA
MW-1	Jan. '93		0.083	0.0052 X	U	U	NA	NA	NA
MW-1	Oct. '00		0.0637	U	U	U	2.85 B	U	109
MW-1	Nov. '03		0.099	0.005 U	0.63 U	0.005 U	NA	NA	NA
MW-1	Mar. '06		0.034	0.0024	1.3 U	0.0015 U	NA	NA	NA
MW-1	Apr. '08		0.0699	0.0149	0.19 U	0.0081	NA	NA	NA
MW-2	Aug. '91	Upper	0.023	0.079	U	0.032	7	U	NA
MW-2	Dec. '91		0.0065	0.035	U	0.01	NA	NA	NA
MW-2	Jan. '93		0.0078	0.043	U	0.0079	NA	NA	NA
MW-2	Oct. '00		U	U	U	U	U	U	U
MW-3	Aug. '91	Upper	0.02	0.119	U	0.057	5.5	U	NA
MW-3	Dec. '91		NA	0.052	U	0.019	NA	NA	NA
MW-3	Jan. '93		U	0.095	0.06	0.017	NA	NA	NA
MW-3	Mar. '06		0.003 U	0.0381	0.025 U	0.0079	NA	NA	NA
MW-4	Aug. '91	Upper	N	0.028	U	0.0092	2.9	U	NA
MW-4	Dec. '91		0.042	0.26	U	0.078	NA	NA	NA
MW-4	Jan. '93		0.0074	0.024 X	U	0.0067	NA	NA	NA
MW-4	Oct. '00		0.005 B	U	U	U	1.03 B	U	166
MW-4	Nov. '03		0.005 U	0.005 U	0.13 U	0.005 U	NA	NA	NA
MW-4	Mar. '06		0.0035	0.0027	0.50 U	0.0015 U	NA	NA	NA
MW-4	Apr. '08		0.0681	0.0155	0.010 U	0.002 U	NA	NA	NA
MW-4 DUP (DUP-425)	Apr. '08		0.0062 B	0.0055 B	0.010 U	0.002 U	NA	NA	NA
MW-5	Aug. '91	Upper	0.016	0.057	U	0.028	4.8	U	NA
MW-5	Dec. '91		U	0.021	U	0.0064	NA	NA	NA
MW-5	Jan. '93		0.0061	0.032	U	0.01	NA	NA	NA
MW-5	Oct. '00		U	U	U	U	1.03 B	U	83.2
MW-5	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-5	Mar. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-5	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-5	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-5	Oct. '06		0.003 U	0.005 U	0.010 U	0.0015 U	1.4	NA	33
MW-5	Apr. '07		0.003 U	0.002 U	0.60 U	0.0015	NA	NA	NA
MW-5	Oct. '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-5	Apr. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-5	Sep. '08		0.003 U	0.002 U	0.010	0.0015 U	NA	NA	NA
MW-5	**Apr. '10**		**0.010 U**	**0.00544 J**	**0.0250 U**	**0.00331**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-6	Aug. '91	Upper	0.015	2.93	U	0.033	6.1	U	NA
MW-6	Dec. '91		0.117	0.662	U	0.239	NA	NA	NA
MW-6	Jan. '93		0.0092	2.44	U	0.0069	NA	NA	NA
MW-6	Oct. '00		U	2.55	U	U	1.83 B	U	69.4
MW-6	Nov. '03		0.005 U	2.40	0.63 U	0.005 U	NA	NA	NA
MW-6	Mar. '06		0.003 U	1.15	1.3 U	0.0015 U	NA	NA	NA
MW-6	Apr. '08		0.0124	22.0	0.95 U	0.0036	NA	NA	NA
MW-7	Aug. '91	Upper	0.024	0.078	U	0.104	4.3	U	NA
MW-7 DUP	Aug. '91		0.03	0.101	U	0.098	6.7	U	NA
MW-7	Dec. '91		0.011	0.058	U	0.03	NA	NA	NA
MW-7	Jan. '93		0.0058	0.021 X	U	0.0097	NA	NA	NA
MW-7	Oct. '00		U	U	U	U	U	U	47.6
MW-7	Nov. '03		0.005 U	0.0097	0.025 U	0.005 U	NA	NA	NA
MW-7	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-7	Apr. '08		0.003 U	0.0083 B	0.010 U	0.0038	NA	NA	NA
MW-7	**Apr. '10**		**0.010 U**	**0.00513 J**	**0.0250 U**	**0.0027 J**	**NA**	**NA**	**NA**
MW-7 DUP(040910)	**Apr. '10**		**0.010 U**	**0.00780 J**	**0.0250 U**	**0.00642**	**NA**	**NA**	**NA**
MW-8	Dec. '91	Lower	U	U	U	U	NA	NA	NA
MW-8	Jan. '93		U	U	U	U	NA	NA	NA
MW-8	Oct. '00		U	U	U	U	2.01 B	U	17.3
MW-8	Nov. '03		0.005 U	0.005 U	0.13 U	0.005 U	NA	NA	NA
MW-8	Mar. '06		0.0134	0.002 U	0.50 U	0.0018 B	NA	NA	NA
MW-8	Apr. '08		0.003 U	0.0065 B	0.010 U	0.0048	NA	NA	NA
MW-8	**Apr. '10**		**0.010 U**	**0.00447 J**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-9	Dec. '91	Lower	U	U	U	U	NA	NA	NA
MW-9	Jan. '93		U	0.005 X	U	U	NA	NA	NA
MW-9 DUP	Jan. '93		U	U	U	0.024	NA	NA	NA
MW-9	Nov. '03		0.005 U	0.005 U	0.050 U	0.005 U	NA	NA	NA
MW-9	Mar. '06		0.003 U	0.002 U	0.25 U	0.004	NA	NA	NA
MW-9	Apr. '08		0.003 U	0.0027 B	0.010 U	0.0181	NA	NA	NA
MW-9	**Apr. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.00719**	**NA**	**NA**	**NA**
MW-10	Aug. '91	Lower	0.021	U	U	U	NA	NA	NA
MW-10	Jan. '93		0.022	U	U	U	NA	NA	NA
MW-10	Oct. '00		U	U	U	U	2.32 B	U	26.9
MW-10	Nov. '03		0.005 U	0.005 U	0.050 U	0.005 U	NA	NA	NA
MW-10	Mar. '05		0.005 U	0.005 U	0.13 U	0.003 U	NA	NA	NA
MW-10	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-10	Mar. '06		0.003 U	0.002 U	0.25 U	0.0015 U	NA	NA	NA
MW-10	Jun. '06		NA	NA	NA	NA	2.2	NA	29
MW-10	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	2.0	NA	28.9
MW-10	Apr. '07		0.003 U	0.002 U	0.95 U	0.0015 U	NA	NA	NA
MW-10	Oct. '07		0.003 U	0.002 U	0.10 U	0.0015 U	NA	NA	NA
MW-10	Apr. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-10	Sep. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-10	**Apr. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.00259 J**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-11	Dec. '91	Upper	0.167	0.251	0.03	0.113	NA	NA	NA
MW-11	Jan. '93		0.259	0.199	U	0.188	NA	NA	NA
MW-11	Oct. '00		U	U	U	U	1.31 B	U	47.5
MW-11	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-11	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-11	Apr. '08		0.0048 B	0.0034 B	0.010 U	0.0064	NA	NA	NA
MW-11	**Apr. '10**		**0.00355 J**	**0.010 U**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-12	Dec. '91	Upper	0.01	0.047	U	0.023	NA	NA	NA
MW-12	Jan. '93		U	0.012 X	U	U	NA	NA	NA
MW-12	Oct. '00		U	U	U	U	2.71	U	21.3
MW-12	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-12 DUP	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-12	Mar. '06		0.008 B	0.002 U	1.3 U	0.0015 U	NA	NA	NA
MW-12	Apr. '08		0.008 B	0.0066 B	0.010 U	0.017	NA	NA	NA
MW-12	**Apr. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.00266 J**	**NA**	**NA**	**NA**
MW-13	Dec. '91	Upper	0.03	0.144	U	0.047	NA	NA	NA
MW-13	Jan. '93		0.034	0.117	U	0.039	NA	NA	NA
MW-13	Oct. '00		U	U	U	U	1.35 B	U	26
MW-13	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-13	Mar. '06		0.003 U	0.0027 B	0.025 U	0.0015 U	NA	NA	NA
MW-13	Apr. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-13	**Apr. '10**		**0.010 U**	**0.00848 J**	**0.0250 U**	**0.00241 J**	**NA**	**NA**	**NA**
MW-14	Dec. '91	Upper	0.051	0.343	0.05	0.123	NA	NA	NA
MW-14	Jan. '93		0.083	0.373	U	0.173	NA	NA	NA
MW-14	Oct. '00		U	U	U	U	1.85 B	U	30.4
MW-14	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-14	Mar. '05		0.008	0.005 U	0.13 U	0.003 U	NA	NA	NA
MW-14	Nov. '05		0.018	0.023	0.25 U	0.018	NA	NA	NA
MW-14	Mar. '06		0.0133	0.0029 B	0.025 U	0.0043	NA	NA	NA
MW-14	June-06		NA	NA	NA	NA	1.0	NA	32
MW-14	Oct. '06		0.0117	0.0045	0.010 U	0.0068	0.001 U	NA	53.7
MW-14	Apr. '07		0.011	0.011	0.013 U	0.017	NA	NA	NA
MW-14	Oct. '07		0.0085	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-14 Dup (MW-63)	Oct. '07		0.010	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-14	Apr. '08		0.0172	0.002 U	0.19 U	0.0015 B	NA	NA	NA
MW-14	Sep. '08		0.0302	0.002 U	0.20 U	0.0015 U	NA	NA	NA
MW-14	May. '09		0.0805	0.010 U	0.500 U	0.003 U	NA	NA	NA
MW-14 DUP (DUP052009)	May. '09		0.0694	0.010 U	0.500 U	0.003 U	NA	NA	NA
MW-14	Nov. '09		0.0362	0.010 U	0.250 U	0.003 U	NA	NA	NA
MW-14	**Apr. '10**		**0.0723**	**0.00499 J**	**0.500 U**	**0.00183 J**	**NA**	**NA**	**NA**
MW-14	**Oct. '10**		**0.0553**	**0.00409 J**	**0.500 U**	**0.00686**	**NA**	**NA**	**NA**
MW-14 DUP101510	**Oct. '10**		**0.0474**	**0.00267 J**	**1.25 U**	**0.00516**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-15	Dec. '91	Upper	U	0.014	U	0.0039	NA	NA	NA
MW-15	Jan. '93		0.031	0.147	U	0.051	NA	NA	NA
MW-15	Oct. '00		0.0195	0.0975	U	0.0428	7.63	U	36.6
MW-15	Nov. '03		0.005 U	0.0062	0.025 U	0.005 U	NA	NA	NA
MW-15	Mar. '06		0.0151	0.0888	0.025 U	0.0364	NA	NA	NA
MW-15	Apr. '08		0.0197	0.072	0.010 U	0.0475	NA	NA	NA
MW-16	Dec. '91	Upper	0.0067	1.44	U	0.0042	NA	NA	NA
MW-16	Jan. '93		0.0091	0.09	0.06	0.015	NA	NA	NA
MW-16	Oct. '00		0.0051 B	0.0229	U	0.006	2.73 B	U	53.5
MW-16 DUP	Oct. '00		U	0.0218	U	0.0036	2.64 B	U	50.5
MW-16	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-16	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-16	Apr. '08		0.003 U	0.002 U	0.020 U	0.002 U	NA	NA	NA
MW-16	**Apr. '10**		**0.010 U**	**0.00335 J**	**0.500 U**	**0.0199**	**NA**	**NA**	**NA**
MW-17	Jan. '93	Lower	U	0.022 X	U	0.0079	NA	NA	NA
MW-17	Feb. '93		U	0.01 X	U	U	NA	NA	NA
MW-17 DUP	Feb. '93		U	0.0043 X	U	U	NA	NA	NA
MW-17	Oct. '00		U	U	U	U	2.91 B	U	45.2
MW-17	Nov. '03		0.005 U	0.005 U	0.13 U	0.005 U	NA	NA	NA
MW-17 DUP	Nov. '03		0.005 U	0.005 U	0.13 U	0.005 U	NA	NA	NA
MW-17	Mar. '06		0.003 U	0.002 U	0.25 U	0.0015 U	NA	NA	NA
MW-17 DUP (MW-B)	Mar. '06		0.003 U	0.002 U	0.25 U	0.0015 U	NA	NA	NA
MW-17	Apr. '08		0.004 B	0.0122	0.010 U	0.002 U	NA	NA	NA
MW-19	Jan. 1993		U	0.019 X	U	0.0046	NA	NA	NA
MW-19	Feb. 1993		U	0.024 X	U	0.0089	NA	NA	NA
MW-20	Jan. '93	Upper	0.12	0.445	U	0.17	NA	NA	NA
MW-20	Feb. '93		0.079	0.323	U	0.152	NA	NA	NA
MW-20	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-20	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-20	Apr. '08		0.0187	0.0295	0.010 U	0.0334	NA	NA	NA
MW-21	Jan. 1993		0.047	0.616	U	0.159	NA	NA	NA

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-23S	Jan. '93	Upper	0.165	1.23	0.21	0.164	NA	NA	NA
MW-23	Feb. '93		0.134	1.18	0.279	0.174	NA	NA	NA
MW-23	Oct. '00		U	0.0367	U	U	1.72 B	U	135
MW-23	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-23	Mar. '06		0.003 U	0.0068	0.025 U	0.0015 U	NA	NA	NA
MW-23	Oct. '06		0.0042	0.243	0.010 U	0.0035	NA	0.003 U	NA
MW-23	Apr. '07		0.003 U	0.090	NA	0.0015 U	NA	0.003 U	NA
MW-23	Oct. '07		0.003 U	0.0065	NA	0.002 U	NA	0.002 U	NA
MW-23 (Dup RT-9)	Oct. '07		0.003 U	0.0060	NA	0.0015 U	NA	0.003 U	NA
MW-23	Apr. '08		0.008 B	0.544	0.010 U	0.0151	NA	0.003 U	NA
MW-23	Sep. '08		0.0369	3.45	0.010 U(4)	0.0559	NA	0.003 U	NA
MW-23 DUP (926/0810039-07)	Sep. '08		0.0336	3.35	0.023	0.0557	NA	0.003 U	NA
MW-23	May. '09		0.010 U	0.0393	0.0250 U	0.003 U	NA	0.003 U	NA
MW-23	Oct. '09		0.00776 J	0.259	0.0250 U	0.00694	NA	0.003 U	NA
MW-23	**Apr. '10**		**0.010 U**	**0.153**	**0.0360**	**0.0023 J**	**NA**	**0.003 U**	**NA**
MW-24	Jan. 1993	Upper	0.165	0.184	U	0.06	NA	NA	NA
MW-24	Feb. 1993		0.111	0.069 X	U	0.034	NA	NA	NA
MW-25S	Jan. '93	Upper	0.144	0.476	U	0.166	NA	NA	NA
MW-25	Feb. '93		0.119	0.378	U	0.14	NA	NA	NA
MW-25	Oct. '00		U	U	U	U	1.08 B	U	89.9
MW-25	Nov. '03		0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-25	Mar. '06		0.003 U	0.002 U	1.3 U	0.0015 U	NA	NA	NA
MW-25	Apr. '08		0.003 U	0.0173	0.010 U	0.0085	NA	NA	NA
MW-25	Apr. '10		**0.010 U**	**0.00225 J**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-41	Nov. '03	Upper	0.005 U	3.5	3.6	0.005 U	NA	NA	NA
MW-41	Mar. '05		0.0078	0.005 U	0.25 U	0.003 U	NA	NA	NA
MW-41	Nov. '05		0.007	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-41	Mar. '06		0.0059 B	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-41	Jun. '06		NA	NA	NA	NA	1.4	NA	57
MW-41	Oct. '06		0.012	0.002 U	0.010 U	0.0015 U	2.1	NA	62.4
MW-41	Apr. '07		0.0042	0.002 U	0.038 U	0.0015 U	NA	NA	NA
MW-41	Oct. '07		0.0048	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-41	Apr. '08		0.0103	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-41	Sep. '08		0.0169	0.0287	0.010 U	0.0081	NA	NA	NA
MW-41	May. '09		0.0073 B	0.010 U	0.500 U	0.003 U	NA	NA	NA
MW-41	Oct. '09		0.0142	0.00241 J	0.0250 U	0.003 U	NA	NA	NA
MW-41	**Apr. '10**		**0.00748 J**	**0.00619 J**	**0.0250 U**	**0.00395**	**NA**	**NA**	**NA**
MW-41	**Oct. '10**		**0.00864 J**	**0.00760 J**	**0.0250 U**	**0.00343**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-42	Nov. '03	Lower	0.005 U	2.6	0.13 U	0.005 U	NA	NA	NA
MW-42	Mar. '05		0.005 U	0.005 U	0.25 U	0.003 U	NA	NA	NA
MW-42	Nov. '05		0.005 U	0.005 U	0.25 U	0.003 U	NA	NA	NA
MW-42	Mar. '06		0.003 U	0.002 U	0.50 U	0.0015 U	NA	NA	NA
MW-42	Jun. '06		NA	NA	NA	NA	3.3	NA	92
MW-42	Oct. '06		0.003 U	0.002 U	0.038 U	0.0015 U	2.8	NA	79
MW-42	Apr. '07		0.003 U	0.002 U	0.95 U	0.0015 U	NA	NA	NA
MW-42	Oct. '07		0.003 U	0.002 U	0.20 U	0.0015 U	NA	NA	NA
MW-42	Apr. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-42	Sep. '08		0.003 U	0.0022 B	0.010 U	0.002 B	NA	NA	NA
MW-42	May. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-42	Oct. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-42	**Apr. '10**		**0.010 U**	**0.00314 J**	**0.0250 U**	**0.00174 J**	**NA**	**NA**	**NA**
MW-42	**Oct. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.00179 J**	**NA**	**NA**	**NA**
MW-43	Mar. '05	PRB Upper	0.005 U	0.0086	0.025 U	0.003 U	NA	NA	NA
MW-43	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-43	Apr. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-43S(Std. Purge)	Jun. '06		NA	NA	NA	NA	2.6	NA	71
MW-43	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	3.0	NA	82
MW-43 DUP (MW-AC)	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	2.9	NA	81
MW-43	May '07		0.003 U	0.002 U	U	0.0015 U	NA	NA	NA
MW-43	Oct '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-43	Apr '08		0.003 U	0.002 U	0.010 U	0.002 U	NA	NA	NA
MW-43	Sep '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-43	May '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-43	Oct '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-43	**Apr '10**		**0.010 U**	**0.00218 J**	**0.0250 U**	**0.00233 J**	**NA**	**NA**	**NA**
MW-43	**Oct '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-44	Mar. '05	PRB Lower	0.005 U	0.017	0.025 U	0.0034	NA	NA	NA
MW-44 DUP	Mar. '05		0.005 U	0.015	0.025 U	0.003 U	NA	NA	NA
MW-44	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-44	Apr. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-44 DUP (MW-F)	Apr. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-44S (Std. Purge)	Jun. '06		NA	NA	NA	NA	2.5	NA	61
MW-44	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	2.3	NA	56
MW-44	May '07		0.003 U	0.002 U	U	0.0015 U	NA	NA	NA
MW-44	Oct '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-44	Apr '08		0.003 U	0.0023 B	0.010 U	0.002 U	NA	NA	NA
MW-44	Sep '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-44	May '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-44	Oct '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-44	**Apr '10**		**0.010 U**	**0.00215 J**	**0.0250 U**	**0.00176 J**	**NA**	**NA**	**NA**
MW-44	**Oct '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-45	Nov. '03	Upper	0.005 U	0.005 U	1.6	0.005 U	NA	NA	NA
MW-45	Mar. '05		0.005 U	2.5	2.6	0.003 U	NA	NA	NA
MW-45	Nov. '05		0.005 U	0.890	0.90	0.003 U	NA	NA	NA
MW-45	Mar. '06		0.003 U	3.37	2.8	0.0015 U	NA	NA	NA
MW-45	Jun. '06		NA	NA	NA	NA	2.4	NA	57
MW-45	Oct. '06		0.003 U	0.641	0.67	0.0015 U	3.0	NA	71.0
MW-45	Apr. '07		0.003 U	1.02	0.48	0.0015 U	NA	NA	NA
MW-45	Oct. '07		0.003 U	0.310	0.28	0.0015 U	NA	NA	NA
MW-45	Apr. '08		0.003 U	0.933	0.76	0.0015 U	NA	NA	NA
MW-45	Sep. '08		0.0168	1.21	0.47	0.0249	NA	NA	NA
MW-45	May. '09		0.0047 B	0.784	0.717	0.003 U	NA	NA	NA
MW-45	Oct. '09		0.010 U	0.659	0.259	0.003 U	NA	NA	NA
MW-45	**Apr. '10**		**0.010 U**	**0.842**	**2.05**	**0.003 U**	**NA**	**NA**	**NA**
MW-45	**Oct. '10**		**0.010 U**	**0.877**	**0.307**	**0.00317**	**NA**	**NA**	**NA**
MW-46	Nov. '03	Lower	0.005 U	0.420	0.069	0.005 U	NA	NA	NA
MW-46	Mar. '05		0.005 U	0.056	0.13 U	0.003 U	NA	NA	NA
MW-46	Nov. '05		0.005 U	0.013	0.13 U	0.003	NA	NA	NA
MW-46	Mar. '06		0.003 U	0.0063 B	0.25 U	0.0015 U	NA	NA	NA
MW-46	Jun. '06		NA	NA	NA	NA	3.0	NA	56
MW-46	Oct. '06		0.003 U	0.0163	0.048 U	0.0015 U	2.9	NA	54.1
MW-46	Apr. '07		0.003 U	0.0027	9.5 U	0.0015 U	NA	NA	NA
MW-46	Oct. '07		0.003 U	0.002 U	0.01 U	0.0015 U	NA	NA	NA
MW-46	Apr. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-46	Sep. '08		0.0263	2.86	0.010 U	0.012	NA	NA	NA
MW-46 DUP (DUP-923)	Sep. '08		0.0057 B	0.676	0.20 U	0.0038	NA	NA	NA
MW-46	May. '09		0.010 U	0.002 B	0.0250 U	0.003 U	NA	NA	NA
MW-46	Oct. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-46	**Apr. '10**		**0.010 U**	**0.00238 J**	**0.250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-46 DUP 040710	**Apr. '10**		**0.010 U**	**0.00231 J**	**0.250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-46	**Oct. '10**		**0.010 U**	**0.00468 J**	**0.0250 U**	**0.00198 J**	**NA**	**NA**	**NA**
MW-47	Nov. '03	Upper	0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-47	Mar. '05		0.027	0.005 U	1.3 U	0.003 U	NA	NA	NA
MW-47	Nov. '05		0.005 U	0.019	0.25 UD	0.003 U	NA	NA	NA
MW-47	Mar. '06		0.0161	0.002 U	0.25 U	0.0027 B	NA	NA	NA
MW-47	Jun. '06		NA	NA	NA	NA	1.0 U	NA	14
MW-47	Oct. '06		0.0102	0.002 U	0.010 U	0.0015 U	0.001 U	NA	13.2
MW-47	Apr. '07		0.0094	0.002 U	0.19 U	0.0015 U	NA	NA	NA
MW-47 DUP (MW-JT)	Apr. '07		0.0096	0.002 U	1.9 U	0.0015 U	NA	NA	NA
MW-47	Oct. '07		0.011	0.002 U	0.20 U	0.0015 U	NA	NA	NA
MW-47	Apr. '08		0.0281	0.008 B	0.010 U	0.0153	NA	NA	NA
MW-47	Sep. '08		0.0283	0.0137	0.010 U	0.0204	NA	NA	NA
MW-47	May. '09		0.0098 B	0.010 U	0.0250 U	0.0017 B	NA	NA	NA
MW-47	Nov. '09		0.00846 J	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-47	**Apr. '10**		**0.011**	**0.00317 J**	**0.0250 U**	**0.0048**	**NA**	**NA**	**NA**
MW-47	**Oct. '10**		**0.00942 J**	**0.00654 J**	**0.0250 U**	**0.00768**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-48	Nov. '03	Lower	0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-48	Mar. '05		0.056	0.005 U	1.3 U	0.003 U	NA	NA	NA
MW-48	Nov. '05		0.068	0.005 U	0.63 U	0.003 U	NA	NA	NA
MW-48	Mar. '06		0.0709	0.002 U	0.25 U	0.0015 U	NA	NA	NA
MW-48	Jun. '06		NA	NA	NA	NA	1.0 U	NA	28
MW-48	Oct. '06		0.0618	0.002 U	0.063 U	0.0015 U	1.6	NA	32.7
MW-48	Apr. '07		0.055	0.002 U	9.5 U (4)	0.0015 U	NA	NA	NA
MW-48	Oct. '07		0.073	0.002 U	0.95 U	0.0015 U	NA	NA	NA
MW-48	Apr. '08		0.0087 B	0.002 U	0.010 U	0.0022 B	NA	NA	NA
MW-48	Sep. '08		0.0582	0.002 U	0.81	0.0015 U	NA	NA	NA
MW-48	May. '09		0.0372	0.010 U	0.500 U	0.003 U	NA	NA	NA
MW-48	Nov. '09		0.0519	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-48	**Apr. '10**		**0.0490**	**0.00247 J**	**0.500 U**	**0.00246 J**	**NA**	**NA**	**NA**
MW-48	**Oct. '10**		**0.0835**	**0.0022 J**	**0.500 U**	**0.00254 J**	**NA**	**NA**	**NA**
MW-49	Mar. '05	PRB Lower	0.005 U	0.0056	1.3 U	0.003 U	NA	NA	NA
MW-49	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-49	Apr. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-49S(Std. Purge)	Jun. '06		NA	NA	NA	NA	1.6	NA	17
MW-49	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	1.4	NA	15
MW-49	May '07		0.003 U	0.002 U	U	0.0015 U	NA	NA	NA
MW-49	Oct '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-49	Apr '08		0.003 U	0.0031 B	0.010 U	0.0023 B	NA	NA	NA
MW-49 DUP (DUP-430)	Apr '08		0.003 U	0.002 U	0.010 U	0.002 U	NA	NA	NA
MW-49	Sep '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-49 DUP (926/0810039-01)	Sep '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-49	May '09		0.010 U	0.010 U	0.0250 U	0.0016 B	NA	NA	NA
MW-49	Oct '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-49	**Apr '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-49	**Oct '10**		**0.010 U**	**0.00216 J**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-50	Mar. '05	PRB Upper	0.005 U	0.005 U	0.25 U	0.003 U	NA	NA	NA
MW-50	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-50	Apr. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-50S(Std. Purge)	Jun. '06		NA	NA	NA	NA	1.0 U	NA	12
MW-50	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	0.001 U	NA	6.2
MW-50	May '07		0.003 U	0.002	U	0.0015 U	NA	NA	NA
MW-50	Oct '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-50	Apr '08		0.003 U	0.0166	0.010 U	0.002 U	NA	NA	NA
MW-50	Sep '08		0.003 U	0.0076 B	0.010 U	0.0015 B	NA	NA	NA
MW-50	May '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-50	Oct '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-50	**Apr '10**		**0.010 U**	**0.010 U**	**0.500 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-50	**Oct '10**		**0.010 U**	**0.00272 J**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-51	Nov. '03	Upper	0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-51	Mar. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-51	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-51	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-51	Jun. '06		NA	NA	NA	NA	1.2	NA	11
MW-51	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	0.001 U	NA	8.9
MW-51	Apr. '07		0.003 U	0.002 U	0.038 U	0.0015 U	NA	NA	NA
MW-51	Oct. '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-51	Apr. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-51	Sep. '08		0.003 U	0.0096 B	0.10 U(4)	0.0065	NA	NA	NA
MW-51	May. '09		0.010 U	0.0077 B	0.0250 U	0.003 U	NA	NA	NA
MW-51	Oct. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-51	**Apr. '10**		**0.010 U**	**0.00599 J**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-51	**Oct. '10**		**0.010 U**	**0.00424 J**	**0.0250 U**	**0.00392**	**NA**	**NA**	**NA**
MW-52	Nov. '03	Lower	0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-52	Mar. '05		0.005 U	0.005 U	0.13 U	0.003 U	NA	NA	NA
MW-52	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-52 DUP	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-52	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-52	Jun. '06		NA	NA	NA	NA	1.6	NA	18
MW-52	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	1.5	NA	17
MW-52	Apr. '07		0.003 U	0.002 U	0.038 U	0.0015 U	NA	NA	NA
MW-52	Oct. '07		0.003 U	0.002 U	0.20 U	0.0015 U	NA	NA	NA
MW-52	Apr. '08		0.003 U	0.002 U	0.038 U	0.0015 U	NA	NA	NA
MW-52	Sep. '08		0.003 U	0.0046 B	0.20 U	0.0029 B	NA	NA	NA
MW-52	May. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-52	Oct. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-52 DUP (DUP-102909)	Oct. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
MW-52	**Apr. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
MW-52	**Oct. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.0033**	**NA**	**NA**	**NA**
MW-53	Nov. '03	Upper	0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-53	Mar. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-53	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-53	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-53	Jun. '06		NA	NA	NA	NA	1.0	NA	10
MW-53	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	1.6	NA	16.7
MW-53	Apr. '07		0.003 U	0.002 U	0.038 U	0.0015 U	NA	NA	NA
MW-53	Oct. '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-53	Apr. '08		0.003 U	0.002 U	0.010 U	0.0027 B	NA	NA	NA
MW-53	Sep. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-53	**Apr. '10**		**0.010 U**	**0.00312 J**	**0.0250 U**	**0.00355**	**NA**	**NA**	**NA**

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
MW-54	Nov. '03	Lower	0.005 U	0.005 U	0.025 U	0.005 U	NA	NA	NA
MW-54	Mar. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-54	Nov. '05		0.005 U	0.005 U	0.025 U	0.003 U	NA	NA	NA
MW-54	Mar. '06		0.003 U	0.002 U	0.025 U	0.0015 U	NA	NA	NA
MW-54	Jun. '06		NA	NA	NA	NA	1.5	NA	18
MW-54	Oct. '06		0.003 U	0.002 U	0.010 U	0.0015 U	1.4	NA	17.9
MW-54	Apr. '07		0.003 U	0.002 U	0.038 U	0.0015 U	NA	NA	NA
MW-54	Oct. '07		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
MW-54	Apr. '08		0.003 U	0.002 U	0.010 U	0.0037	NA	NA	NA
MW-54	Sep. '08		0.003 U	0.0042 B	0.12	0.0038	NA	NA	NA
MW-54	**Apr. '10**		**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**	**NA**	**NA**	**NA**
RT-1	Jan. '93	Upper	NA	0.019	U	NA	NA	NA	NA
RT-1 DUP	Jan. '93		NA	0.045	U	NA	NA	NA	NA
RT-1	Oct. '00		U	U	U	U	U	U	87.8
RT-1	Nov. '03		0.005 U	0.0063	0.025 U	0.005 U	NA	NA	NA
RT-1	Mar. '06		NA	NA	0.025 U	NA	NA	NA	NA
RT-1	Apr. '08		0.003 U	0.0029 B	0.010 U	0.0021 B	NA	0.003 U	NA
RT-1	Sep. '08		0.003 U	0.002 U	0.010 U	0.0015 U	NA	NA	NA
RT-1	May. '09		0.010 U	0.010 U	0.0250 U	0.003 U	NA	NA	NA
RT-1	Oct. '09		0.010 U	0.00239 J	0.0250 U	0.003 U	NA	NA	NA
RT-1	**Apr. '10**		**0.010 U**	**0.00358 J**	**0.0250 U**	**0.003 U**	**NA**	**0.003 U**	**NA**
RT-2	Jan. '93	Upper	NA	20.1	18	NA	NA	NA	NA
RT-2	Oct. '00		U	7.22	7.8	U	2.21 B	U	68.9
RT-2	Nov. '03		0.005 U	8.2	9.0	0.005 U	NA	NA	NA
RT-2	Mar. '06		NA	NA	44	NA	NA	NA	NA
RT-2	Oct. '06		0.003 U	21.6	18.6	0.0015 U	NA	0.003 U	NA
RT-2 DUP (MWRT-AC)	Oct. '06		0.003 U	21	25.7	0.0015 U	NA	0.003 U	NA
RT-2	Apr. '07		0.003 U	14	NA	0.0015 U	NA	0.003 U	NA
RT-2	Oct. '07		0.003 U	10	NA	0.0015 U	NA	0.003 U	NA
RT-2	Apr. '08		0.003 U	3.84	3.1	0.0077	NA	0.003 U	NA
RT-2	Sep. '08		0.0116	3.79	1.8 (4)	0.0252	NA	0.003 U	NA
RT-2	May. '09		0.0048 B	0.816	0.755	0.003 U	NA	0.003 U	NA
RT-2	Oct. '09		0.010 U	0.748	0.517	0.003 U	NA	0.003 U	NA
RT-2	**Apr. '10**		**0.010 U**	**0.0971**	**0.0637**	**0.00267 J**	**NA**	**0.003 U**	**NA**
RT-3	Jan. '93	Upper	NA	58.8	51	NA	NA	NA	NA
RT-3	Oct. '00		U	6.89	6.4	U	1.9 B	U	108
RT-3	Nov. '03		0.005 U	23	28	0.005 U	NA	NA	NA
RT-3	Mar. '06		NA	NA	38	NA	NA	NA	NA
RT-3	Apr. '08		0.003 U	12.9	12	0.002 U	NA	NA	NA

TABLE 3-4

METALS DETECTED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

Well Name	Sample Date	Well Type	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)
USEPA MCL*			0.01	0.1	NA	0.015	NA	0.05	NA
RT-4	Jan. '93	Upper	NA	0.132	U	NA	NA	NA	NA
RT-4	Oct. '00		0.0078 B	U	U	U	U	U	104
RT-4	Nov. '03		0.016	0.006	NA	0.005 U	NA	NA	NA
RT-4	Mar. '06		NA	NA	0.025 U	NA	NA	NA	NA
RT-4	Oct. '06		0.0123	0.005	0.010 U	0.0015 U	NA	0.003 U	NA
RT-4	Apr. '07		0.013	0.002 U	NA	0.0015 U	NA	0.003 U	NA
RT-4	Oct. '07		0.011	0.002 U	NA	0.0015 U	NA	0.003 U	NA
RT-4	Apr. '08		0.0129	0.002 U	0.010 U	0.002 U	NA	0.003 U	NA
RT-4	Sep. '08		0.0131	0.002 U	0.010 U	0.0024 B	NA	0.003 U	NA
RT-4	May. '09		0.008 B	0.010 U	0.0250 U	0.003 U	NA	0.003 U	NA
RT-4	Nov. '09		0.0139	0.010 U	0.0250 U	0.003 U	NA	0.003 U	NA
RT-4	**Apr. '10**		**0.0128**	**0.00730 J**	**0.0250 U**	**0.003 U**	**NA**	**0.003 U**	**NA**
RT-5	Jan. '93	Upper	NA	0.181	U	NA	NA	NA	NA
RT-5	Oct. '00		U	0.0092 B	U	U	1.94 B	U	62.8
RT-5	Nov. '03		0.005 U	0.024	0.025 U	0.005 U	NA	NA	NA
RT-5	Mar. '06		NA	NA	0.025 U	NA	NA	NA	NA
RT-5	Oct. '06		0.003 U	0.0038	0.010 U	0.0015 U	NA	0.003 U	NA
RT-5	Apr. '07		0.003 U	0.0029	NA	0.0015 U	NA	0.003 U	NA
RT-5 DUP (RT-KK)	Apr. '07		0.003 U	0.0065	NA	0.0015 U	NA	0.003 U	NA
RT-5	Oct. '07		0.003 U	0.0030	NA	0.0015 U	NA	0.003 U	NA
RT-5	Apr. '08		0.0034 B	0.286	0.010 U	0.009	NA	0.003 U	NA
RT-5	Sep. '08		0.0216	0.345	0.010 U	0.0241	NA	0.003 U	NA
RT-5	May. '09		0.010 U	0.0033 B	0.0250 U	0.003 U	NA	0.003 U	NA
RT-5	Oct. '09		0.00383 J	0.0319	0.0250 U	0.003 U	NA	0.003 U	NA
RT-5	**Apr. '10**		**0.010 U**	**0.00369 J**	**0.0250 U**	**0.00300 U**	**NA**	**0.003 U**	**NA**

Notes:
* Shading indicates that result exceeded USEPA MCLs
Bolded text indicates values obtained during 2009 (the current reporting period)
U = Below Detection Limit
D = Result from sample dilution
J = Result was estimated
B = Value is less than the PQL but greater than or equal to MDL
E = Exceeds the highest concentration level on the standard curve
X = Result associated with a laboratory contaminant
NA = Not Available or Not Analyzed
NS = Analyte was not sampled

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-1	Aug '91	NS		NS	NS	NS	NS
MW-1	Dec '91	NS		NS	NS	NS	NS
MW-1	Jan '93	NS		NS	NS	NS	NS
MW-1	Nov '03	4.5		6.58	730	21.4	-45
MW-1	Mar '06	0		6.08	540	18.2	-21
MW-1	Apr '08	1.0		6.38	557	18.75	-72.0
MW-2	Aug '91	NS		NS	NS	NS	NS
MW-2	Dec '91	NS		NS	NS	NS	NS
MW-2	Jan '93	NS		NS	NS	NS	NS
MW-2	Oct '98	<0.2		NS	NS	NS	126
MW-2	**Apr '10**	**0.0**		**5.14**	**1570**	**16.6**	**41**
MW-3	Aug '91	NS		NS	NS	NS	NS
MW-3	Dec '91	NS		NS	NS	NS	NS
MW-3	Jan '93	NS		NS	NS	NS	NS
MW-3	Mar '06	NS		6.05	181	17.2	206
MW-4	Aug '91	NS		NS	NS	NS	NS
MW-4	Dec '91	NS		NS	NS	NS	NS
MW-4	Jan '93	NS		NS	NS	NS	NS
MW-4	Nov '03	0.9		5.90	695	21.1	47
MW-4	Mar '06	0.4		6.85	705	18.5	-10
MW-4	Apr '08	8.35	U	6.05	767	18.3	50.0
MW-4 DUP (425)	Apr '08	8.35	U	6.05	767	18.3	50.0
MW-5	Aug '91	NS		NS	NS	NS	NS
MW-5	Dec '91	NS		NS	NS	NS	NS
MW-5	Jan '93	NS		NS	NS	NS	NS
MW-5	Oct '98	0.4		NS	NS	NS	281
MW-5 Dup.	Oct '98	0.4		NS	NS	NS	281
MW-5	Nov '03	2		5.90	233	19.8	224
MW-5	Mar '05	2.5		5.60	387	18.4	-163
MW-5	Nov '05	3		6.10	223	22.3	215
MW-5	Mar '06	3		5.70	202	17.2	132
MW-5	Oct '06	2		5.87	228	20.11	247.8
MW-5	Apr '07	2.41		4.95	233	17.23	325.4
MW-5	Oct '07	1.69		5.68	231	20.24	183.7
MW-5	Apr '08	0.58		5.52	231	17.7	259.0
MW-5	Sept '08	0.44		5.79	84.7	20.4	162.0
MW-5	**Apr. '10**	**0.00**		**6.04**	**502**	**16.4**	**193**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-6	Aug '91	NS		NS	NS	NS	NS
MW-6	Dec '91	NS		NS	NS	NS	NS
MW-6	Jan '93	NS		NS	NS	NS	NS
MW-6	Nov '03	0.3		5.78	510	23.6	-27
MW-6	Mar '06	0.2		5.83	459	17.8	4
MW-6	Apr '08	12.71	U	5.64	619	17.3	-51.0
MW-6	**Apr '10**	**0.33**		**5.81**	**900**	**17.07**	**-63**
MW-7	Aug '91	NS		NS	NS	NS	NS
MW-7 DUP	Aug '91	NS		6.69	NS	NS	NS
MW-7	Dec '91	NS		NS	NS	NS	NS
MW-7	Jan '93	NS		NS	NS	NS	NS
MW-7	Nov '03	1		6.20	94	18.3	275
MW-7	Mar '06	0		5.68	15.1	15.1	98
MW-7	Apr '08	4.53	U	5.72	130	16.6	393.0
MW-7	**Apr '10**	**0.40**		**5.45**	**528**	**15.9**	**204**
MW-8	Dec '91	NS		NS	NS	NS	NS
MW-8	Jan '93	NS		NS	NS	NS	NS
MW-8	Nov '03	0.3		5.90	273	17.4	133
MW-8	Mar '06	1		5.87	231	22.1	65
MW-8	Apr '08	5.87		5.58	239	16.8	-13.0
MW-8	**Apr '10**	**0.00**		**5.98**	**376**	**17.5**	**26**
MW-9	Dec '91	NS		NS	NS	NS	NS
MW-9	Jan '93	NS		NS	NS	NS	NS
MW-9 DUP	Jan '93	NS		NS	NS	NS	NS
MW-9	Nov '03	0.05		6.59	170	21.7	74
MW-9	Mar '06	0.4		6.34	179	12.7	5
MW-9	Apr '08	10.28	U	5.84	187	19	5.0
MW-9	**Apr '10**	**0.00**		**6.29**	**647**	**19.4**	**-92**
MW-10	Dec '91	NS		NS	NS	NS	NS
MW-10	Jan '93	NS		NS	NS	NS	NS
MW-10	Oct '98	0.4		NS	NS	NS	236
MW-10	Nov '03	0.4		6.00	253	19.5	113
MW-10	Mar '05	0.4		5.80	259	19.8	-110
MW-10	Nov '05	1		7.00	278	18.7	117
MW-10	Mar '06	0		5.92	232	14.6	91
MW-10	Jun '06	0.4		6.09	239	15.33	6
MW-10	Oct '06	0.8		5.83	235	18.89	34.1
MW-10	Apr '07	0.5		5.40	231	18.68	64.6
MW-10	Oct '07	0.37		5.84	227	18.09	-22.7
MW-10	Apr '08	1.63	U	5.96	212	18.1	-41.0
MW-10	Sept '08	0.24	U	5.79	NA	18.2	4.0
MW-10	**Apr. '10**	**0.0**		**5.87**	**711**	**17.9**	**21**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-11	Dec '91	NA		NS	NS	NS	NS
MW-11	Jan '93	NA		NS	NS	NS	NS
MW-11	Nov '03	0.5		6.20	277	17.3	238
MW-11	Mar '06	NA		6.21	382	16	155
MW-11	Apr '08	11.04	U	5.86	463	15.5	13.0
MW-11	**Apr '10**	**0.00**		**6.33**	**920**	**16.18**	**62**
MW-12	Dec '91	NS		NS	NS	NS	NS
MW-12	Jan '93	NS		NS	NS	NS	NS
MW-12	Oct '98	2.2		NS	NS	NS	190
MW-12	Nov '03	2.5		6.04	130	23.3	314
MW-12 DUP	Nov '03	2.5		6.04	130	23.3	314
MW-12	Mar '06	0.1		6.21	213	15.7	-13
MW-12	Apr '08	14.2	U	5.58	169	18.4	55.0
MW-12	**Apr '10**	**1.22**		**6.01**	**302**	**18.3**	**93**
MW-13	Dec '91	NA		NA	NA	NA	NA
MW-13	Jan '93	NA		NA	NA	NA	NA
MW-13	Nov '03	6		6.00	128	19.6	250
MW-13	Mar '06	3		7.04	233	15.8	217
MW-13	Apr '08	2.76		NA	184	17.3	66.0
MW-13	**Apr '10**	**4.38**		**5.82**	**885**	**16.68**	**166**
MW-14	Dec '91	NA		NA	NA	NA	NA
MW-14	Jan '93	NA		NA	NA	NA	NA
MW-14	Oct '98	1.2		NA	NA	NA	320
MW-14	Nov '03	1.5		5.96	220	22.1	383
MW-14	Mar '05	0.15		7.28	369	19.3	-16
MW-14	Nov '05	1		7.60	215	21	-130
MW-14	Mar '06	0.1		8.56	199	18	-49
MW-14	Jun '06	0.7		7.68	171	19.09	-193
MW-14	Oct '06	0.2		7.79	280	19.56	-206.7
MW-14	Apr '07	0.7		7.81	158	17.86	-207.1
MW-14	Oct '07	0.06		7.58	403	19.27	-165.8
MW-14	Apr '08	0.0	U	6.50	307	17.9	-26.0
MW-14	Sept '08	0.24	U	6.50	NA	20.64	-134.0
MW-14	Apr '09	0.40		6.20	30	17.6	-58.0
MW-14	Oct '09	0.00		6.31	369	18.7	-119.0
MW-14	**Apr. '10**	**0.05**		**6.17**	**900**	**16.89**	**-77**
MW-14	**Oct. '10**	**0.66**		**6.17**	**449**	**19.30**	**-74**
MW-15	Dec '91	NA		NA	NA	NA	NA
MW-15	Jan '93	NA		NA	NA	NA	NA
MW-15	Nov '03	1		5.90	197	19.6	380
MW-15	Mar '06	0.6		6.52	242	16.9	129
MW-15	Apr '08	8.12		6.19	262	19.3	61.0
MW-15	**Apr '10**	**0.00**		**5.36**	**453**	**16.2**	**277**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-16	Dec '91	NA		NA	NA	NA	NA
MW-16	Jan '93	NA		NA	NA	NA	NA
MW-16	Nov '03	0.4		4.10	1634	18.8	245
MW-16	Mar '06	0.2		4.29	2741	17	201
MW-16	Apr '08	0.40	U	6.19	262	19.3	61.0
MW-16	**Apr '10**	**0.01**		**4.86**	**6390**	**14.5**	**171**
MW-17	Jan '93	NA		NA	NA	NA	NA
MW-17	Feb '93	NA		NA	NA	NA	NA
MW-17 DUP	Feb '93	NA		NA	NA	NA	NA
MW-17	Oct '98	<0.2		NA	NA	NA	180
MW-17	Nov '03	0.4		6.00	341	20	71
MW-17 DUP	Nov '03	0.4		6.00	341	20	78
MW-17	Mar '06	0.3		7.38	320	20	18
MW-17 DUP (MW-B)	Mar '06	0.3		7.38	320	20	18
MW-17	Apr '08	1.34	U	5.65	335	18.73	-60.0
MW-17	**Apr '10**	**0.01**		**5.94**	**573**	**18.0**	**-67**
MW-19	Jan '93	NA		NA	NA	NA	NA
MW-19	Feb '93	NA		NA	NA	NA	NA
MW-20	Jan '93	NA		NA	NA	NA	NA
MW-20	Feb '93	NA		NA	NA	NA	NA
MW-20	Nov '03	1		5.90	159	23.9	354
MW-20	Mar '06	2		7.08	210	18.1	224
MW-20	Apr '08	12.22	U	5.95	342	18.2	47.0
MW-21	Jan '93	NA		NA	NA	NA	NA
MW-21	Feb '93	NA		NA	NA	NA	NA
MW-23S	Jan '93	NA		NA	NA	NA	NA
MW-23	Feb '93	NA		NA	NA	NA	NA
MW-23	Nov '03	1		6.40	370	17.5	283
MW-23	Mar '06	0.3		7.56	615	19	176
MW-23	Oct '06	0.3		6.20	691	22.45	155.4
MW-23	Apr '08	0.33		6.27	575	19.0	261.0
MW-23	Sept '08	0.02	U	5.69	NA	23.2	161.0
MW-23 DUP (926/0810039-07)	Sept '08	0.02	U	5.69	NA	23.2	161.0
MW-23	Apr '09	0.40		6.30	54	19.5	136.0
MW-23	Oct '09	1.81		6.30	886	21.0	215.0
MW-23	**Apr. '10**	**0.00**		**6.35**	**900**	**17.9**	**113**
MW-24	Jan '93	NA		NA	NA	NA	NA
MW-24	Feb '93	NA		NA	NA	NA	NA

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-25S	Jan '93	NA		NA	NA	NA	NA
MW-25	Feb '93	NA		NA	NA	NA	NA
MW-25	Nov '03	3		6.40	260	17.7	205
MW-25	Mar '06	0.6		7.26	294	19.9	80
MW-25	Apr '08	4.54	U	5.87	NA	19.75	110.0
MW-25	**Apr '10**	**0.92**		**5.93**	**390**	**19.6**	**96**
MW-41	Nov '03	3		5.97	390	19.9	313
MW-41	Mar '05	0.05		6.70	333	19.6	NA
MW-41	Nov '05	0.8		7.50	330	19.4	-155
MW-41	Mar '06	0.8		8.70	334	17.5	-57
MW-41	Jun '06	0.6		8.07	325	18.16	-200
MW-41	Oct '06	0.6		8.79	321	19.48	-269.8
MW-41	Apr '07	0.7		8.95	294	18.51	-340.7
MW-41	Oct '07	0.14		9.44	313	19.23	-152
MW-41	Apr '08	5.6	U	9.48	322	18.2	-339.0
MW-41	Sept '08	0.3	U	9.69	NA	20.69	-287.0
MW-41	May. '09	0.4		7.55	27	17.9	-256.0
MW-41	Oct '09	0.0		9.87	368	19	-269.0
MW-41	**Apr. '10**	**0.00**		**9.50**	**891**	**17.8**	**-297**
MW-41	**Oct. '10**	**0.00**		**9.91**	**476**	**19.6**	**-259**
MW-42	Nov '03	0.2		6.00	520	21	80
MW-42	Mar '05	0.2		5.90	520	20.2	-199
MW-42	Nov '05	0		6.60	732	20.3	-81
MW-42	Mar '06	0		6.17	674	17.8	-66
MW-42	Jun '06	0.3		6.45	650	19.25	-112
MW-42	Oct '06	0.4		6.17	551	18.48	-104.8
MW-42	Apr '07	0.2		5.78	395	18.55	-222.4
MW-42	Oct '07	0.1		5.99	407	18.53	8.0
MW-42	Apr '08	4.29	U	6.67	404	18.6	-84.0
MW-42	Sept '08	0.18	U	6.25	NA	18	-95.0
MW-42	May. '09	6.02		5.70	46	18.5	-169.0
MW-42	Oct '09	0.00		6.36	513	18.8	-206.0
MW-42	**Apr. '10**	**0.0**		**6.32**	**791**	**18.1**	**-193**
MW-42	**Oct. '10**	**1.08**		**6.25**	**649**	**18.64**	**-181**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-43	Mar '05	0.2		10.64	769	18.4	-660
MW-43	Nov '05	0.2		10.40	576	19.8	-421
MW-43	Apr '06	1		NA	464	18.3	-391
MW-43S	Jun '06	0.4		10.80	476	19.63	-394
MW-43	Oct '06	0.87		10.51	635	21.25	-326.7
MW-43 DUP (MW-AC)	Oct '06	0.87		10.51	635	21.25	-326.7
MW-43	May '07	0.06		10.69	471	18.78	-400
MW-43	Oct '07	0.1		10.38	606	20.40	-226
MW-43	Apr '08	2.13	U	10.90	523	17.14	-178.0
MW-43	Sept '08	0.09	U	10.37	NA	20.59	-216.0
MW-43	May. '09	0.60		10.98	38	18.2	-494.0
MW-43	Oct '09	0.00		10.56	737	18.6	-72.0
MW-43	**Apr. '10**	**0.0**		**10.64**	**635**	**17.4**	**-145**
MW-43	**Oct. '10**	**0.67**		**10.06**	**868**	**22.56**	**-119**
MW-44	Mar '05	0.2		10.87	426	18.6	-790
MW-44	Nov '05	0.2		10.80	447	16.7	-475
MW-44	Apr '06	1		NA	349	19.2	-373
MW-44 DUP (MW-F)	Apr '06	NS		NS	NS	NS	NS
MW-44S	Jun '06	0.4		10.29	365	18.4	-192
MW-44	Oct '06	0.4		10.70	372	19.73	-318.6
MW-44	May '07	0.08		10.00	332	19.12	-216
MW-44	Oct '07	0.09		10.34	400	19.21	-339
MW-44	Apr '08	1.41	U	10.99	353	17.57	-300.0
MW-44	Sept '08	0.15	U	10.40	NA	19.07	-290.0
MW-44	May. '09	18.30		8.60	31	18.3	-323.0
MW-44	Oct '09	0.00		10.41	360	18.1	-126.0
MW-44	**Apr. '10**	**6.28**		**10.47**	**900**	**19.85**	**-221**
MW-44	**Oct. '10**	**1.55**		**10.89**	**568**	**21.29**	**-161**
MW-45	Nov '03	2		5.80	492	19.1	206
MW-45	Mar '05	1.5		5.80	462	18.4	-15
MW-45	Nov '05	1		6.00	449	19.8	NA
MW-45	Mar '06	2		5.74	395	18.3	186
MW-45	Jun '06	0.14		NS	NS	NS	NS
MW-45	Oct '06	0.6		5.90	580	18.16	146.2
MW-45	Apr '07	0.26		5.44	498	17.17	182.2
MW-45	Oct '07	0.06		5.88	583	18.10	64.0
MW-45	Apr '08	0.00	U	5.28	483	17.8	21.0
MW-45	Sept '08	0.21	U	6.11	NA	18.67	157.0
MW-45	May. '09	6.62		5.30	54	18.4	187.0
MW-45	Oct '09	0.00		5.80	660	18.4	129.0
MW-45	**Apr. '10**	**0.06**		**5.84**	**999**	**17.1**	**200**
MW-45	**Oct. '10**	**5.80**		**5.83**	**910**	**18.1**	**174**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-46	Nov '03	0.3		6.08	460	21.9	250
MW-46	Mar '05	0.2		6.00	436	18	-59
MW-46	Nov '05	0.3		6.10	462	19.6	65
MW-46	Mar '06	0.8		5.93	438	17.4	117
MW-46	Jun '06	1		6.31	460	18.9	-53
MW-46	Oct '06	0.65		5.91	469	16.59	24.6
MW-46	Apr '07	0.4		5.66	458	18.26	51.4
MW-46	Oct '07	0.08		5.95	464	17.90	-20.2
MW-46	Apr '08	0.00	U	5.48	430	18.1	43.0
MW-46	Sept '08	0.18	U	5.98	NA	17.85	-23.0
MW-46 DUP (923)	Sept '08	0.18	U	5.98	NA	17.85	-23.0
MW-46	May. '09	0.50		6.11	NA	18.7	59.0
MW-46	Oct '09	0.00		6.06	582	18.1	47.0
MW-46	**Apr. '10**	**0.19**		**6.07**	**900**	**18.22**	**15**
MW-46	**Oct. '10**	**0.08**		**5.97**	**743**	**17.95**	**0**
MW-47	Nov '03	3		5.80	410	21.4	355
MW-47	Mar '05	0		7.12	328	18.8	91
MW-47	Nov '05	0		6.80	147	20	-77
MW-47	Mar '06	1		7.68	90	17.1	-91
MW-47	Jun '06	0.2		6.86	93	17.93	-147
MW-47	Oct '06	0		6.62	98	19.16	-99.4
MW-47	Apr '07	0.7		6.67	170	18.29	-133
MW-47	Oct '07	0.1		6.21	91	18.65	-42.7
MW-47	Apr '08	NA	U	NA	NA	NA	NA
MW-47	Sept '08	0.90	U	6.90	NA	19.52	-154.0
MW-47	May. '09	0.40		6.20	9	17.8	-123.0
MW-47	Oct '09	0.00		6.79	440	18.2	-123.0
MW-47	**Apr. '10**	**0.00**		**6.75**	**288**	**17.8**	**-158**
MW-47	**Oct. '10**	**4.73**		**6.36**	**169**	**18.43**	**-151**
MW-48	Nov '03	0.7		5.90	120	20	367
MW-48	Mar '05	0		7.22	310	19.8	-87
MW-48	Nov '05	0		6.80	282	19.6	-85
MW-48	Mar '06	0		7.21	224	18.5	-72
MW-48	Jun '06	0.28		7.01	191	18.49	-153
MW-48	Oct '06	0.8		6.86	350	17.5	-123.7
MW-48	Apr '07	0.5		6.39	217	18.55	-103.6
MW-48	Oct '07	0.27		6.49	354	17.95	-65.4
MW-48	Apr '08	NA	U	NA	NA	NA	NA
MW-48	Sept '08	0.18	U	6.75	NA	17.82	-199.0
MW-48	May. '09	0.50		6.70	29	18.2	-123.0
MW-48	Oct '09	0.00		6.80	337	17.8	-120.0
MW-48	**Apr. '10**	**0.00**		**6.55**	**464**	**17.6**	**-114**
MW-48	**Oct. '10**	**0.00**		**6.66**	**594**	**18.1**	**-154**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-49	Mar '05	0		6.80	228	17.5	-150
MW-49	Nov '05	0		7.10	167	NA	-259
MW-49	Apr '06	0.4		NA	101	18.7	-34
MW-49S	Jun '06	0.9		9.90	129	19.41	-269
MW-49	Oct '06	0.6		9.98	119	19.68	-99
MW-49	May '07	0.03		9.46	165	18.51	-244
MW-49	Oct '07	0.26		9.27	182	18.82	-168.9
MW-49	Apr '08	4.88	U	8.90	183	18.1	-360.0
MW-49 DUP (430)	Apr '08	4.88	U	8.90	183	18.1	-360.0
MW-49	Sept '08	0.17		9.19	NA	18.59	-467.0
MW-49 DUP (926/0810039-01)	Sept '08	0.17	U	9.19	NA	18.59	-467.0
MW-49	May. '09	0.30		9.00	18	17.9	-296.0
MW-49	Oct '09	0.00		9.21	280	19.3	-135.0
MW-49	**Apr. '10**	**0.00**		**9.17**	**512**	**17.3**	**-407**
MW-49	**Oct. '10**	**2.75**		**9.23**	**422**	**22.32**	**-269**
MW-50	Mar '05	0		7.80	199	18.4	-107
MW-50	Nov '05	1		9.50	49	20.5	-269
MW-50	Apr '06	0.1		NA	102	18.4	-231
MW-50S	Jun '06	0.7		9.20	94	19.94	-331
MW-50	Oct '06	0.5		10.07	59	21.93	-213.7
MW-50	May '07	0.07		9.69	97	21.19	-86
MW-50	Oct '07	0.02		9.74	79	21.20	-377.9
MW-50	Apr '08	4.97	U	8.48	297	16.5	-402.0
MW-50	Sept '08	0.18	U	9.42	NA	22.01	-405.0
MW-50	May. '09	0.30		8.70	42	18.7	-654.0
MW-50	Oct '09	0.00		9.20	63.2	21.1	-630.0
MW-50	**Apr. '10**	**0.00**		**7.31**	**900**	**15.7**	**-350**
MW-50	**Oct. '10**	**0.0**		**7.43**	**NA**	**22.9**	**-268**
MW-51	Nov '03	0.6		5.70	100	21.2	367
MW-51	Mar '05	0.9		5.20	72	18.5	20
MW-51	Nov '05	1		5.40	80	20.1	92
MW-51	Mar '06	0.2		5.26	58	16.6	163
MW-51	Jun '06	0.63		5.55	88	17.19	-54
MW-51	Oct '06	3		5.34	65	18.52	290.8
MW-51	Apr '07	0.98		3.87	90	17.34	-7.3
MW-51	Oct '07	0.7		5.31	113	17.75	227.7
MW-51	Apr '08	18.68		6.48	137	16.6	12.0
MW-51	Sept '08	1.22	U	5.54	NA	18.62	181.0
MW-51	May. '09	7.19		5.40	17	16.2	232.0
MW-51	Oct '09	0.72		5.54	130	17.8	336.0
MW-51	**Apr. '10**	**0.12**		**5.47**	**412**	**16.4**	**195**
MW-51	**Oct. '10**	**0.34**		**5.30**	**198**	**18.12**	**247**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
MW-52	Nov '03	0.4		5.73	160	20.6	285
MW-52	Mar '05	1.5		5.20	141	18.3	72
MW-52	Nov '05	0.2		5.80	151	21	105
MW-52	Mar '06	0		5.59	145	20.2	192
MW-52	Jun '06	0.16		5.61	152	17.9	-96
MW-52	Oct '06	0.1		5.72	161	17.36	117.8
MW-52	Apr '07	0.1		4.31	168	17.71	-38.3
MW-52	Oct '07	0.05		5.58	164	17.02	67.2
MW-52	Apr '08	6.68	U	6.10	151	17.3	-19.0
MW-52	Sept '08	0.00	U	4.88	NA	17.4	90.0
MW-52	May. '09	0.20		5.60	17	17.3	129.0
MW-52	Oct '09	0.00		5.67	235	17.6	155.0
MW-52	**Apr. '10**	**0.00**		**5.42**	**249**	**16.7**	**90**
MW-52	**Oct. '10**	**0.00**		**5.47**	**930**	**17.3**	**66**
MW-53	Nov '03	0.7		5.70	111	20	335
MW-53	Mar '05	0.8		5.40	128	NA	10
MW-53	Nov '05	0.4		5.50	109	19.4	113
MW-53	Mar '06	0.3		5.71	104	16.7	155
MW-53	Jun '06	1.9		5.56	80	17.08	164
MW-53	Oct '06	2		5.71	151	17.51	251.7
MW-53	Apr '07	0.2		4.09	106	16.05	-49.3
MW-53	Oct '07	0.11		5.66	155	17.63	81.9
MW-53	Apr '08	2.13		5.18	139	15.7	46.0
MW-53	Sept '08	0.26	U	5.74	NA	18.41	157.0
MW-53	**Apr. '10**	**1.31**		**5.70**	**124**	**14.8**	**208**
MW-54	Nov '03	0.6		7.20	110	18.9	320
MW-54	Mar '05	0.4		5.60	134	18.1	-45
MW-54	Nov '05	0.2		5.70	150	19	127
MW-54	Mar '06	1		6.63	129	16.6	216
MW-54	Jun '06	0.1		5.82	141	18.17	-32
MW-54	Oct '06	1		5.58	148	17.2	235
MW-54	Apr '07	0.14		4.17	137	17.32	119.5
MW-54	Oct '07	0.05		5.47	141	16.84	86.0
MW-54	Apr '08	1.28	U	5.04	131	16.8	31.0
MW-54	Sept '08	0.19	U	5.55	NA	16.89	189.0
MW-54	**Apr. '10**	**0.00**		**5.62**	**209**	**15.9**	**264**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
RT-1	Jan '93	NS		NS	NA	NA	NA
RT-1 DUP	Jan '93	NS		NS	NA	NA	NA
RT-1	Nov '03	1.5		5.75	480	21.8	323
RT-1	Mar '06	0.6		6.75	424	19.1	231
RT-1	Apr '08	0.19		5.63	445	17.9	275.0
RT-1	Sept '08	0.06	U	5.15	NA	20.4	75.0
RT-1	May. '09	0.20		5.62	9.93	18.8	244.0
RT-1	Oct '09	1.65		5.76	489	19	-139.0
RT-1	**Apr. '10**	**0.00**		**5.94**	**900**	**17.58**	**175**
RT-2	Jan '93	NS		NS	NS	NS	NS
RT-2	Nov '03	5		6.00	677	21.2	313
RT-2	Mar '06	5		6.93	578	18.1	58
RT-2	Apr '07	0.5		5.63	401	18.94	218.1
RT-2	Oct '07	0.14		5.95	527	21.28	147.1
RT-2	Apr '08	0.15	U	5.40	497	19.1	211.0
RT-2	Sept '08	3.89	U	5.49	NA	21.4	152.0
RT-2	May. '09	5.77		5.60	60	19	187.0
RT-2	Oct '09	0.00		6.06	86	21.1	219.0
RT-2	**Apr. '10**	**0.00**		**5.99**	**982**	**17.7**	**211**
RT-3	Jan '93	NA		NS	NS	NS	NS
RT-3	Nov '03	12		6.04	640	20.6	250
RT-3	Nov '03	NA		6.79	480	17.7	NA
RT-3	Mar '06	12		6.94	544	19.1	29
RT-3	Apr '08	0.41	U	5.96	624	19.0	265.0
RT-4	Jan '93	NA		NA	NA	NA	NA
RT-4	Mar '06	NA		8.08	571	28.7	NA
RT-4	Apr '07	6.4		6.56	519	18.47	130.8
RT-4	Oct '07	3.01		6.5	529	19.65	45.8
RT-4	Apr '08	5.03	U	6.32	480	18.1	205.0
RT-4	Sept '08	1.49	U	6.53	NA	20.25	22.0
RT-4	May. '09	0.80		6.90	47	19.3	60.0
RT-4	Oct '09	0.86		6.79	750	19.2	14.0
RT-4	**Apr. '10**	**6.71**		**6.79**	**990**	**18.5**	**72**

TABLE 3-5

FIELD PARAMETERS MEASURED IN GROUNDWATER

Grenada Manufacturing Site
Grenada, Mississippi

		Electron Acceptors		Geochemical Parameters			
Well	Date	Dissolved Oxygen mg/L		pH	Conductivity µmhos/cm	Temperature °C	ORP mV
RT-5	Jan '93	NS		NS	NS	NS	NS
RT-5	Nov '03	1		5.79	440	16.7	180
RT-5	Mar '06	0.6		5.61	455	18.6	9
RT-5	Apr '07	0.69		5.66	425	18.49	51.9
RT-5	Oct '07	0.6		5.95	527	21.28	183.7
RT-5	Apr '08	0.0	U	5.68	386	18.5	148.0
RT-5	Sept '08	3.24	U	5.65	NA	20.5	90.0
RT-5	May. '09	0.90		6.10	26	18.8	133.0
RT-5	Oct '09	1.55		5.91	292	20.1	132.0
RT-5	**Apr. '10**	**0.18**		**6.15**	**900**	**17.4**	**184**

Notes:
Bolded text represents data from calander year 2010
Red highlighted values indicate probable conductivity probe malfunction
U = Not Detected
D = Sample was diluted
J = Sample was estimated
B = The constituent was also detected in a blank
E = Exceeds the highest concentration level on the standard curve
X = Result associated with a laboratory contaminant
N =
NA = Not Available or Not Analyzed
NS = Not Sampled

TABLE 3-6
SUMMARY OF STATISTICAL ANALYSIS
(SPRING 2010 SAMPLING EVENT)

Grenada Manufacturing Site
Grenada, Mississippi

		Non Detects						RT-2		RT-4		RT-5	
Parameter	No. BG	No.	%	Data Transform	Method	Prediction Limit	Units	Data	Exceed	Data	Exceed	Data	Exceed
1,2,4-TCB	16	6	38%	none	Nonparametric Prediction Limit	0.0684	mg/L	0.0551	no	0.00407	no	0.00422	no
2-methylnaphthalene	8	8	100%	none	Nonparametric Prediction Limit	<0.00472	mg/L	< 0.000654	no	< 0.000636	no	< 0.000642	no
Naphthalene	8	8	100%	none	Nonparametric Prediction Limit	<0.00472	mg/L	0.00153	no	< 0.000421	no	< 0.000425	no
trans-1,2-DCE	17	3	18%	none	Parametric Prediction Limit	0.130	mg/L	< 0.132	no	0.200	yes	< 0.0053	no
TCE	18	0	0%	Ln	Parametric Prediction Limit	29.0	mg/L	15.3	no	0.503	no	0.338	no
Vinyl Chloride	18	1	6%	none	Parametric Prediction Limit	0.371	mg/L	0.657	yes	0.752	yes	0.0448	no
Arsenic	9	6	67%	none	Nonparametric Prediction Limit	0.05	mg/L	< 0.003	no	0.0128	no	< 0.003	no
Total Chromium	17	1	6%	Ln	Parametric Prediction Limit	1.47	mg/L	0.0971	no	0.0073	no	0.00369	no

NOTES:
BG - Background

TABLE 3-7
QC RESULTS SUMMARY
Grenada Manufacturing Site
Grenada, Mississippi

Field QC:	Sample Event	Medium	Sample ID	LAB ID	Frequency Required	Required Frequency Met?	Measurement Performance Criteria	Performance Criteria Met?
SPRING 2010 SAMPLING EVENT								
Field Blank	4/7/2010	Groundwater	FB-01	1004042-10	1 per medium per 20 field samples collected, or 1 per medium per event if fewer than 20 samples collected	yes	All compounds of interest < or = RL	no[1]
	4/13/2010	Groundwater	FB-02	1004078-07		yes		no[1]
	4/13/2010	Surface Water	FB-03	1004093-08		yes		no[1]
Field Duplicate	4/7/2010	Groundwater	DUP-040710 (MW-46)	1004042-10		yes	+/- 50% RPD with provisions for wider acceptance limits near the detection limits	yes
	4/9/2010	Groundwater	DUP-040910 (MW-7)	1004073-07		yes		yes
	4/13/2010	Surface Water	DUP-041410 (SW-22)	1004093-06		yes		yes
MS/MSD	4/8/2010	Groundwater	MW-53 (MS/MSD)	1004058-07		yes		no[2]
	4/9/2010	Groundwater	MW-11 (MS/MSD)	1004073-03		yes		yes
	4/13/2010	Surface Water	SW-9 (MS/MSD)	1004093-04		yes		yes
SPRING 2010 SURFACEWATER RE-SAMPLING EVENT								
Field Blank	7/29/2010	Surface Water	FB-04	1007181-08	1 per medium per 20 field samples collected, or 1 per medium per event if fewer than 20 samples collected	yes	All compounds of interest < or = RL	no[1]
Field Duplicate	7/29/2010	Surface Water	DUP-072910 (SW-22)	1007181-06		yes	+/- 50% RPD with provisions for wider acceptance limits near the detection limits	yes
MS/MSD	7/29/2010	Surface Water	SW-9 (MS/MSD)	1007181-04		yes		yes
FALL 2010 SAMPLING EVENT								
Field Blank	10/15/2010	Groundwater	FB-101510	1010142-06	1 per medium per 20 field samples collected, or 1 per medium per event if fewer than 20 samples collected	yes	All compounds of interest < or = RL	no[3]
	10/18/2010	Surface Water	FB-01	1010147-07		yes		yes
Field Duplicate	10/14/2010	Groundwater	DUP-102909 (MW-14)	1010142-07		yes	+/- 50% RPD with provisions for wider acceptance limits near the detection limits	yes
	10/18/2010	Surface Water	DUP-101810 (SW-12)	1010147-06		yes		yes
MS/MSD	10/15/2010	Groundwater	MW-47 (MS/MSD)	1010127-05		yes		no[1]
	10/18/2010	Surface Water	SW-22 (MS/MSD)	1010147-05		yes		yes

1 - Toluene concentration greater than RL.
2 - Trichloroethene value outside of QC limits.
3 - Methylene chloride and xylene concentrations greater than RL.

TABLE 3-8

RESULTS FOR VOCS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	Tetrachloro-ethene (mg/L)	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl chloride (mg/L)	1,2-Dichloro-ethene (Total) (mg/L)	Toluene (mg/L)	Xylene (total) (mg/L)
SW-22A	May '93	0.001 U	0.001 U	NA	0.002 U	0.001 U	0.001 U	0.001 U
SW-22B	May '93	0.001 U	0.001 U	NA	0.002 U	0.001 U	0.001 U	0.001 U
SW-22C	May '93	0.001 U	0.001 U	NA	0.002 U	0.001 U	0.001 U	0.001 U
SW-22	Nov '03	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22 DUP	Nov '03	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Feb '04	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-22	May '04	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Aug '04	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Nov '04	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Mar '05	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	May '05	0.0003 U	0.0002 U	0.0003 U	0.0005 U	NA	0.0002 U	0.0002 U
SW-22	Jan '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Mar '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22 DUP (SW-A)	Mar '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Jul '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Oct '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22 DUP (SW-AB)	Oct '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	May '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22 Dup (SW-30)	May '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Jul '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Oct '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Apr '08	0.001 U	0.00041 JB	0.00017 J	0.002 U	NA	0.001 U	NA
SW-22	Sep '08	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.00044 J	NA
SW-22 DUP (DUP-92908)	Sep '08	0.001 U	0.0058	0.030	0.0034	NA	0.001 U	NA
SW-22	May '09	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-22	Nov '09	0.001 U	0.001 U	0.00022 J	0.002 U	NA	0.001 U	NA
SW-22	**Apr '10**	**0.001 U**	**0.001 U**	**0.001 U**	**0.002 U**	**NA**	**0.001 U**	**NA**
SW-22 DUP 041310	**Apr '10**	**0.001 U**	**0.001 U**	**0.001 U**	**0.002 U**	**NA**	**0.001 U**	**NA**
SW-22	**Jul '10**	**0.001 U**	**0.001 U**	**0.001 U**	**0.002 U**	**NA**	**0.001 U**	**NA**
SW-22 DUP 072910	**Jul '10**	**0.001 U**	**0.001 U**	**0.001 U**	**0.002 U**	**NA**	**0.001 U**	**NA**
SW-22	**Oct '10**	**0.001 U**	**0.001 U**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**NA**
SW-12	Feb '93	0.001 U	0.099	NA	0.002 U	0.039	0.0017 J	0.0011 J
SW-12	Nov '03	0.001 U	0.022	0.033	0.0018 J	NA	0.001 U	NA
SW-12	Feb '04	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-12 DUP	Feb '04	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-12	May '04	0.00042 J	0.077	0.11	0.0047	NA	0.001 U	NA
SW-12 DUP	May '04	0.001 U	0.058	0.095	0.0028	NA	0.001 U	NA
SW-12	Aug '04	0.001 U	0.061	0.099	0.0035	NA	0.001 U	NA
SW-12	Nov '04	0.001 U	0.0018	0.0052	0.002 U	NA	0.001 U	NA
SW-12	Mar '05	0.001 U	0.004	0.013	0.00064 J	NA	0.001 U	NA
SW-12	May '05	0.0003 U	0.00089 J	0.0017	0.0005 U	NA	0.0002 U	0.0002 U
SW-12	Jan '06	0.001 U	0.0034	0.0029	0.002 U	NA	0.001 U	NA
SW-12	Mar '06	0.001 U	0.0014	0.0018	0.002 U	NA	0.001 U	NA
SW-12	Jul '06	0.001 U	0.0039	0.0073	0.002 U	NA	0.001 U	NA
SW-12	Oct '06	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-12	May '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-12	Jul '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-12	Oct '07	0.001 U	0.00055 J	0.001	0.002 U	NA	0.001 U	NA
SW-12 Dup (SW-14)	Oct '07	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U	NA
SW-12	Apr '08	0.001 U	0.004 B	0.0044	0.00052 J	NA	0.00033 J	NA
SW-12 Dup (DUP-43008)	Apr '08	0.001 U	0.0078	0.005	0.00060 J	NA	0.00034 J	NA
SW-12	Sep '08	0.001 U	0.0023	0.007	0.00095 J	NA	0.00042 J	NA
SW-12	May '09	0.001 U	0.0021	0.0082	0.0015 J	NA	0.00017 J	NA
SW-12	Nov '09	0.001 U	0.0024	0.0032	0.00034 J	NA	0.001 U	NA
SW-12	**Apr '10**	**0.001 U**	**0.001 U**	**0.000755 J**	**0.002 U**	**NA**	**0.001 U**	**NA**
SW-12	**Jul '10**	**0.001 U**	**0.001 U**	**0.001 U**	**0.000244 J**	**NA**	**0.001 U**	**NA**
SW-12	**Oct '10**	**0.001 U**	**0.021**	**0.0164**	**0.00271**	**NA**	**0.001 U**	**NA**
SW-12 DUP 101810	**Oct '10**	**0.001 U**	**0.0216**	**0.0165**	**0.00258**	**NA**	**0.001 U**	**NA**
SW-19A	May '93	0.001 U	0.55 D	NA	0.013 J	0.13	0.001 U	0.001 U
SW-19B	May '93	0.001 U	0.5 D	NA	0.014 J	0.13	0.001 U	0.001 U
SW-19C	May '93	0.001 U	0.57 D	NA	0.014 J	0.14	0.001 U	0.001 U
SW-19	Nov '03	0.001 U	0.079	0.059	0.0033	NA	0.001 U	NA
SW-19	Feb '04	0.001 U	0.094	0.11	0.015	NA	0.001 U	0.001 U
SW-19	May '04	0.001 U	0.049	0.062	0.0058	NA	0.001 U	NA
SW-19	Aug '04	0.00056 J	0.28 D	0.3 D	0.036	NA	0.001 U	NA
SW-19 DUP	Aug '04	0.00061 J	0.27 D	0.31 D	0.035	NA	0.001 U	NA
SW-19	Nov '04	0.001 U	0.011	0.0077	0.002 U	NA	0.001 U	NA
SW-19	Mar '05	0.001 U	0.0085	0.015	0.00089 J	NA	0.001 U	NA
SW-19	May '05	0.0003 U	0.00088 J	0.0032	0.0005 U	NA	0.00044 J	0.0002 U
SW-19	Jan '06	0.001 U	0.0012	0.0023	0.002 U	NA	0.001 U	NA
SW-19 DUP (SW-23)	Jan '06	0.001 U	0.001	0.0025	0.002 U	NA	0.001 U	NA
SW-19	Mar '06	0.001 U	0.002	0.0023	0.002 U	NA	0.001 U	NA
SW-19	Jul '06	0.001 U	0.004	0.0084	0.002 U	NA	0.001 U	NA
SW-19 DUP (SW-23)	Jul '06	0.001 U	0.0035	0.0089	0.002 U	NA	0.001 U	NA
SW-19	Oct '06	0.001 U	0.0024	0.0049	0.002 U	NA	0.001 U	NA
SW-19	May '07	0.001 U	0.0034	0.032	0.042	NA	0.001 U	NA
SW-19	Jul '07	0.001 U	0.00099 J	0.0020	0.0012 J	NA	0.001 U	NA
SW-19 DUP (SW-BA)	Jul '07	0.001 U	0.0012	0.0023	0.0012 J	NA	0.001 U	NA
SW-19	Oct '07	0.001 U	0.00037 J	0.00085 J	0.00057 J	NA	0.001 U	NA
SW-19	Apr '08	0.001 U	0.00078 JB	0.0011	0.00033 J	NA	0.001 U	NA
SW-19	Sep '08	0.001 U	0.018	0.100	0.027	NA	0.00019 J	NA
SW-19	May '09	0.001 U	0.0069	0.049	0.0014	NA	0.001 U	NA

TABLE 3-8

RESULTS FOR VOCS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	Tetrachloro-ethene (mg/L)	Trichloroethene (mg/L)	cis-1,2-Dichloro-ethene (mg/L)	Vinyl chloride (mg/L)	1,2-Dichloro-ethene (Total) (mg/L)	Toluene (mg/L)	Xylene (total) (mg/L)
SW-19 DUP (DUP052109)	May '09	0.001 U	0.007	0.051	0.015	NA	0.001 U	NA
SW-19	Nov '09	0.001 U	0.0034	0.022	0.0059	NA	0.001 U	NA
SW-19	**Apr '10**	**0.001 U**	**0.00585**	**0.0393**	**0.00734**	**NA**	**0.001 U**	**NA**
SW-19	**Jul '10**	**0.001 U**	**0.00448**	**0.00548**	**0.00156 J**	**NA**	**0.001 U**	**NA**
SW-19	**Oct '10**	**0.001 U**	**0.00703**	**0.0676**	**0.00892**	**NA**	**0.001 U**	**NA**
SW-9	Feb '93	0.001 U	0.28 D	NA	0.002 U	0.057	0.001 U	0.002 U
SW-9 DUP	Feb '93	0.001 U	0.29 D	NA	0.002 U	0.056	0.001 U	0.002 U
SW-9	Nov '03	0.002 UD	0.12 D	0.083 D	0.0076 D	NA	0.002 UD	NA
SW-9	Feb '04	0.001 U	0.0510	0.034	0.004	NA	0.001 U	0.001 U
SW-9	May '04	0.00031 J	0.1100	0.07	0.0058	NA	0.001 U	NA
SW-9	Aug '04	0.001 U	0.1500	0.11	0.0092	NA	0.001 U	NA
SW-9	Nov '04	0.001 U	0.0590	0.036	0.0046	NA	0.001 U	NA
SW-9 DUP	Nov '04	0.001 U	0.0600	0.037	0.0043	NA	0.001 U	NA
SW-9	Mar '05	0.001 U	0.034	0.045	0.0034	NA	0.001 U	NA
SW-9 DUP	Mar '05	0.001 U	0.033	0.042	0.0036	NA	0.001 U	NA
SW-9	May '05	0.0003 U	0.016	0.038	0.0068	NA	0.0002 U	0.0002 U
SW-9	Jan '06	0.001 U	0.0038	0.010	0.0039	NA	0.001 U	NA
SW-9	Mar '06	0.001 U	0.0047	0.011	0.0034	NA	0.001 U	NA
SW-9	Jul '06	0.001 U	0.0047	0.023	0.0064	NA	0.001 U	NA
SW-9	Oct '06	0.001 U	0.0045	0.016	0.0091	NA	0.001 U	NA
SW-9	May '07	0.001 U	0.0040	0.020	0.0072	NA	0.001 U	NA
SW-9	Jul '07	0.001 U	0.0048	0.018	0.0089	NA	0.001 U	NA
SW-9	Oct '07	0.001 U	0.0015	0.008	0.0028	NA	0.001 U	NA
SW-9	Apr '08	0.001 U	0.0063 B	0.019	0.0051	NA	0.001 U	NA
SW-9	Sep '08	0.001 U	0.012	0.073	0.015	NA	0.00032 J	NA
SW-9	May '09	0.001 U	0.0051	0.030	0.0081	NA	0.001 U	NA
SW-9	Nov '09	0.001 U	0.0034	0.016	0.0037	NA	0.001 U	NA
SW-9 DUP (DUP-110209)	Nov '09	0.001 U	0.0036	0.015	0.0035	NA	0.001 U	NA
SW-9	**Apr '10**	**0.001 U**	**0.00501**	**0.001 U**	**0.00613**	**NA**	**0.001 U**	**NA**
SW-9	**Jul '10**	**0.001 U**	**0.00405**	**0.029**	**0.0102**	**NA**	**0.001 U**	**NA**
SW-9	**Oct '10**	**0.001 U**	**0.00452**	**0.0434**	**0.00543**	**NA**	**0.001 U**	**NA**
SW-17A	May '93	0.001 U	0.16 D	NA	0.002 U	0.059	0.001 U	0.001 U
SW-17B	May '93	0.001 U	0.17 D	NA	0.002 U	0.055	0.001 U	0.001 U
SW-17C	May '93	0.001 U	0.17 D	NA	0.002 U	0.058	0.001 U	0.001 U
SW-17	Nov '03	0.001 U	0.096	0.065	0.0053	NA	0.001 U	NA
SW-17	Feb '04	0.001 U	0.05	0.032	0.0039	NA	0.001 U	0.001 U
SW-17	May '04	0.00035 J	0.1	0.068	0.0072	NA	0.001 U	NA
SW-17	Aug '04	0.001 U	0.12	0.08	0.0063	NA	0.001 U	NA
SW-17	Nov '04	0.001 U	0.048	0.028	0.0035	NA	0.001 U	NA
SW-17	Mar '05	0.001 U	0.022	0.031	0.0024	NA	0.001 U	NA
SW-17	May '05	0.0003 U	0.0086	0.023	0.0033	NA	0.0002 U	0.0002 U
SW-17 DUP	May '05	0.0003 U	0.0094	0.023	0.0038	NA	0.0002 U	0.0002 U
SW-17	Jan '06	0.001 U	0.0047	0.012	0.0043	NA	0.001 U	NA
SW-17	Mar '06	0.001 U	0.0034	0.008	0.002	NA	0.001 U	NA
SW-17	Jul '06	0.001 U	0.0029	0.013	0.0023	NA	0.001 U	NA
SW-17	Oct '06	0.001 U	0.0031	0.012	0.0057	NA	0.001 U	NA
SW-17	May '07	0.001 U	0.0014	0.0074	0.0019 J	NA	0.001 U	NA
SW-17	Jul '07	0.001 U	0.0024	0.0088	0.0034	NA	0.001 U	NA
SW-17	Oct '07	0.001 U	0.001	0.0052	0.0016 J	NA	0.001 U	NA
SW-17	Apr '08	0.001 U	0.0041 B	0.012	0.0028	NA	0.001 U	NA
SW-17	Sep '08	0.001 U	0.0062	0.032	0.0039	NA	0.00025 J	NA
SW-17	May '09	0.001 U	0.0027	0.011	0.0026	NA	0.001 U	NA
SW-17	Nov '09	0.001 U	0.0026	0.011	0.0028	NA	0.001 U	NA
SW-17	**Apr '10**	**0.001 U**	**0.00308**	**0.0144**	**0.00328**	**NA**	**0.001 U**	**NA**
SW-17	**Jul '10**	**0.001 U**	**0.00174**	**0.0104**	**0.00309**	**NA**	**0.001 U**	**NA**
SW-17	**Oct '10**	**0.001 U**	**0.000863 J**	**0.00771**	**0.00188**	**NA**	**0.001 U**	**NA**

Notes:
U = Below Detection Limit
D = Result from sample dilution
J = Result was estimated
X = Result associated with a laboratory contaminant
NA = Not Available or Not Analyzed

TABLE 3-8

RESULTS FOR VOCS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	trans-1,2-Dichloro-ethene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
SW-22A	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-22B	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-22C	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-22	Nov '03	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22 DUP	Nov '03	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Feb '04	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SW-22	May '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Aug '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Nov '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Mar '05	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	May '05	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
SW-22	Jan '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Mar '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22 DUP (SW-A)	Mar '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Jul '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Oct '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22 DUP (SW-AB)	Oct '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	May '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22 Dup (SW-30)	May '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Jul '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Oct '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Apr '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Sep '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22 DUP (DUP-92908)	Sep '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	May '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	Nov '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-22	**Apr '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-22 DUP 041310	**Apr '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-22	**Jul '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-22 DUP 072910	**Jul '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-22	**Oct '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-12	Feb '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-12	Nov '03	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Feb '04	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SW-12 DUP	Feb '04	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SW-12	May '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12 DUP	May '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Aug '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Nov '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Mar '05	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	May '05	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
SW-12	Jan '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Mar '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Jul '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Oct '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	May '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Jul '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Oct '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12 Dup (SW-14)	Oct '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Apr '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12 Dup (DUP-43008)	Apr '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Sep '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	May '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	Nov '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-12	**Apr '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-12	**Jul '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-12	**Oct '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-12 DUP 101810	**Oct '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-19A	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-19B	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-19C	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-19	Nov '03	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Feb '04	0.001 U	0.001 U	0.00051 J	0.001 U	0.001 U
SW-19	May '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Aug '04	0.001 U	0.0008 J	NA	0.001 U	0.001 U
SW-19 DUP	Aug '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Nov '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Mar '05	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	May '05	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
SW-19	Jan '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19 DUP (SW-23)	Jan '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Mar '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Jul '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19 DUP (SW-23)	Jul '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Oct '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	May '07	0.001 U	0.001 U	NA	0.001 U	0.00020 J
SW-19	Jul '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19 DUP (SW-BA)	Jul '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Oct '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Apr '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Sep '08	0.001 U	0.00039 J	NA	0.001 U	0.001 U
SW-19	May '09	0.001 U	0.001 U	NA	0.001 U	0.001 U

TABLE 3-8

RESULTS FOR VOCS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	1,2-Dichloro-ethane (mg/L)	1,1-Dichloro-ethene (mg/L)	trans-1,2-Dichloro-ethene (mg/L)	1,1,2-Trichloro-ethane (mg/L)	Benzene (mg/L)
SW-19 DUP (DUP052109)	May '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	Nov '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-19	**Apr '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-19	**Jul '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-19	**Oct '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-9	Feb '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-9 DUP	Feb '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-9	Nov '03	0.002 UD	0.002 UD	NA	0.002 UD	0.002 UD
SW-9	Feb '04	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SW-9	May '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Aug '04	0.001 U	0.00042 J	NA	0.001 U	0.001 U
SW-9	Nov '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9 DUP	Nov '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Mar '05	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9 DUP	Mar '05	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	May '05	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
SW-9	Jan '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Mar '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Jul '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Oct '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	May '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Jul '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Oct '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Apr '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Sep '08	0.001 U	0.00024 J	NA	0.001 U	0.001 U
SW-9	May '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	Nov '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9 DUP (DUP-110209)	Nov '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-9	**Apr '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-9	**Jul '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-9	**Oct '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-17A	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-17B	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-17C	May '93	0.001 U	0.002 U	NA	0.001 U	0.001 U
SW-17	Nov '03	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Feb '04	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SW-17	May '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Aug '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Nov '04	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Mar '05	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	May '05	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
SW-17 DUP	May '05	0.0002 U	0.0003 U	0.0003 U	0.0002 U	0.0002 U
SW-17	Jan '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Mar '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Jul '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Oct '06	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	May '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Jul '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Oct '07	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Apr '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Sep '08	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	May '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	Nov '09	0.001 U	0.001 U	NA	0.001 U	0.001 U
SW-17	**Apr '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-17	**Jul '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**
SW-17	**Oct '10**	**0.001 U**	**0.001 U**	**NA**	**0.001 U**	**0.001 U**

Notes:
U = Below Detection Limit
D = Result from sample dilution
J = Result was estimated
X = Result associated with a laboratory contaminant
NA = Not Available or Not Analyzed

TABLE 3-9

METALS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)
Mississippi and EPA Aquatic Life Criteria[a]					
Acute		0.34 (III)	--	0.016	0.03
Chronic		0.15 (III)	--	0.011	0.0018
Mississippi Surface Water Human Health Criteria[b]		0.024 (Total)	--	1.47	--
SW-22A	May '93	0.005 U	0.0037 X	0.025 U	0.0053 X
SW-22B	May '93	0.005 U	0.0042 X	0.025 U	0.0036 X
SW-22C	May '93	0.005 U	0.0056 X	0.025 U	0.005 X
SW-22	Nov '03	0.005 U	0.005 U	0.050 U	0.005 U
SW-22 DUP	Nov '03	0.005 U	0.005 U	0.025 U	0.005 U
SW-22	Feb '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-22	May '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-22	Aug '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-22	Nov '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-22	Mar '05	0.005 U	0.005 U	0.025 U	0.003 U
SW-22	May '05	0.005 U	0.005 U	0.010 U	0.003 U
SW-22	Jan '06	0.005 U	0.005 U	0.010 U	0.003 U
SW-22	Mar '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-22 DUP (SW-A)	Mar '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-22	Jul '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-22	Oct '06	0.003 U	0.002 U	0.010 U	0.0015 U
SW-22 DUP (SW-AB)	Oct '06	0.003 U	0.002 U	0.010 U	0.0015 U
SW-22	May '07	0.003 U	0.002 U	0.010 U	0.0015 U
SW-22 Dup (SW-30)	May '07	0.003 U	0.002 U	0.010 U	0.0015 U
SW-22	Jul '07	0.0038	0.002 U	0.025 UN	0.0015 U
SW-22	Oct '07	0.003 U	0.0037	0.054	0.0015 U
SW-22	Apr '08	0.0038 B	0.002 U	0.010 U	0.0028 B
SW-22	Sep '08	0.003 U	0.002 U	0.010 U	0.0015 U
SW-22 DUP (DUP-92908)	Sep '08	0.003 U	0.002 U	0.010 U	0.0015 U
SW-22	May '09	0.010 U	0.010 U	0.0250 U	0.003 U
SW-22	Nov '09	0.0033 J	0.00254 J	0.0250 U	0.003 U
SW-22	**Apr '10**	**0.010 U**	**0.00209 J**	**0.0250 U**	**0.003 U**
SW-22 DUP 041310	**Apr '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**
SW-22	**Jul '10**	**0.010 U**	**0.0032 J**	**0.0250 U**	**0.00159 J**
SW-22 DUP 072910	**Jul '10**	**0.00453 J**	**0.00291 J**	**0.0250 U**	**0.003 U**
SW-22	**Oct '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**
SW-12	Feb '93	0.005 U	0.431	0.164	0.0039
SW-12	Nov '03	0.005 U	0.033	0.025 U	0.005 U
SW-12	Feb '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-12 DUP	Feb '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-12	May '04	0.005 U	0.43	0.025 U	0.033
SW-12 DUP	May '04	0.005 U	0.18	0.025 U	0.015
SW-12	Aug '04	0.005 U	0.018	0.025 U	0.003 U
SW-12	Nov '04	0.005 U	0.013	0.025 U	0.003 U
SW-12	Mar '05	0.005 U	0.005 U	0.025 U	0.003 U
SW-12	May '05	0.005 U	0.005 U	0.010 U	0.003 U
SW-12	Jan '06	0.005 U	0.005 U	0.010 U	0.003 U
SW-12	Mar '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-12	Jul '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-12	Oct '06	0.003 U	0.002 U	0.014	0.0015 U
SW-12	May '07	0.003 U	0.002 U	0.010 U	0.0015 U
SW-12	Jul '07	0.003 U	0.002 U	0.025 UN	0.0015 U
SW-12	Oct '07	0.003 U	0.0035	0.055	0.0024
SW-12 Dup (SW-14)	Oct '07	0.003 U	0.0039	0.054	0.0015 U
SW-12	Apr '08	0.003 U	0.002 U	0.010 U	0.0029 B
SW-12 Dup (DUP-43008)	Apr '08	0.003 U	0.002 U	0.010 U	0.002 U
SW-12	Sep '08	0.003 U	0.0021 B	0.010 U	0.0015 U
SW-12	May '09	0.010 U	0.010 U	0.0250 U	0.003 U
SW-12	Nov '09	0.00309 J	0.0027 J	0.0250 U	0.003 U
SW-12	**Apr '10**	**0.010 U**	**0.00207 J**	**0.0250 U**	**0.00172 J**
SW-12	**Jul '10**	**0.00327 J**	**0.00237 J**	**0.0250 U**	**0.003 U**
SW-12	**Oct '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**
SW-12 DUP 101810	**Oct '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.00239 J**

TABLE 3-9

METALS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)
Mississippi and EPA Aquatic Life Criteria[a]					
Acute		0.34 (III)	--	0.016	0.03
Chronic		0.15 (III)	--	0.011	0.0018
Mississippi Surface Water Human Health Criteria[b]		0.024 (Total)	--	1.47	--
SW-19A	May '93	0.005 U	0.119	0.129	0.0033 X
SW-19B	May '93	0.005 U	0.126	0.115	0.005 X
SW-19C	May '93	0.005 U	0.13	0.116	0.003 X
SW-19	Nov '03	0.005 U	0.0064	0.025 U	0.005 U
SW-19	Feb '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-19	May '04	0.005 U	0.018	0.025 U	0.003 U
SW-19	Aug '04	0.005 U	0.019	0.025 U	0.003 U
SW-19 DUP	Aug '04	0.005 U	0.018	0.025 U	0.003 U
SW-19	Nov '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-19	Mar '05	0.005 U	0.005 U	0.025 U	0.003 U
SW-19	May '05	0.005 U	0.005 U	0.010 U	0.003 U
SW-19	Jan '06	0.005 U	0.005 U	0.010 U	0.003 U
SW-19 DUP (SW-23)	Jan '06	0.005 U	0.005 U	0.010 U	0.003 U
SW-19	Mar '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-19	Jul '06	0.0031	0.002 U	0.025 U	0.0015 U
SW-19 DUP (SW-23)	Jul '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-19	Oct '06	0.003 U	0.002 U	0.010 U	0.0015 U
SW-19	May '07	0.003 U	0.002 U	0.010 U	0.0015 U
SW-19	Jul '07	0.0033	0.002 U	0.025 UN	0.0015 U
SW-19 Dup (SW-BA)	Jul '07	0.003 U	0.002 U	0.025 UN	0.0015 U
SW-19	Oct '07	0.003 U	0.0032	0.045	0.0021
SW-19	Apr '08	0.0032 B	0.002 U	0.010 U	0.0024 B
SW-19	Sep '08	0.003 U	0.002 U	0.010 U	0.0015 U
SW-19	May '09	0.010 U	0.010 U	0.0250 U	0.003 U
SW-19 DUP (DUP052109)	May '09	0.0031 B	0.010 U	0.0250 U	0.003 U
SW-19	Nov '09	0.0035 J	0.00253 J	0.0250 U	0.003 U
SW-19	**Apr '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**
SW-19	**Jul '10**	**0.00388 J**	**0.00351 J**	**0.0250 U**	**0.00158 J**
SW-19	**Oct '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**
SW-9	Feb '93	0.005 U	0.169	0.032	0.0068
SW-9 DUP	Feb '93	0.005 U	0.175	0.025 U	0.0058
SW-9	Nov '03	0.005 U	0.0094	0.025 U	0.005 U
SW-9	Feb '04	0.005 U	0.0054	0.025 U	0.003 U
SW-9	May '04	0.005 U	0.0076	0.025 U	0.003 U
SW-9	Aug '04	0.005 U	0.0055	0.025 U	0.003 U
SW-9	Nov '04	0.005 U	0.0058	0.025 U	0.003 U
SW-9 DUP	Nov '04	0.005 U	0.005	0.025 U	0.003 U
SW-9	Mar '05	0.005 U	0.005 U	0.025 U	0.003 U
SW-9 DUP	Mar '05	0.005 U	0.005 U	0.025 U	0.003 U
SW-9	May '05	0.005 U	0.005 U	0.010 U	0.003 U
SW-9	Jan '06	0.005 U	0.005 U	0.010 U	0.003 U
SW-9	Mar '06	0.003 U	0.0021	0.025 U	0.0015 U
SW-9	Jul '06	0.0033	0.0020 U	0.025 U	0.0015 U
SW-9	Oct '06	0.0030 U	0.0020 U	0.010 U	0.0015 U
SW-9	May '07	0.0030	0.0020 U	0.010 U	0.0015 U
SW-9	Jul '07	0.0030 U	0.0020 U	0.025 UN	0.0015 U
SW-9	Oct '07	0.0033	0.0029	0.029	0.0015 U
SW-9	Apr '08	0.003 U	0.002 U	0.010 U	0.002 U
SW-9	Sep '08	0.003 U	0.002 U	0.010 U	0.0015 U
SW-9	May '09	0.010 U	0.010 U	0.0250 U	0.0015 U
SW-9	Nov '09	0.00344 J	0.00267 J	0.0250 U	0.003 U
SW-9 DUP (DUP-110209)	Nov '09	0.010 U	0.00242 J	0.0250 U	0.003 U
SW-9	**Apr '10**	**0.010 U**	**0.00329 J**	**0.0250 U**	**0.00315**
SW-9	**Jul '10**	**0.00419 J**	**0.00478 J**	**0.0250 U**	**0.00192 J**
SW-9	**Oct '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**

TABLE 3-9

METALS DETECTED IN SURFACE WATER

Grenada Manufacturing Site
Grenada, Mississippi

Sample Location	Sample Date	Arsenic (mg/L)	Chromium (total) (mg/L)	Hexavalent Chromium (mg/L)	Lead (mg/L)
Mississippi and EPA Aquatic Life Criteria[a]					
Acute		0.34 (III)	--	0.016	0.03
Chronic		0.15 (III)	--	0.011	0.0018
Mississippi Surface Water Human Health Criteria[b]		0.024 (Total)	--	1.47	--
SW-17A	May '93	0.005 U	0.084	0.035	0.004 X
SW-17B	May '93	0.005 U	0.083	0.026	0.0054 X
SW-17C	May '93	0.005 U	0.085	0.025 U	0.003 U
SW-17	Nov '03	0.005 U	0.0095	0.025 U	0.005 U
SW-17	Feb '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-17	May '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-17	Aug '04	0.005 U	0.0079	0.025 U	0.003 U
SW-17	Nov '04	0.005 U	0.005 U	0.025 U	0.003 U
SW-17	Mar '05	0.005 U	0.005 U	0.025 U	0.003 U
SW-17	May '05	0.005 U	0.005 U	0.010 U	0.003 U
SW-17 DUP	May '05	0.005 U	0.005 U	0.010 U	0.003 U
SW-17	Jan '06	0.005 U	0.005 U	0.010 U	0.003 U
SW-17	Mar '06	0.0032	0.0054	0.025 U	0.0015 U
SW-17	Jul '06	0.003 U	0.002 U	0.025 U	0.0015 U
SW-17	Oct '06	0.003 U	0.002 U	0.010 U	0.0018
SW-17	May '07	0.003 U	0.002 U	0.010 U	0.0015 U
SW-17	Jul '07	0.0032	0.002 U	0.010 UNK	0.0015 U
SW-17	Oct '07	0.0033	0.003	0.036	0.0017
SW-17	Apr '08	0.003 U	0.0021 B	0.010 U	0.0026 B
SW-17	Sep '08	0.003 U	0.002 U	0.010 U	0.0015 U
SW-17	May '09	0.010 U	0.010 U	0.0250 U	0.003 U
SW-17	Nov '09	0.00346 J	0.00309 J	0.0250 U	0.003 U
SW-17	**Apr '10**	**0.010 U**	**0.00389 J**	**0.0250 U**	**0.003 U**
SW-17	**Jul '10**	**0.00391 J**	**0.00217 J**	**0.0250 U**	**0.003 U**
SW-17	**Oct '10**	**0.010 U**	**0.010 U**	**0.0250 U**	**0.003 U**

Notes:
U = Below Detection Limit
D = Result from sample dilution
J = Result was estimated
X = Result associated with a laboratory contaminant
N = Predigested spike recovery not within control limits
NA = Not Available or Not Analyzed
K = The sample was analyzed outside of the USEPA hold time
[a]Based on a hardness concentration of 50 mg/L as $CaCO_3$
[b]For human consumption of organisms only.
Values obtained from: *Mississippi Commission on Environmental Quality Regulation WPC-2: Water Quality Criteria for Intrastate, Interstate, and Coastal Waters*

TABLE 3-10
PRODUCT RECOVERY SUMMARY
Grenada Manufacturing Site
Grenada, Mississippi

Date	LNAPL																								LNAPL Recovery (gallons)	LNAPL Drum (gallons)	Operators
	RC-1						RC-2						RC-3						RC-4								
	PID (ppm)	DTP (ft)	DTW (ft)	DTB (ft)	PT (ft)	Product Recovered (gallons)	PID (ppm)	DTP (ft)	DTW (ft)	DTB (ft)	PT (ft)	Product Recovered (gallons)	PID (ppm)	DTP (ft)	DTW (ft)	DTB (ft)	PT (ft)	Product Recovered (gallons)	PID (ppm)	DTP (ft)	DTW (ft)	DTB (ft)	PT (ft)	Product Recovered (gallons)			
2/6/2004		-	-	-	0.00			-	-	-	0.20			-	-	-	0.00			-	-	-	0.10		5.00	0	H.D., G.M.
2/24/2004		-	-	-	0.00			-	-	-	2.30			-	-	-	0.00			-	-	-	2.70		0.00	47.60	H.D., G.M.
4/28/2004		-	-	-	0.00			-	-	-	3.40			-	-	-	0.00			-	-	-	3.50		5.00	0.00	H.D., J.F.
5/21/2004		-	-	-	0.00			-	-	-	3.50			-	-	-	0.00			-	-	-	3.90		5.00	0.00	R.H., G.M.
7/12/2004		-	-	-	NR			-	-	-	NR			-	-	-	NR			-	-	-	3.60		2.00	NR	E.R., J.L.
7/30/2004		-	-	-	NR			-	-	-	0.20			-	-	-	NR			-	-	-	0.60		3.00	NR	J.L., T.M.
10/1/2004		-	-	-	*1.20*			-	-	-	0.00			-	-	-	*1.00*			-	-	-	0.00		2.50	10.20	R.H., L.F.
10/20/2004		-	-	-	0.00			-	-	-	0.30			-	-	-	0.00			-	-	-	0.30		2.50	8.50	R.H., J.L.
11/19/2004		-	-	-	0.00			-	-	-	2.60			-	-	-	0.00			-	-	-	2.50		2.50	10.20	S.L., J.L.
12/3/2004		-	-	-	*0.60*			-	-	-	0.00			-	-	-	*1.00*			-	-	-	0.00		2.50	7.90	R.H., S.L.
12/20/2004		-	-	-	0.00			-	-	-	2.20			-	-	-	0.00			-	-	-	2.20		2.50	18.70	L.F., J.L.
1/6/2005		-	-	-	0.00			-	-	-	2.40			-	-	-	0.00			-	-	-	2.30		2.50	20.40	L.F., J.L.
1/17/2005		-	-	-	0.00			-	-	-	2.50			-	-	-	0.00			-	-	-	2.30		2.50	29.10	L.F., J.L.
2/10/2005		-	-	-	0.00			-	-	-	0.80			-	-	-	0.00			-	-	-	0.80		2.50	25.50	S.L., J.L.
2/22/2005		-	-	-	0.00			-	-	-	2.90			-	-	-	0.00			-	-	-	2.80		2.50	25.00	S.L., M.H.
3/10/2005		-	-	-	0.00			-	-	-	3.00			-	-	-	0.00			-	-	-	3.00		2.50	54.00	S.L., M.H.
5/9/2005		-	-	-	"NA"			-	-	-	3'2"			-	-	-	"NA"			-	-	-	3'4"		2.50	53	J.L., J.G.
6/22/2005		-	-	-	*3'0"*			-	-	-	0			-	-	-	*2'9"*			-	-	-	0		2.50	10	R.H., S.L.
7/5/2005		-	-	-	*2'7"*			-	-	-	"N/A"			-	-	-	*2'8"*			-	-	-	"N/A"		2.50	8.5	R.H., J.L.
8/18/2009	FID: 16.4	ND	11.27	17.25	0.00	-	FID: 3835 (Out of Range)	ND	11.75	16.62	0.00	0.00	FID: 6.4	ND	11.22	16.62	0.00	-	FID: 744	11.68	11.68	17.82	Sheen	0.00	0.00	0.00	EM
10/27/2009	0.70	ND	10.72	NM	-	-	29.70	10.85	13.98	NM	3.13	0.00	0.70	ND	10.45	NM	0.00	-	29.30	10.78	13.94	NM	3.16	0.00	-	-	SB
11/3/2009	NM	10.68	10.68	NM	Sheen	-	NM	10.88	13.84	NM	2.96	1.924	NM	ND	10.49	NM	0.00	-	NM	10.82	13.58	NM	2.76	1.794	3.72	3.72	EM, SB
4/13/2010	**-**	**-**	**-**	**-**	**-**	**-**	**0**	**9.74**	**13.91**	**NM**	**4.17**	**6.19**	**-**	**-**	**-**	**-**	**-**	**-**	**0**	**9.67**	**13.80**	**NM**	**4.13**	**5.37**	**11.56**	**11.56**	**EM, PS**
10/19/2010	**0**	**ND**	**12.35**	**NM**	**0.00**	**-**	**2300**	**13.20**	**14.35**	**NM**	**1.15**	**1.5**	**0**	**ND**	**12.78**	**NM**	**0.00**	**-**	**2415**	**13.15**	**14.30**	**NM**	**1.15**	**1.5**	**3.00**	**1.50**	**EM, PS**
																							Recovery Total 2010:		**14.56**	**13.06**	

Estimated total LNAPL recovery - 50 to 100 gallons

Notes
*10/1/04 and subsequent LNAPL recovery values reported as 1.00 gallons from RC-2 and 1.5 gallons from RC-4
Italicized - likely a field or transcription error
All values prior to 5/9/05 reported in 2 decimal places ending in zero
Values in quotes are as written
NR = not recorded
NM = not measured

Appendix A

Field Sample Data Forms

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-2

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☒ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1630

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 9.87 ft.

Depth to Well Bottom 20.55 ft.

Feet of Water in Well 10.68 ft.

Calculated Volume of Water in Well 1.75 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing Other

Concrete Pad/ Condition: Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/14/10 Time: 940

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 0942

Purge End Time 1042

Volume Purged 5.25 gal.

Well Evacuated? ☐ Yes ☒ No

JMW tubing insertion method was used at MW-2 with success

Time Series Data

Instruments: Horiba, U-22

Calibrated: Date 4/14/10

Time	0942	1006	1019	1042		
Well Volumes	0	1	2	3		
Temp	16.5	16.7	16.6	16.6		
pH	5.08	5.10	5.18	5.14 ✓		
COND	1.57	1.56	1.57	1.57 ✓		
DO	1.31	0.0	0.0	0.0 ✓		
ORP	156	62	37	41		
Color	0.0 Clr	40/Clr	6.6/Clr	10.2 Clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/14/10 Time: 1045

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 3

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-5

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 60 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/8/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0825

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 12.29 ft.

Depth to Well Bottom 22.35 ft.

Feet of Water in Well ~~10.85~~ 10.09 ft.

Calculated Volume of Water in Well 1.65 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/8/10 Time: 0837

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 837

Purge End Time 938

Volume Purged ~ 5.1 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments:	Horiba U-22					
Calibrated: Date	4/8/10					
Time	0837	0845	0913	0938		
Well Volumes	0	1	2	3		
Temp	15.6	16.3	16.5	16.4		
pH	5.69	6.05	6.05	6.04		
COND	0.579	0.504	0.505	0.502		
DO	3.60	0.00	0.00	0.00		
ORP	206	195	193	193		
Color	31.7 (c)	21.1 (c)	0.0 (c)	0.0 (c)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1005

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : Clear

Immiscible Liquid: —

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/8/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-6

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 70° °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1300

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 8.26 ft.

Depth to Well Bottom 18.66 ft.

Feet of Water in Well 10.40 ft.

Calculated Volume of Water in Well 1.71 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition: Master (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/14/10 Time: 0915

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other: Teflon

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0915

Purge End Time 1015

Volume Purged 6.0 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U-22X

Calibrated: Date 4/14/10

Time	0915	0935	0948	0955	1010	1015
Well Volumes	0	1.8	3.0	3.6	5.4	6.0
Temp	16.90	16.8	16.57	16.56	17.29	17.07
pH	5.97	5.82	5.79	5.77	5.82	5.81
COND	1.42	1.32	1.07	0.92	0.90	0.90
DO	3.29	0.00	0.08	0.23	0.29	0.33
ORP	-94	-99	-75	-70	-64	-63
Color	446/clr	181.0	0/clr	7.3/clr	0/clr	-/clr

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/14/10 Time: 1015

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 3

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] 4/14/10

SIGNATURE DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-7

PROJECT: Grenada Biannual Sampling PERSONNEL: EM + PS

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/7/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time:

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 9.08 ft.

Depth to Well Bottom 16.2 ft.

Feet of Water in Well 7.12 ft.

Calculated Volume of Water in Well 1.2 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Flush Mt. (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/9/10 Time: 1230

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1230

Purge End Time 1310

Volume Purged 3.6 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horriba U22X

Calibrated: Date 4/9/10

Time	1230	1242	1257	1310		
Well Volumes	0	1.2	2.4	3.6		
Temp	16.6	15.9	15.8	15.9		
pH	5.41	5.34	5.40	5.45		
COND	0.561	0.536	0.529	0.528		
DO	0.16	0.51	0.49	0.40		
ORP	189	202	208	204		
Color	40/clr	12/clr	47/clr	51/clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/9/10 Time: 1315

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☒ Yes ☐ No

Number of Bottles Filled: 10

Comments Duplicate collected - DUP (040910) (Time 1130)

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE 4/7/10 DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-8

PROJECT: Grenada Biannual Sampling PERSONNEL: EM & PS

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 65 °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 4/9/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 752 ft.

Depth to Well Bottom 50 ft.

Feet of Water in Well 42.48 ft.

Calculated Volume of Water in Well 6.97 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged 3x Date: 4/9/10 Time: 1030

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1030

Purge End Time 1330

Volume Purged 21 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U22X

Calibrated: Date 4/9/10

Time	1030	1130	1235	1300	1330	
Well Volumes	0	7	14	17	21	
Temp	16.4	17.3	17.5	17.4	17.5	
pH	6.17	5.97	5.93	5.96	5.98	
COND	0.437	0.387	0.378	0.378	0.376	
DO	0.90	0.00	0.00	0.00	0.00	
ORP	202	34	28	27	26	
Color	235/clr	32.1/clr	40/clr	51.9/clr	120/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/9/10 Time: 1340

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

EJ GM 84 (SIGNATURE) 4/9/10 (DATE)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-9

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater - E. McFee Jr.

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 65 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/10/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1400

Intake Screen: ☐ Stainless Steel ☑ PVC ☐ Other

Depth to Static Water Level 4.35 ft.

Depth to Well Bottom 80 ft.

Feet of Water in Well 75.65 ft.

Calculated Volume of Water in Well 12.41 gal. (0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter)

Note: Well "artishian" (spelling?) add a 5ft 2" PVC Riser section to TOC to allow well DTW to equilibrate. Actual TD = 75

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/12/10 Time: 825

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0830

Purge End Time 1137

Volume Purged 37.23 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 4/12

Time	0830	0935	1035	1137
Well Volumes	0	1	2	3
Temp	18.6	19.1	19.0	19.4
pH	6.13	6.35	6.37	6.29
COND	0.671	0.655	0.652	0.647
DO	7.11	0.00	0.00	0.00
ORP	-15	-90	-92	-92
Color	3.2 Clr	14.7 Clr	19.9	22.8 Clr

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/12/10 Time: 1145

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/12/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-10

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 60 °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 4/8/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0835

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 13.58 ft.

Depth to Well Bottom 50.05 ft.

Feet of Water in Well 36.47 ft.

Calculated Volume of Water in Well 5.98 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/8/10 Time: 0840

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 0840

Purge End Time 1157

Volume Purged 18 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments:	Horiba U-22					
Calibrated: Date	4/8/10					
Time	0840	0945	1057	1157		
Well Volumes	0	1	2	3		
Temp	17.2	17.7	17.8	17.9		
pH	5.20	5.89	5.88	5.87		
COND	0.858	0.715	0.705	0.711		
DO	3.61	0.49	0.0			
ORP	136	26	22	21		
Color	15.3(c)	1.5(c)	0.0(c)	0.0(c)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1205

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color: Clear

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/8/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-11

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/7/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 7.27 ft.

Depth to Well Bottom 20.85 ft.

Feet of Water in Well 14.50 ft.

Calculated Volume of Water in Well 2.23 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition: Lock Type: Master Key Number:

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/9/10 Time: 1040

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1040

Purge End Time 1140

Volume Purged 7.5 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U-22X

Calibrated: Date 4/9/10

Time	1040	1102	1123	1133	1140	
Well Volumes	0	2.5	5.0	6.0	7.5	
Temp	16.52	16.77	16.05	16.17	16.18	
pH	6.17	6.27	6.30	6.33	6.33	
COND	1.86	1.19	1.02	0.93	0.92	
DO	0.00	0.00	0.00	0.00	0.00	
ORP	~~[illegible]~~ 70	53	58	62	62	
Color	54/clr	clr	clr	3.3/clr	16/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/9/10 Time: 1330

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☑ Yes ☐ No

Number of Bottles Filled: 15

Comments MS/MSD collected

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/9/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-12

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 65 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/9/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1030

Intake Screen: ☐ Stainless Steel ☑ PVC ☐ Other

Depth to Static Water Level 6.62 ft.

Depth to Well Bottom 22.45 ft.

Feet of Water in Well 15.83 ft.

Calculated Volume of Water in Well 2.60 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/9/10 Time: 1035

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1040

Purge End Time 1220

Volume Purged 7.8 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 4/9/10

Time	1040	1110	1145	1220		
Well Volumes	0	1	2	3		
Temp	17.3	17.9	18.1	18.3		
pH	5.98	6.01	6.01	6.01		
COND	0.494	0.311	0.305	0.302		
DO	3.29	1.29	1.12	1.22		
ORP	156	121	101	93		
Color	127.0	2.3 (C)	0.0 (C)	0.0 (C)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/9/10 Time: 1225

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☐ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/9/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-13

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 60 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/8/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1055

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 10.23 ft.

Depth to Well Bottom 23.34 ft.

Feet of Water in Well 13.11 ft.

Calculated Volume of Water in Well 1.76 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing Other

Concrete Pad/ Condition: Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/8/10 Time: 1100

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1104

Purge End Time 1150

Volume Purged 4.8 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments:	Horiba U-22					
Calibrated:	Date 4/8/10					
Time	1104	1125	1135	1150		
Well Volumes	0	1	2	3		
Temp	16.47	16.66	16.68	16.68		
pH	5.92	5.84	5.85	5.82		
COND	0.918	0.886	0.887	0.885		
DO	5.05	2.82	4.26	4.38		
ORP	74	138	159	166		
Color	491 (Cloudy)	193.cloudy	99 (C)	101.2 (C)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1225

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: –

Filter Size: – micron

Sampling Appearance: ☐ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] SIGNATURE 4/8/10 DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-14

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 60 °F

Other:

WELL DATA

Casing: Diameter (inches) _____ Date: 4/8/10

Type: ☐ Stainless Steel ☐ PVC ☐ Other _____ Time: 0845

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other _____

Depth to Static Water Level 16.42 ft.

Depth to Well Bottom 27.17 ft.

Feet of Water in Well 10.75 ft.

Calculated Volume of Water in Well 1.76 gal. (0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter)

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☐ Top of Inner Casing ☐ Procasing

Other _____

Concrete Pad/ Condition: _____ Lock Type _____ Key Number _____

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/8/10 Time: 0845

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other: _____

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other: _____

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0845

Purge End Time 1000

Volume Purged ~5.4 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 4/8/10

Time	0845	0910	0930	1000		
Well Volumes	0	1	2	3		
Temp	17.95	16.93	17.10	16.89		
pH	5.71	6.17	6.19	6.17		
COND	0.90	0.90	0.90	0.90		
DO	4.15	0.03	0.00	0.05		
ORP	-2	-72	-76	-77		
Color	-5.0	46.1(C)	6.2(C)	0.9(C)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1010

Other: _____ (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other: _____

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color: Clear

Immiscible Liquid: _____

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments ~ Fe precipitate in water column ~

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE _____ DATE 4/8/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-15

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 70 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4-6-10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1300

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 12.6 ft.

Depth to Well Bottom 23.34 ft.

Feet of Water in Well 10.74 ft.

Calculated Volume of Water in Well 1.76 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3

Date: 4/14/10 Time: 0925

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Teflon

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0925

Purge End Time 1030

Volume Purged 6.0 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U22X

Calibrated: Date 4/14/10

Time	0925	0942	1000	1015	1020	1030
Well Volumes (gal)	0	1.8	2.5	3.6	4.4	6.0
Temp	15.8	15.7	15.9	16.0	16.1	16.2
pH	5.25	5.30	5.33	5.36	5.36	5.36
COND	0.473	0.446	0.445	0.455	0.452	0.453
DO	3.83	0.00	0.00	0.06	0.00	0.00
ORP	263	273	274	276	277	277
Color	130/clr	96/clr	96/clr	58.7/clr	85.5	75.5

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/14/10 Time: 1030

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color: lt. Brown

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 3

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

4/14/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-16

PROJECT: Grenada Biannual Sampling PERSONNEL: E. McPeek

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 55 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 8.23 ft.

Depth to Well Bottom 17.60 ft.

Feet of Water in Well ' ft.

Calculated Volume of Water in Well 1.54 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/8/10 Time: 0840

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☐ Disposable ☐ Field Cleaned

Purge Start Time 0840

Purge End Time 0930

Volume Purged 5.0 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba

Calibrated: Date 4/8/10

Time	0840	0855	0907 ~~0877~~	0915	0930 ~~0929~~	
Well Volumes	0	1.6	3.2	4.0	5.0	
Temp	13.9	14.1	14.4	14.4	14.5	
pH	4.89	4.91	4.88	4.87	4.86	
COND	7.56	7.00	6.54	6.48	6.39	
DO	2.06	0.17	0.09	0.02	0.01	
ORP	176	164	167	169	171	
Color	341/clr	323/clr	255/clr	56/clr	36/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1000

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

4/8/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-17

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 04/06/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1500

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 9.03 ft.

Depth to Well Bottom 48.44 ft.

Feet of Water in Well 39.41 ft.

Calculated Volume of Water in Well 6.46 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☐ Yes ☒ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 04/14/10 Time: 915

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 930

Purge End Time 1225

Volume Purged 21 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: HORIBA U-22

Calibrated: Date 04/14/10

Time	930	1027	1124	1221		
Well Volumes	0	1	2	3		
Temp	17.5	17.9	17.9	18.0		
pH	5.85	5.98	5.90	5.94		
COND	0.614	0.578	0.572	0.573		
DO	3.06	0.13	0.03	0.01		
ORP	171	-16	-48	-67		
Color	140	14.7	20.3	12.8		

SAMPLE DATA

Sampling Method:: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Date: 04/14/10 Time: 1225

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 3

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-23

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/7/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 7.25 ft.

Depth to Well Bottom 22.50 ft.

Feet of Water in Well 15.25 ft.

Calculated Volume of Water in Well 2.50 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☐ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type: FM Key Number:

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/12/10 Time: 1025

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1025

Purge End Time 1120

Volume Purged 7.5 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U-22X

Calibrated: Date 4/12/10

Time	1025	1037	1042	1055	1115	1120
Well Volumes	0	2.0	2.50	5.0	7.0	7.5
Temp	17.9	17.8	17.9	17.9	18.0	17.9
pH	6.46	6.45	6.44	6.42	6.34	6.35
COND	1.01	0.98	0.95	0.90	0.90	0.90
DO	0.83	0.00	0.00	0.00	0.00	0.00
ORP	128	62	66	82	112	113
Color	185/clr	97.9/clr	49.5/clr	33/clr	19/clr	11.7/clr

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/12/10 Time: 1130

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 7

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE: [signature] DATE: 4/12/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-25

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater - E. McPeek

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 75 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/7/10

Type: ☒ Stainless Steel ☐ PVC ☐ Other Time: 1700

Intake Screen: ☒ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 6.73 ft.

Depth to Well Bottom 22.4 ft.

Feet of Water in Well 15.67 ft.

Calculated Volume of Water in Well 2.57 gal. (0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter)

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing Other

Concrete Pad/ Condition: Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/9/10 Time: 1425

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☐ Disposable ☐ Field Cleaned

Purge Start Time 1426

Purge End Time 1600

Volume Purged 7.8 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments:	Horiba U-22					
Calibrated: Date	4/9/10					
Time	1428	1452	15	1600		
Well Volumes	0	1	2	3		
Temp	18.5	19.2	19.5	19.6		
pH	5.87	5.92	5.94	5.93		
COND	0.290	0.291	0.296	0.300		
DO	3.57	3.59	3.31	0.92		
ORP	141	193	196	96		
Color	307	114/clr	102/clr	147/c		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/9/10 Time: 1610

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-41

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 04/07/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time:

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 14.36 ft.

Depth to Well Bottom 27.20 ft.

Feet of Water in Well 12.84 ft.

Calculated Volume of Water in Well 2.10 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition: Good

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/7/10 Time: 1358

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1400

Purge End Time

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments:	Horiba U-22					
Calibrated: Date	4/7/10					
Time	1400	1418	1435			
Well Volumes	0	1	2	3		
Temp	17.7	17.9	17.9	17.8		
pH	8.19	9.40	9.50	9.50		
COND	0.90	0.948	0.889	0.891		
DO	1.8	0.00	0.0	0.00		
ORP	-260	304	-298	-297		
Color	9.9(C)	3.8(C)	7.8(C)	13.3(C)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1500

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? — ☐ Yes ☒ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color: Clear

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-42

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: ~~NO~~ 4/7/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1240

Intake Screen: ☐ Stainless Steel ☑ PVC ☐ Other

Depth to Static Water Level 14.61 ft.

Depth to Well Bottom 50.45 ft.

Feet of Water in Well 35.84 ft.

Calculated Volume of Water in Well 5.85 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/7/10 Time: 1240

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1245

Purge End Time

Volume Purged gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments:	Horiba U-22					
Calibrated: Date	4/07/10					
Time	1245		1455	1550		
Well Volumes	0	1	2	3		
Temp	18.3	18.3	18.3	18.1		
pH	6.36	6.37	6.37	6.32		
COND	0.622	0.766	0.784	0.791		
DO	0.98	0.0	6.00	0.0		
ORP	-125	-191	-193	-195		
Color	10.2(C)	4.1(C)	0.0(C)	0.0(C)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1555

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-43

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: GWM

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/8/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 13.92 ft.

Depth to Well Bottom 24.35 ft.

Feet of Water in Well 10.43 ft.

Calculated Volume of Water in Well 1.71 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Screen Interval ft.

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☐ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Fa

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 4/14/10 Time: 1310

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other: Si

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 13:10

Purge End Time 15:20

Volume Purged 17 Liters gal. @ 100 mL/min.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U-22x

Calibrated: Date 4/14/10

Time	1310	1325	1350	1405	1415	1426	1443	1453	1503	1513	
DTW(ft) / Vol. (L)	14.07/0	"/1.5	"/4.0	"/5.5	"/6.5	"/7.6	"/9.3	"/10.3	"/11.3	"/12.3	
Temp	17.9	17.6	17.6	17.7	17.6	17.6	17.6	17.6	17.5	17.4	
pH	10.53	9.91	10.31	10.53	10.63	10.65	10.69	10.60	10.63	10.64	
COND	0.548	0.563	0.620	0.635	0.636	0.633	0.637	0.634	0.631	0.635	
DO	3.69	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ORP	34	-5	-93	-118	-130	-137	-90	-121	-134	-145	
Turb/Color	280.0	204	218	220	249	207	317	206	305	307	

SAMPLE DATA

Sampling Method:: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Date: 4/14/10 Time: 15:20

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments Turb. meter likely malfunctioning / water is very clear.
Low flow sampling @ 100mL/min performed

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-44

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK: GWM
Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 80 °F
Other:

WELL DATA

Casing: Diameter (inches) 2
Date: 4/8/10
Type: ☐ Stainless Steel ☑ PVC ☐ Other
Time: 1700
Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 13.23 ft.
Depth to Well Bottom 46.1 ft.
Feet of Water in Well 32.87 ft.
Calculated Volume of Water in Well 5.39 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter
Screen Interval ft.

Is well in good condition? ☑ Yes ☐ No
Is well visible? ☑ Yes ☐ No
Is well accessible? ☑ Yes ☐ No
Is drainage acceptable? ☑ Yes ☐ No
Is well labeled? ☑ Yes ☐ No
Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing
Other
Concrete Pad/ Condition:
Lock Type
Key Number

PURGING DATA

Number of Well Volumes Purged
Date: 4/14/10 Time: 1300

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:
Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si
Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:
Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1300
Purge End Time 1550
Volume Purged 17 L gal. @ 100mL/min.
Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horiba - U22X
Calibrated: Date 4/14/10

Time	1300	1325	13.46	1355	1405	1427	1445	1455	1515	1525	1550
DTW(ft) / Vol. (L)	13.38/0	"/2.5L	"/4.6	"/5.5	"/6.5	"/8.7	"/10.5	"/11.5	"/13.5	"/14.5	"/17
Temp	19.2	18.86	18.69	19.33	19.36	19.09	19.05	19.00	18.96	19.93	19.85
pH	9.40	9.61	9.79	9.92	10.14	10.38	10.28	10.23	10.35	10.33	10.47
COND	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
DO	3.71	3.37	3.63	3.33	4.61	5.02	5.63	5.85	6.34	6.15	6.28
ORP	-197	-202	-197	-200	-210	-223	-177	-205	-231	-218	-221
Turb/Color	324/dr	128	109	101	92	109	82.4	123	41.2	47.2	11.0

SAMPLE DATA

Sampling Method:: ☑ Peristaltic ☐ Bailer ☐ Sub Pump
Other:
Date: 4/14/10 Time: 1550
(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si
Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned
Metals Field Filtered? ☐ Yes ☑ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:
Duplicate Collected? ☐ Yes ☑ No
Number of Bottles Filled: 5

Comments Low flow sampling @ 100 mL/min
Cond. meter malfunctioning

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE
4/14/10
DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-45

PROJECT: Grenada Biannual Sampling PERSONNEL: P. Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/7/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☑ PVC ☐ Other

Depth to Static Water Level 9.46 ft.

Depth to Well Bottom 27.48 ft.

Feet of Water in Well 18.02 ft.

Calculated Volume of Water in Well 2.94 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing Other

Concrete Pad/ Condition: Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/7/10 Time: 1100

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1105

Purge End Time

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U22

Calibrated: Date 4/7/10

Time	1105	1135	1158	1225	1090	Sample?
Well Volumes	0	1	2	3		
Temp	18.90	16.9	16.9	17.1	✓	
pH	5.59	5.44	5.81	5.84	✓	
COND	1.29	0.999	.999	.999	✓	
DO	4.87	0.01	0.03	0.06		
ORP	185	213	200	200	✓	
Color	50.8	5.1(C)	4.4(C)	5.1(C)		

SAMPLE DATA

Sampling Method:: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Date: 04/07/10 Time: 1230

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: –

Filter Size: – micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color: Clear

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-46

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☒ Partly Cloudy ☐ Cloudy ☐ Rain ☒ Snow ☒ Windy Temperature: 80 °F

Other: Chance of rain

WELL DATA

Casing: Diameter (inches) _____ Date: 4/7/10

Type: ☐ Stainless Steel ☐ PVC ☐ Other _____ Time: 1020

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other _____

Depth to Static Water Level 9.23 ft.

Depth to Well Bottom 48.85 ft.

Feet of Water in Well 39.57 ft.

Calculated Volume of Water in Well 6.45 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other _____

Concrete Pad/ Condition: _____ Lock Type _____ Key Number _____

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/7/10 Time: 1037

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other: _____

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☒ PE Other: _____

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other: _____

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1037

Purge End Time _____

Volume Purged _____ gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data (10%)

Instruments: Horiba U22

Calibrated: Date 4/7/10

Time	1037	1125	1250	1330		
Well Volumes	0	1	2	3		
Temp	17.75	17.95	17.96	18.22		
pH	5.73	5.97	6.03	6.07		
COND	0.90	0.90	0.90	0.90		
DO	0.40	0.21	0.11	0.19		
ORP	4	16	15	15		
Color	277	35.4(C)	39.4(C)	48.1(C)		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1340

Other: _____ (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other: _____

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: —

Filter Size: — micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : Clear

Immiscible Liquid: _____

Duplicate Collected? ☒ Yes ☐ No

Number of Bottles Filled: 10

Comments DUP(040710) (Time 1030)

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE _____ DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-47

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☑ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1300

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 13.32 ft.

Depth to Well Bottom 27.68 ft.

Feet of Water in Well 14.36 ft.

Calculated Volume of Water in Well 2.4 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☐ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/7/10 Time: 1300

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1300

Purge End Time 1350

Volume Purged 7.5 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments:

Calibrated: Date 4/7/10

Time	1300	1310	1330	1350		
Well Volumes	0	2.5	5.0	7.5		
Temp	17.8	17.7	17.9	17.8		
pH	6.29	6.27	6.63	6.75		
COND	0.289	0.290	0.292	0.288		
DO	0.00	0.00	0.00	0.00		
ORP	-100	-120	-147	-158		
Color	5.9/dr	7.2/dr	15.1/dr	23.2/dr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1400

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

4/7/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-48

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☐ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 12.43 ft.

Depth to Well Bottom 52.60 ft.

Feet of Water in Well 40.17 ft.

Calculated Volume of Water in Well 6.5 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/7/10 Time: 1255

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1255

Purge End Time 1445

Volume Purged 19.5 gal.

Well Evacuated? ☐ Yes ☐ No

Time Series Data

Instruments: Hor. U22-X

Calibrated: Date 4/7/10

Time	1255	1315	1330	1410	1430	1445
Well Volumes	0	4.5	6.5	13.0	17.0	19.5
Temp	17.3	17.3	17.3	17.4	17.3	17.6
pH	6.09	6.28	6.44	6.50	6.52	6.55
COND	0.394	0.434	0.455	0.460	0.462	0.464
DO	5.90	2.0	0.00	0.00	0.00	0.00
ORP	~~0.394~~ 94	-38	-95	-110	-113	-114
Color	324/clr	67.8/clr	171/clr	4.6/clr	8.5/clr	24.9/clr

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1445

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

4/7/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-49

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK:
Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 80 °F
Other:

WELL DATA

Casing: Diameter (inches) 2
Date: 4/8/10
Type: ☐ Stainless Steel ☑ PVC ☐ Other
Time: 1700
Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 11.75 ft.
Depth to Well Bottom 48 ft.
Feet of Water in Well 36.25 ft.
Calculated Volume of Water in Well 5.95 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter
Screen Interval ft.

Is well in good condition? ☑ Yes ☐ No
Is well visible? ☑ Yes ☐ No
Is well accessible? ☑ Yes ☐ No
Is drainage acceptable? ☑ Yes ☐ No
Is well labeled? ☑ Yes ☐ No
Is well locked? ☐ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing
Other
Concrete Pad/ Condition:
Lock Type
Key Number

PURGING DATA

Number of Well Volumes Purged
Date: 4/14/10 Time: 1550

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:
Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si
Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:
Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1550
Purge End Time 1735
Volume Purged 10.5 ~~gal.~~ L @100 mL/min.
Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horiba U22XD
Calibrated: Date 4/14/10

Time	1550	1625	1635	1700	1710							
DTW(ft) / Vol. (L)	12.1/0	"/3.5	"/4.5	"/7.0	"/8							
Temp	17.2	17.3	17.3	12.4	12.3							
pH	8.81	8.71	9.01	9.17	9.17							
COND	0.306	0.90	13.4	0.90	0.512							
DO	0.41	0.05	0.02	0.01	0.00							
ORP	-198	-331	-374	-391	-407							
Turb/Color	58/clr	73	12.6	11.7	29.0							

SAMPLE DATA

Sampling Method:: ☑ Peristaltic ☐ Bailer ☐ Sub Pump
Other:
Date: 4/14/10 Time: 1735
(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si
Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned
Metals Field Filtered? ☐ Yes ☑ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:
Duplicate Collected? ☐ Yes ☑ No
Number of Bottles Filled: 5

Comments Low flow sampling @ 100mL/min
Cond. meter malfunctioning

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE
4/14/10
DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-50

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Gw

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/8/10

Type: ☐ Stainless Steel ☐ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 11.88 ft.

Depth to Well Bottom 24.03 ft.

Feet of Water in Well 12.15 ft.

Calculated Volume of Water in Well 2 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Screen Interval ft.

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Fm

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 4/14/10 Time: 1545

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1545

Purge End Time 1730

Volume Purged 22.5 gal. @100 mL/min

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horriba U22X

Calibrated: Date 4/14/10

Time	1545	1600	1625	1635	1600	1710					
DTW(ft) / Vol. ( )	12.15 / 0	12.18 / 1.5	" / 4.0	" / 5.0	" / 7.5	" / 8.5					
Temp	22.8	16.8	16.8	16.7	16.3	15.7					
pH	8.96	6.90	6.89	6.75	7.06	7.31					
COND	0.90	0.90	0.90	0.90	0.90	0.90					
DO	3.66	0.82	1.18	0.97	0.00	0.00					
ORP	-8	-187	-175	-159	-305	-350					
Turb/Color	0.0	0.0	0.0	0.0	370	346					

SAMPLE DATA

Sampling Method:: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Date: 4/14/10 Time: 1730

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: Si

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments ~~[illegible]~~ water quality meter cond. not reading well

Low flow sampling @ 100 mL/min

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-51

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☑ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☑ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 9.92 ft.

Depth to Well Bottom 27.60 ft.

Feet of Water in Well 17.68 ft.

Calculated Volume of Water in Well 2.9 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/7/10 Time: 1040

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1040

Purge End Time 1200

Volume Purged 9.0 gal.

Well Evacuated? ☐ Yes ☐ No

Time Series Data

Instruments: Hor U-22x

Calibrated: Date 4/7/10

Time	1040	1105	1115	1130	1200	
Well Volumes	0	3.0	5.0	6.0	9.0	
Temp	16.5	16.2	16.1	16.3	16.4	
pH	5.35	5.24	5.35	5.42	5.47	
COND	0.556	0.442	0.421	0.412	0.412	
DO	1.51	0.23	0.08	0.13	0.12	
ORP	144	196	186	181	195	
Color	10.7/clr	6.9/clr	6.3/clr	5.0/clr	2.5/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1200

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-52

PROJECT: Grenada Biannual Sampling PERSONNEL: EM+PS

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☒ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 80° °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4-6-10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1700

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 10.15 ft.

Depth to Well Bottom 46.25 ft.

Feet of Water in Well 36.10 ft.

Calculated Volume of Water in Well 5.9 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/7/10 Time: 1030

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1030

Purge End Time 1230

Volume Purged 18 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Hor. U22x

Calibrated: Date 4/7/10

Time	1030	1050	1105	1140	1215	1230
Well Volumes	0	2.5	6.0	12.00	15.00	18.00
Temp	17.0	16.5	16.5	16.6	16.7	16.7
pH	5.10	4.92	5.34	5.40	5.41	5.42
COND	0.258	0.229	0.239	0.246	0.249	0.249
DO	3.66	0.00	0.00	0.00	0.00	0.00
ORP	171	154	108	93	90	90
Color	297/cr	204/clr	229/clr	16/clr	26.4/clr	23.1

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/7/10 Time: 1240

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/7/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-53

PROJECT: Grenada Biannual Sampling PERSONNEL: E McPeek

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☑ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 68 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date:

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time:

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 8.14 ft.

Depth to Well Bottom 27.95 ft.

Feet of Water in Well ft.

Calculated Volume of Water in Well 3.25 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3+

Date: 4/8/10 Time: 1050

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☐ Disposable ☐ Field Cleaned

Purge Start Time 1050

Purge End Time 1230

Volume Purged 10 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U22x

Calibrated: Date 4/8/10

Time	10:50	11:15	1150		1230	
Well Volumes	0	3.25	6.5		10	
Temp	14.9	14.8	14.8	15.8	14.8	
pH	5.88	5.77	5.72	5.63	5.70	
COND	0.445	0.147	0.132	0.[illegible]	0.124	
DO	2.79	1.44	1.38	[illegible]	1.31	
ORP	136	190	202	204	208	
Color	42.3/clr	0.0/clr	13.1/clr	4/clr	1.2/clr	

SAMPLE DATA

Sampling Method:: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1230

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☒ Yes ☐ No

Number of Bottles Filled: 15

Comments MS/MSD (9 VOC's, 3 Tot metals, 3 Hex Chrome)

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

DATE 4/8/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-54

PROJECT: Grenada Biannual Sampling PERSONNEL: E. McPeek

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☑ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 58 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/6/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1200

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 9.13 ft.

Depth to Well Bottom 45.10 ft.

Feet of Water in Well ft.

Calculated Volume of Water in Well 5.90 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/8/10 Time: 1040

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☐ Disposable ☐ Field Cleaned

Purge Start Time 1040

Purge End Time 1330

Volume Purged 19 gal.

Well Evacuated? ☐ Yes ☐ No

Time Series Data

Instruments: Horiba U22X

Calibrated: Date 4/8/10

Time	1040	1130	1200	1215	1330	
Well Volumes	0	6.0	10	12	18	
Temp	15.0	15.9	15.9	15.8	15.9	
pH	5.80	5.60	5.62	5.64	5.62	
COND	0.225	0.212	0.211	0.211	0.209	
DO	0.98	0.00	0.00	0.00	0.00	
ORP	212	262	261	262	264	
Color	28.1/clr	14/clr	34.4/clr	57.7/clr	61.4/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 4/8/10 Time: 1330

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

4/8/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: RT-1

PROJECT: Grenada Biannual Sampling PERSONNEL: Em JPS

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/12/10

Type: ~~☐ Stainless Steel~~ ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 10.69 ft.

Depth to Well Bottom 22.38 ft.

Feet of Water in Well 11.69 ft.

Calculated Volume of Water in Well 1.92 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/12/10 Time: 1009

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ~~☐ Teflon~~ ☐ SS ☐ PVC ☐ PE Other: C

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1009

Purge End Time 1100

Volume Purged 6.0 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22X

Calibrated: Date 4/12/10

Time	1009	1020	1026	1035	1100	
Well Volumes (gal)	0	2.0	3.5	4.0	6.0	
Temp	16.05	17.34	17.51	17.55	17.58	
pH	6.99	5.88	5.83	5.92	5.94	
COND	0.90	0.90	0.90	0.90	0.90	
DO	1.48	0.00	0.00	0.00	0.00	
ORP	96	161	167	166	175	
Color	270 clr	o/crr	o/clr	o/clr	o/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/12/10 Time: 1115

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 7

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/12/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: RT-2

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☐ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: ____ °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/12/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other ____ Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other ____

Depth to Static Water Level 10.62 ft.

Depth to Well Bottom 22.05 ft.

Feet of Water in Well 11.43 ft.

Calculated Volume of Water in Well 1.87 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other ____

Concrete Pad/ Condition: ____ Lock Type ____ Key Number ____

PURGING DATA

Number of Well Volumes Purged ____ Date: 4/12/10 Time: 0915

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other: ____

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other: ____

Cord/Tubing ☐ Teflon ☑ Polyethylene ☐ Nylon Other: ____

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0915

Purge End Time 10[illegible]

Volume Purged 5.5 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horriba U-22X

Calibrated: Date 4/12/10

Time	0915	0931	0955	10.18		
Well Volumes (gal)	0	2.0	4.0	6.0		
Temp	16.1	17.5	17.5	17.7		
pH	5.88	5.98	5.98	5.99		
COND	0.997	0.978	0.978	0.982		
DO	1.64	0.00	0.00	0.00		
ORP	223	208	209	211		
Color	17/clr	76.7/clr	24.3/clr	0.0/clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/12/10 Time: 1205

Other: ____ (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other: ____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other: ____

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: ____

Filter Size: ____ micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color: ____

Immiscible Liquid: ____

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 7

Comments ____

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] SIGNATURE 4/12/10 DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: RT-4

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 60 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/9/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 10.56 ft.

Depth to Well Bottom 22.04 ft.

Feet of Water in Well 11.48 ft.

Calculated Volume of Water in Well 1.88 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☐ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged 3 Date: 4/12/10 Time: 0850

Purge Method: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 4/12 0850 / 4/13 1230

Purge End Time 0859 / 1245

Volume Purged 4.8 gal.

Well Evacuated? ☒ Yes ☐ No

Bailed dry after one volume.

Time Series Data

Instruments:	Horiba					
Calibrated: Date	4/12/10			4/13/10	DTW-11.55	
Time	0850	0852	0859	1230	1245	
Well Volumes	0	1.0 gal	4.9 gal	0	4.9	
Temp	16.88	16.64	17.23	20.00	16.5	
pH	5.79	6.57	7.02	6.99	6.79	
COND	0.90	0.999	0.90	0.99	0.99	
DO	7.8	6.89	5.67	4.91	6.71	
ORP	140	95	53	90	72	
Color	65/clr	44/clr	29.8/clr	7.6/clr	30/clr	

Bailed

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/14/10 Time: 1155

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 7

Comments Well pumped dry on 4/12 & 4/13 after one well volume. Sampled on 4/14/10

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 4/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: RT-5

PROJECT: Grenada Biannual Sampling PERSONNEL:

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 70 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 4/12/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 10.41 ft.

Depth to Well Bottom 19.60 ft.

Feet of Water in Well ft.

Calculated Volume of Water in Well 1.51 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition: Abus (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged 3+ Date: 4/12/10 Time: 0840

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 0840

Purge End Time 0.93

Volume Purged 4.6 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba

Calibrated: Date 4/12/10

Time	0840	0853	0905	0915	0922	0933
Well Volumes (gal)	0	1.6	2.5	3.2	4.0	4.6
Temp	16.2	17.3	17.4	17.4	17.5	17.4
pH	5.98	6.15	6.16	6.15	6.19	6.15
COND	0.566	0.99	65.9	0.90	~~0.16~~	0.90
DO	3.1	0.50	0.16	0.23	0.16	0.18
ORP	169	177	180	184	181	184
Color	27.4/clr	23.6/clr	0.0/clr	0/clr	12 clr	0.1/clr

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 4/12/10 Time: 1215

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 7

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] 4/12/10

SIGNATURE DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Biannual Sampling
JOB NUMBER: 138466

PERSONNEL: AS + EW
TASK: Surface Water Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Other: _____

Temperature: 80 °F

SW-9

Date: 4/13/10 Time: 1445
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba				
Calibrated: Date	4/13/10				
Time	1445				
Well Volumes					
Temp	22.6				
pH	6.53				
COND (µmhos/cm)	.536				
DO	12.20				
ORP	57				
Color	6.5				

Sampling Method:: ☑ Dipper
Other: _____

Materials: Grab Sample ☑ SS ☐ Teflon ☐ PVC ☐ PE Other: _____

Sampling Equipment: ☐ Dedicated ☐ Disposable ☑ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No
Filtering Method: _____
Filter Size: _____ micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color : _____
Immiscible Liquid: _____

Duplicate Collected? ☑ Yes ☐ No
Number of Bottles Filled: 15

Comments MS/MSD Collected

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] SIGNATURE

4/13/10 DATE

SAMPLE DATA

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Biannual Sampling
JOB NUMBER: 138466

PERSONNEL: EMT PS
TASK: Surface Water Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Other: _____

Temperature: 80 °F

SW-12

Date: 4/13/10 Time: 1515
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba				
Calibrated: Date	4/13/10				
Time	1515				
Well Volumes	-				
Temp	22.9				
pH	7.13				
COND (µmhos/cm)	0.536				
DO	11.80				
ORP	11				
Color	11.8				

Sampling Method:: ☒ Dipper
Other: _____

Materials: Grab Sample ☒ SS ☐ Teflon ☐ PVC ☐ PE Other: _____

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method: _____
Filter Size: _____ micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : _____
Immiscible Liquid: _____

Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled: _____

Comments _____

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] SIGNATURE

4/13/10 DATE

SAMPLE DATA

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Biannual Sampling
JOB NUMBER: 138466

PERSONNEL: EMT PS
TASK: Surface Water Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 80 °F
Other:

SW-17

Date: 4/13/10 Time: 1430
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba				
Calibrated: Date	4/13/10				
Time	1430				
~~Well Volumes~~					
Temp	23.4				
pH	6.02				
COND (µmhos/cm)	0.552				
DO	13.47				
ORP	43				
TURB/Color	62/clr				

SAMPLE DATA

Sampling Method:: ☑ Dipper
Other:

Materials: Grab Sample ☑ SS ☐ Teflon ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☑ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No
Number of Bottles Filled: 5

Comments ~~MS/MSD collected~~

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

4/13/10
DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Biannual Sampling
JOB NUMBER: 138466

PERSONNEL: EM+PS
TASK: Surface Water Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Other: _____

Temperature: 80 °F

SW-19

Date: 4/13/10 Time: 1500
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba				
Calibrated: Date	4/13/10				
Time	1500				
~~Well Volumes~~					
Temp	22.4				
pH	6.91				
COND (µmhos/cm)	0.538				
DO	11.40				
ORP	47				
Color	5.3/Clr				

SAMPLE DATA

Sampling Method:: ☒ Dipper
Other: _____

Materials: Grab Sample ☒ SS ☐ Teflon ☐ PVC ☐ PE Other: _____

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method: _____
Filter Size: _____ micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : _____
Immiscible Liquid: _____

Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled: _____

Comments _____

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE: [signature] DATE: 4/13/10

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Biannual Sampling
JOB NUMBER: 138466

PERSONNEL: EM + PS
TASK: Surface Water Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Other: _____

Temperature: 80 °F

SW-22

Date: 4/13/10 Time: 1530
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba				
Calibrated: Date	4/13/10				
Time	1530				
~~Well Volumes~~					
Temp	23.4				
pH	7.20				
COND (µmhos/cm)	0.526				
DO	12.25				
ORP	41				
Color	10.05/clr				

SAMPLE DATA

Sampling Method:: ☒ Dipper
Other: _____

Materials: Grab Sample ☒ SS ☐ Teflon ☐ PVC ☐ PE Other: _____

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method: _____
Filter Size: _____ micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : _____
Immiscible Liquid: _____

Duplicate Collected? ☒ Yes ☐ No
Number of Bottles Filled: 10

Comments Duplicate – DUP (041310) Time 1440

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE: [signature] DATE: 4/13/10

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Monitoring
JOB NUMBER: 138466
PERSONNEL: Brian Jones / Matt Autman
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: >95 °F
Other:

Date: 7/29/10 Time: 14:40
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba U-22				
Calibrated: Date	7/29/10				
Time	1440				
Well Volumes	NA				
Temp	30°C				
pH	6.99				
COND (µmhos/cm)	19.7 ms/cm				
DO	10.35 mg/L				
ORP	106mV				
Turbidity/Color	32.2 NTU				

SAMPLE DATA

Sampling Method:: ☒ Dipper ☐ Bailer ☐ Sub Pump
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned
Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:
Duplicate Collected? ☒ Yes ☐ No
Number of Bottles Filled: 10

Comments SW-22
DUP-072910 was given a time of 13:00 on the COC.

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Brian Jones
SIGNATURE

7/29/10
DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Monitoring
JOB NUMBER: 138466
PERSONNEL: Brian Jones / Matt Aufman
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: >95 °F
Other:

Date: 7/29/10 Time: 11:55
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments: Horriba U-22
Calibrated: Date 7/29/10

Time	11:55				
Well Volumes	NA				
Temp	29°C				
pH	6.05				
COND (µmhos/cm)	20.1 mS/m				
DO	6.38 mg/L				
ORP	109 mV				
Turbidity/Color	Cloudy 39.7 NTU				

SAMPLE DATA

Sampling Method:: ☒ Dipper ☐ Bailer ☐ Sub Pump
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned
Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☐ Clear ☒ Cloudy ☐ Turbid Color :
Immiscible Liquid:
Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled: 5

Comments SW-17

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Brian Jones
SIGNATURE

7/29/10
DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Monitoring
JOB NUMBER: 138466
PERSONNEL: Brian Jones / Matt Autman
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: >95 °F
Other:

Date: 7/29/10 Time: 14:15
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba U-22				
Calibrated: Date	7/29/10				
Time	1415				
Well Volumes	NA				
Temp	29.6°C				
pH	6.95				
COND (µmhos/cm)	19.9 ms/m				
DO	9.86 mg/L				
ORP	90 mV				
Turbidity/Color	34.5 NTU				

SAMPLE DATA

Sampling Method:: ☒ Dipper ☐ Bailer ☐ Sub Pump
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled:

Comments SW-12

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Brian Jones
SIGNATURE

7/29/10
DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Monitoring
JOB NUMBER: 138466
PERSONNEL: Brian Jones / Matt Aufman
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: >95 °F
Other:

Date: 7/29/10 Time: 13:55
(Date and time should correspond with time on sample bottle)

SAMPLE DATA

Time Series Data

Instruments:	Horriba U-22				
Calibrated: Date	7/29/10				
Time	1355				
Well Volumes	NA				
Temp	29.5 °C				
pH	6.91				
COND (µmhos/cm)	19.7 mS/m				
DO	9.05 mg/L				
ORP	110 mV				
Turbidity/Color	35.5 NTU				

Sampling Method:: ☒ Dipper ☐ Bailer ☐ Sub Pump
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled: 5

Comments SW-19
FB-04 was also collected at 13:40

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Brian Jones
SIGNATURE

7/29/10
DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Monitoring
JOB NUMBER: 138466
PERSONNEL: Brian Jones / Matt Aufman
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: >95 °F
Other:

Date: 7/29/10 Time: 12:40
(Date and time should correspond with time on sample bottle)

Time Series Data

Instruments:	Horriba U-22				
Calibrated: Date	7/29/10				
Time	1240				
Well Volumes	NA				
Temp	29.7°C				
pH	6.47				
COND (µmhos/cm)	20.2 ms/m				
DO	7.06 mg/L				
ORP	46 mV				
Turbidity/Color	36.3 NTU				

SAMPLE DATA

Sampling Method:: ☒ Dipper ☐ Bailer ☐ Sub Pump
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled: 15

Comments SW-9, SW-9MS, SW-9MSD

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Brian Jones
SIGNATURE

7/29/10
DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-14

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 85° °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/12/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other _____ Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other _____

Depth to Static Water Level 14.12 ft.

Depth to Well Bottom 27.17 ft.

Feet of Water in Well 13.05 ~~14.42~~ ft.

Calculated Volume of Water in Well 2.09 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other _____

Concrete Pad/ Condition: _____ Brinkes (Lock Type) _____ (Key Number)

PURGING DATA

Number of Well Volumes Purged ~3 Date: 10/15/10 Time: 1145

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other: _____

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☒ PE Other: _____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1145

Purge End Time 1500

Volume Purged 6.3 gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horriba - U22XD

Calibrated: Date 10/15/10

Time	1145	1210	1435	1500		
Volume	0	2.1	4.2	6.3		
Temp	20.01	19.36	19.31	19.30		
pH	7.62	6.20	6.16	6.17		
COND	0.459	0.448	0.450	0.449		
DO	0.50	0.49	0.61	0.66		
ORP	-120	-62	-71	-74		
Turbi/Color	27.4/clr	9.9/clr	13.3/clr	8.5/clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 10/15/10 Time: 1510

Other: _____ (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other: _____

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: _____

Filter Size: _____ micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : _____

Immiscible Liquid: _____

Duplicate Collected? ☒ Yes ☐ No

Number of Bottles Filled: _____

Comments ~~DUP-10/15/10~~ DUP-10510 collected, labeled dup. @ 1215

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE _____ DATE 10/15/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-41

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 25 °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 10/12/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 15.11 ft.

Depth to Well Bottom 27.20 ft.

Feet of Water in Well ~~1.95~~ 12.09 ft.

Calculated Volume of Water in Well 1.93 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged ~3 Date: 10/14/10 Time: 0930

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0930

Purge End Time 1030

Volume Purged 6.0 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horiba U22-XD

Calibrated: Date 10/14/10

Time	0930	0950	1010	1025	1030	
Volume	0	2	4	5.8	6.0	
Temp	19.7	19.4	19.5	19.6	19.6	
pH	6.65	9.70	9.82	9.91	9.91	
COND	0.591	0.509	0.492	0.477	0.476	
DO	0.66	0.00	0.00	0.00	0.00	
ORP	-195	-253	-254	-258	-259	
Turbi/Color	52.9/clr	125/clr	201/clr	-/clr	-/clr	

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1525

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☑ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 10/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-42

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 75° °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 10/14/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 15.45 ft.

Depth to Well Bottom 50.45 ft.

Feet of Water in Well ~~56~~ 35 ft.

Calculated Volume of Water in Well 5.6 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition: Master (Lock Type) (Key Number)

PURGING DATA

Number of Well Volumes Purged Date: 10/14/10 Time: 0915

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 0925

Purge End Time

Volume Purged gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba - U22XD

Calibrated: Date 10/14/10

Time	0925	1010	1055	1145		
Volume	0	5.6	11.2	16.8		
Temp	18.96	18.58	18.61	18.64		
pH	6.34	6.28	6.24	6.25		
COND	0.710	0.706	0.650	0.649		
DO	3.34	1.0	1.07	1.08		
ORP	-139	-151	-173	-181		
Turbi/Color	32.1/clr	89/clr	387/clr	283/clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1530

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 10/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-43

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 85 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/15/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 1250

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 14.78 ft.

Depth to Well Bottom 24.35 ft.

Feet of Water in Well 9.57 ft.

Calculated Volume of Water in Well 1.53 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type: FM Key Number:

PURGING DATA

Number of Well Volumes Purged Date: 10/15/10 Time: 1253

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1253

Purge End Time 1328

Volume Purged 3.5 L ~~gal.~~

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba - U22XD

Calibrated: Date 10/15/10

Time	1303	1308	1313	1318	1323	1328
Volume	14.78/1L	14.78/1.5L	"/2L	"/2.5L	"/3L	"/3.5L
Temp	22.22	22.40	22.36	22.43	22.61	22.56
pH	9.59	9.97	10.00	10.02	10.04	10.06
COND	0.861	0.856	0.864	0.867	0.871	0.868
DO	1.34	0.62	0.64	0.64	0.65	0.67
ORP	-53	-88	-102	-109	-118	-119
Turbi/Color	0.9/clr	10.4/clr	12.1/clr	18.5/clr	24.9/clr	26.4/clr

SAMPLE DATA

Sampling Method:: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Date: 10/15/10 Time: 1330

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☐ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments Purged @ 100 mL/min, Sampled @ <100 mL/min (metals → VOCs)

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

10/15/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-44

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 75 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/15/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1250

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 14.18 ft.

Depth to Well Bottom 46.10 ft.

Feet of Water in Well 31.92 ft.

Calculated Volume of Water in Well 5.11 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 10/15/10 Time: 1250

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1300

Purge End Time 1330

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 10/15/10

Time	1300	1305	1310	1320	1330		
DTW/Volume	14.20	14.21	14.21	14.21	14.21		
Temp	21.39	21.28	21.26	21.31	21.29		
pH	10.31	10.21	10.14	10.13	10.09		
COND	0.523	0.560	0.566	0.561	0.568		
DO	3.01	1.78	1.65	1.53	1.55		
ORP	-184	-184	-175	-169	-161		
Turbi/Color	80.7	61.0	63	58	75		

flow rate - 100ml/min

SAMPLE DATA

Sampling Method:: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Date: 10/15/10 Time: 1335

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: N/A

Filter Size: N/A micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 0

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 10/15/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-45

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 75 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/12/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 11.70 ft.

Depth to Well Bottom 27.48 ft.

Feet of Water in Well 15.78 ft.

Calculated Volume of Water in Well 2.53 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 10/14/10 Time: 0920

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 0920

Purge End Time 1105

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 10/14/10

Time	0920	0955	1030	1105		
Volume	0	2.6	5.2	7.8		
Temp	17.4	18.0	18.1	18.1		
pH	5.61	5.75	5.79	5.83		
COND	0.93	0.91	0.93	0.91		
DO	8.54	6.81	6.30	5.80		
ORP	73	154	172	174		
Turbi/Color	122	191.0	200	166.0		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1515

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 10/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-46

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 75 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/12/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 900

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 11.50 ft.

Depth to Well Bottom 48.85 ft.

Feet of Water in Well 37.35 ft.

Calculated Volume of Water in Well 5.98 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 10/14/10 Time: 0930

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 0930

Purge End Time 1215

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 10/14/10

Time	930	1030	1125	1215		
Volume	0	6	12	18		
Temp	17.74	17.74	17.81	17.95		
pH	5.98	5.99	5.97	5.97		
COND	0.755	0.748	0.745	0.743		
DO	0.36	0.42	0.14	0.08		
ORP	38	2	-0	0		
Turbi/Color	12.2	20.1	41.3	34.1		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1510

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Peter Schlater SIGNATURE

10/14/10 DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-47

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 10/12/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other _____ Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other _____

Depth to Static Water Level 14.72 ft.

Depth to Well Bottom 27.68 ft.

Feet of Water in Well 12.96 ft.

Calculated Volume of Water in Well 2.07 gal. (0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter)

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☑ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other _____

Concrete Pad/ Condition: _____ Master (Lock Type) _____ (Key Number)

PURGING DATA

Number of Well Volumes Purged ~3 Date: 10/14/10 Time: 1200

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other: _____

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other: _____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1205

Purge End Time 1250

Volume Purged 6.3 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horriba U22XD

Calibrated: Date 10/14/10

Time	1205	1220	1235	1250		
Volume	0	2.1	4.2	6.3		
Temp	19.17	18.43	18.40	18.43		
pH	~~6.65~~ 6.74	6.08	6.19	6.36		
COND	0.188	0.167	0.168	0.169		
DO	7.60	5.61	4.79	4.73		
ORP	-143	-145	-147	-151		
Turbi/Color	10/clr	28.6/clr	30.1/clr	40.3/clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1425

Other: _____ (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other: _____

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method: _____

Filter Size: _____ micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color : _____

Immiscible Liquid: _____

Duplicate Collected? ☑ Yes ☐ No

Number of Bottles Filled: 15

Comments MS/MSD COLLECTED

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE _____ DATE 10/14/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: Mw-4B

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 80 °F

Other:

WELL DATA

Casing: Diameter (inches) 2" Date: 10/12/10

Type: ☐ Stainless Steel ☑ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level 14.29 ft.

Depth to Well Bottom 52.60 ft.

Feet of Water in Well 38.31 ft.

Calculated Volume of Water in Well 6.13 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☑ Yes ☐ No

Is well visible? ☑ Yes ☐ No

Is well accessible? ☑ Yes ☐ No

Is drainage acceptable? ☑ Yes ☐ No

Is well labeled? ☑ Yes ☐ No

Is well locked? ☐ Yes ☐ No

Measurement Datum: ☑ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Master — Lock Type

Key Number

PURGING DATA

Number of Well Volumes Purged 3

Date: 10/14/10 Time: 1100

Purge Method: ☑ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☑ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Purge Start Time 1100

Purge End Time 1410

Volume Purged 18.6 gal.

Well Evacuated? ☐ Yes ☑ No

Time Series Data

Instruments: Horiba U22XD

Calibrated: Date 10/14/10

Time	1100	1200	1305	1410		
Volume	0	6.2	12.4	18.6		
Temp	~~[illegible]~~ 18.7	18.1	18.1	18.1		
pH	7.48	6.65	6.66	6.66		
mS/cm COND	0.487	0.601	0.608	0.594		
DO	0.91	0.00	0.00	0.00		
ORP	-179	-158	-155	-154		
Turbi/Color	29.1/clr	100/clr	0/clr	121/clr		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☑ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1420

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☑ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☑ Nylon Other:

Sampling Equipment: ☐ Dedicated ☑ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

10/14/10

DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-49

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: _____ °F

Other: _____

WELL DATA

Casing: Diameter (inches) 2 Date: 10/15/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other _____ Time: 0900

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other _____

Depth to Static Water Level 13.71 ft.

Depth to Well Bottom 48.00 ft.

Feet of Water in Well 34.29 ft.

Calculated Volume of Water in Well 5.49 gal. (0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter)

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other _____

Concrete Pad/ Condition: _____ Lock Type _____ Key Number _____

PURGING DATA

Number of Well Volumes Purged _____ Date: 10/15/10 Time: 1145

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other: _____

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other: _____

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1150

Purge End Time 1225

Volume Purged _____ gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 10/15/10

Time		0 1150	1155	1200	1210	1215	1220	1225
DTW / Volume	13.85	13.85	13.82	13.82	13.82	13.72	13.83	13.73
Temp		23.10	22.61	22.57	22.31	22.36	22.38	22.23
pH		6.90	7.35	8.18	9.00	9.21	9.22	9.23
Flowrate 100mL/min COND		0.519	0.457	0.452	0.424	0.423	.420	.422
DO		4.37	5.08	2.55	2.41	2.33	2.30	2.25
ORP		-244	-270	-264	-265	-267	-266	-269
Turbi/Color		20.1	20.8	26.0	28.7	29.9	30.1	37.1

SAMPLE DATA

Sampling Method:: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Date: 10/15/10 Time: 1230

Other: _____ (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☐ PE Other: _____

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: _____

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method: _____

Filter Size: _____ micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color : _____

Immiscible Liquid: _____

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 6

Comments _____

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE _____ DATE 10/15/10

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-50

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK:

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy Temperature: 85 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/15/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 1145

Intake Screen: ☐ Stainless Steel ☐ PVC ☐ Other

Depth to Static Water Level ~~14.82~~ 13.85 ft.

Depth to Well Bottom 24.03 ft.

Feet of Water in Well 10.81 ft.

Calculated Volume of Water in Well 1.63 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Screen Interval ft.

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

FM

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 10/15/10 Time: 1145

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☒ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1147

Purge End Time 1217

Volume Purged 3.0L gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U22XD

Calibrated: Date 10/15/10

Time	1147	1152	1202 ~~1155~~	1207	1212	1217
DTW(ft) / Vol. (L)	13.85/0	13.85/1L	13.85/1.5L	13.85/2L	13.85/2.5L	13.85/3.0L
Temp	22.9	22.8	23.0	23.0	23.0	22.9
pH	6.93	7.24	7.31	7.37	7.41	7.43
COND	✓	✓	✓	✓	✓	✓
DO	0.0	0.0	0.0	0.0	0.0	0.0
ORP	-204	-279	-278	-270	-269	-268
Turb/Color	115/clr	67.2/clr	73.0/clr	70.3/clr	69.9/clr	66.1

SAMPLE DATA

Sampling Method:: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Date: 10/15/10 Time: 1220

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☐ Teflon ☐ SS ☐ PVC ☒ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☐ Nylon Other: Silicon

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments Purge @ 100 mL/min., Sample @ <100 mL/min (metals → VOCs)

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE 10/15/10 DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-51

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 75 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/12/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 12.77 ft.

Depth to Well Bottom 27.60 ft.

Feet of Water in Well 14.83 ft.

Calculated Volume of Water in Well 2.37 gal. 0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing

Other

Concrete Pad/ Condition:

Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 10/14/10 Time: 1230

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1235

Purge End Time 1355

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 10/14/10

Time	1235	1255	1315	1355		
Volume	0	2.5	5	7.5		
Temp	18.87	17.97	18.04	18.12		
pH	5.96	5.21	5.27	5.30	5.40	
COND	0.149	0.179	0.192	0.198		
DO	1.05	1.36	1.34	0.34		
ORP	109	214	230	247		
Turbi/Color	14.9	7.1	3.2	2.1		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1410

Other:

(Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

Pete Schlater SIGNATURE 10/14/10 DATE

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA

WELL NUMBER: MW-52

PROJECT: Grenada Environmental Services PERSONNEL: Erik McPeek & Peter Schlater

JOB NUMBER: 138466 TASK: Groundwater Sampling

Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☒ Windy Temperature: 75 °F

Other:

WELL DATA

Casing: Diameter (inches) 2 Date: 10/12/10

Type: ☐ Stainless Steel ☒ PVC ☐ Other Time: 0900

Intake Screen: ☐ Stainless Steel ☒ PVC ☐ Other

Depth to Static Water Level 12.75 ft.

Depth to Well Bottom 46.25 ft.

Feet of Water in Well 33.50 ft.

Calculated Volume of Water in Well 5.36 gal. (0.65 gal/ft 4" diameter, 0.16 gal/ft 2" diameter)

Is well in good condition? ☒ Yes ☐ No

Is well visible? ☒ Yes ☐ No

Is well accessible? ☒ Yes ☐ No

Is drainage acceptable? ☒ Yes ☐ No

Is well labeled? ☒ Yes ☐ No

Is well locked? ☒ Yes ☐ No

Measurement Datum: ☒ Top of Inner Casing ☐ Procasing Other

Concrete Pad/ Condition: Lock Type Key Number

PURGING DATA

Number of Well Volumes Purged Date: 10/14/10 Time: 1130

Purge Method: ☒ Peristaltic ☐ Bailer ☐ Sub Pump Other:

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☒ Polyethylene ☐ Nylon Other:

Purging Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Purge Start Time 1130

Purge End Time 1530

Volume Purged gal.

Well Evacuated? ☐ Yes ☒ No

Time Series Data

Instruments: Horiba U-22

Calibrated: Date 10/14/10

Time	1130	1245	1355	1530		
Volume	0	5.5	11	16.5		
Temp	17.7	17.4	17.4	17.3		
pH	5.88	5.54	5.55	5.47		
COND	.91	.93	.91	0.93		
DO	0.00	0.00	10.6	0.00		
ORP	50.0	56	64	66		
Turbi/Color	31.1	45	23.1	59		

SAMPLE DATA

Sampling Method:: ☐ Peristaltic ☒ Bailer ☐ Sub Pump Date: 10/14/10 Time: 1535

Other: (Date and time should correspond with time on sample bottle)

Materials: Bailer/Pump ☒ Teflon ☐ SS ☐ PVC ☐ PE Other:

Cord/Tubing ☐ Teflon ☐ Polyethylene ☒ Nylon Other:

Sampling Equipment: ☐ Dedicated ☒ Disposable ☐ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No

Filtering Method:

Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :

Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No

Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE DATE 10/14/10

SW-9

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 80 °F
Other:

Date: 10/18/10 Time: 1420
(Date and time should correspond with time on sample bottle)

Field Parameter Data

Instruments: Horiba - U22XD

Calibrated: Date	10/18/10				
Time	1415	1425			
Well Volumes	NA	NA			
Temp	21.64	21.63			
pH	6.86	7.18			
COND (µmhos/cm)	0.449	0.441			
DO	3.59	2.81			
ORP	-7	-32			
Turbidity/Color	3.8/clr	4.0/clr			

SAMPLE DATA

Sampling Method:: ☒ Dipper ☐ Bailer
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned

Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:

Duplicate Collected? ☐ Yes ☒ No
Number of Bottles Filled:

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

10/18/10
DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

SW-12

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK: Surface Water Sampling
Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 80 °F
Other:

Date: 10/18/10 Time: 1500
(Date and time should correspond with time on sample bottle)

Field Parameter Data

Instruments: Horriba U22XD
Calibrated: Date 10/18/10

Time	1450	1505			
Well Volumes	NA	NA			
Temp	19.42	19.43			
pH	7.30	7.11			
COND (µmhos/cm)	0.454	0.451			
DO	2.40	1.46			
ORP	-52	-44			
Turbidity/Color	16.9/cir	6.2/clr			

SAMPLE DATA

Sampling Method:: ☑ Dipper ☐ Bailer
Other:

Materials: Grab Sampler ☐ Teflon ☑ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☑ Field Cleaned
Metals Field Filtered? ☐ Yes ☑ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☐ Clear ☐ Cloudy ☐ Turbid Color : Org/Brn
Immiscible Liquid:
Duplicate Collected? ☑ Yes ☐ No
Number of Bottles Filled: 10

Comments ~~[illegible]~~ Dup-101810 Labeled 1330, sampled @ same time as SW-12

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

[signature] 10/18/10
SIGNATURE DATE

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

SW-17

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK: Surface Water Sampling
Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 81 °F
Other:

Date: 10/18/10 Time: 1340
(Date and time should correspond with time on sample bottle)

Field Parameter Data

Instruments:	Horriba - U22XD				
Calibrated: Date	10/18/10				
Time	1340	1354			
Well Volumes	NA	NA			
Temp	20.25	20.37			
pH	6.23	6.56			
COND (µmhos/cm)	0.446	0.440			
DO	6.07	3.19			
ORP	14	-37			
Turbidity/Color	50.2/clr	21/clr			

SAMPLE DATA

Sampling Method:: ☑ Dipper ☐ Bailer
Other:

Materials: Grab Sampler ☐ Teflon ☑ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☑ Field Cleaned

Metals Field Filtered? ☐ Yes ☑ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:

Duplicate Collected? ☐ Yes ☑ No
Number of Bottles Filled: 5

Comments FB-01 Collected @ ~~1535~~ 1535 N of bridge. (5 bottles)

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

10/18/10
DATE

SW-19

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK: Surface Water Sampling
Weather Conditions: ☑ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 80 °F
Other:

Date: 10/18/10 Time: 1440
(Date and time should correspond with time on sample bottle)

Field Parameter Data

Instruments: Horiba U22XD
Calibrated: Date 10/18/10

Time	1434	1445			
Well Volumes	NA	NA			
Temp	21.18	21.11			
pH	7.28	7.25			
COND (µmhos/cm)	0.451	0.451			
DO	2.95	2.44			
ORP	-52	-54			
Turbidity/Color	59.7/clr	12.1/clr			

SAMPLE DATA

Sampling Method:: ☑ Dipper ☐ Bailer
Other:

Materials: Grab Sampler ☐ Teflon ☑ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☑ Field Cleaned
Metals Field Filtered? ☐ Yes ☑ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☑ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:
Duplicate Collected? ☐ Yes ☑ No
Number of Bottles Filled: 5

Comments

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

10/18/10
DATE

SW-22

Brown AND Caldwell

SURFACE WATER SAMPLING FIELD DATA

PROJECT: Grenada Environmental Services
PERSONNEL: Erik McPeek & Peter Schlater
JOB NUMBER: 138466
TASK: Surface Water Sampling
Weather Conditions: ☒ Sun ☐ Partly Cloudy ☐ Cloudy ☐ Rain ☐ Snow ☐ Windy
Temperature: 80 °F
Other:

Date: 10/18/10 Time: 1520
(Date and time should correspond with time on sample bottle)

Field Parameter Data

Instruments: Horiba U22XD
Calibrated: Date 10/18/10

Time	1515	1530			
Well Volumes	NA	NA			
Temp	18.15	18.18			
pH	7.22	7.18			
COND (µmhos/cm)	.448	.447			
DO	1.50	1.17			
ORP	-5	20			
Turbidity/Color	6.3	8			

SAMPLE DATA

Sampling Method:: ☒ Dipper ☐ Bailer
Other:

Materials: Grab Sampler ☐ Teflon ☒ SS ☐ PVC ☐ PE Other:

Sampling Equipment: ☐ Dedicated ☐ Disposable ☒ Field Cleaned
Metals Field Filtered? ☐ Yes ☒ No
Filtering Method:
Filter Size: micron

Sampling Appearance: ☒ Clear ☐ Cloudy ☐ Turbid Color :
Immiscible Liquid:
Duplicate Collected? ☒ Yes ☐ No
Number of Bottles Filled: 15

Comments MS/MSD collected

THIS SAMPLE WAS COLLECTED AND HANDLED IN ACCORDANCE WITH APPLICABLE REGULATORY AND CORPORATE PROTOCOLS

SIGNATURE

10/18/10
DATE

Appendix B

Chain-of-Custody Forms and Laboratory Analytical Reports on CD

- Spring 2010 Chain of Custody Forms
- Spring 2010 Laboratory Reports
- July 2010 Chain of Custody Forms
- July 2010 Laboratory Reports
- Fall 2010 Chain of Custody Forms
- Fall 2010 Laboratory Reports

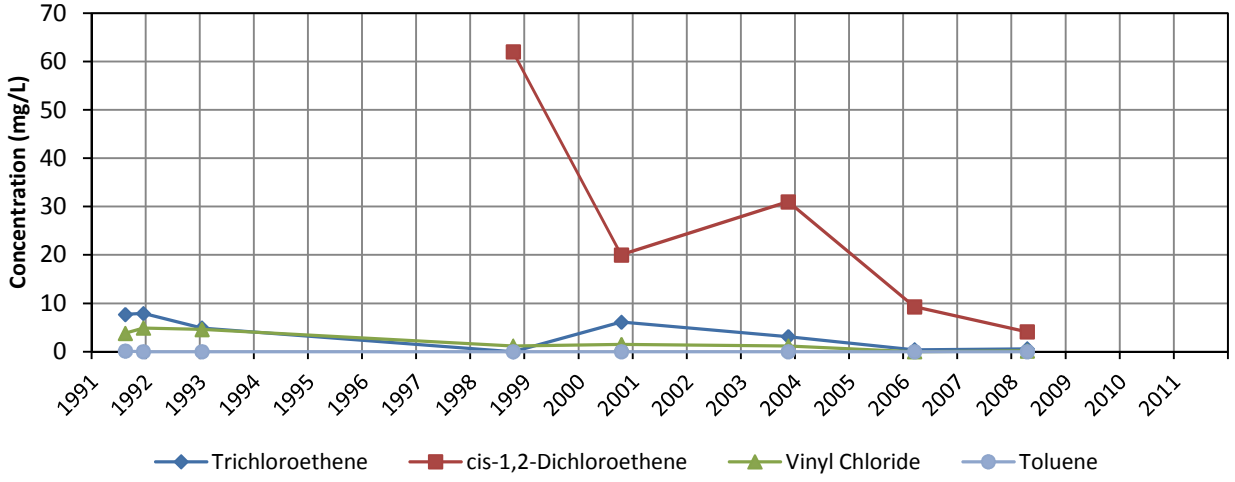
Appendix C

Concentration Time Series Plots

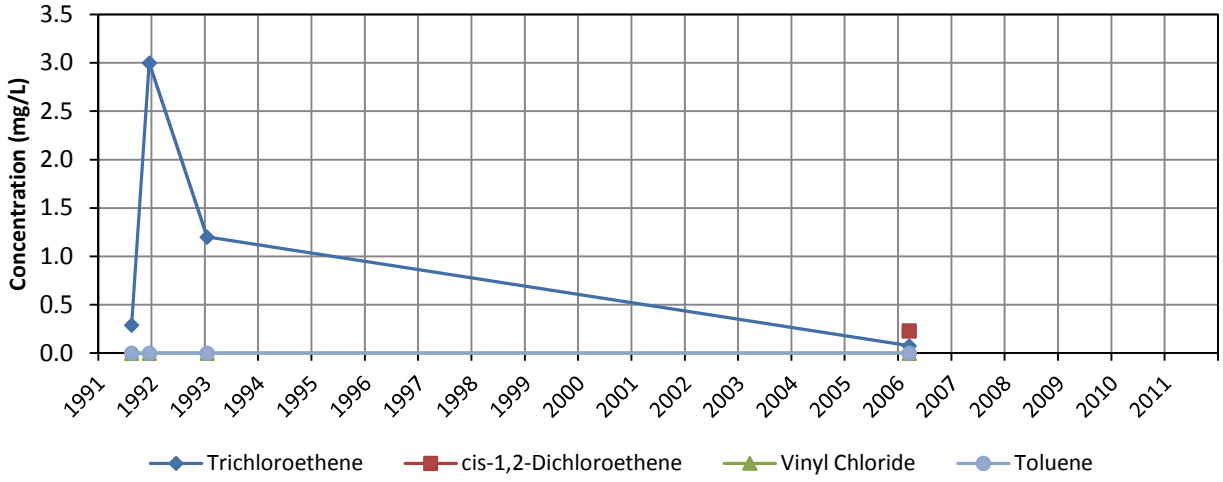
- Groundwater VOC Plots
- Groundwater Metal Plots
- Surface Water VOC Plots
- Surface Water Metal Plots

Groundwater VOC Plots

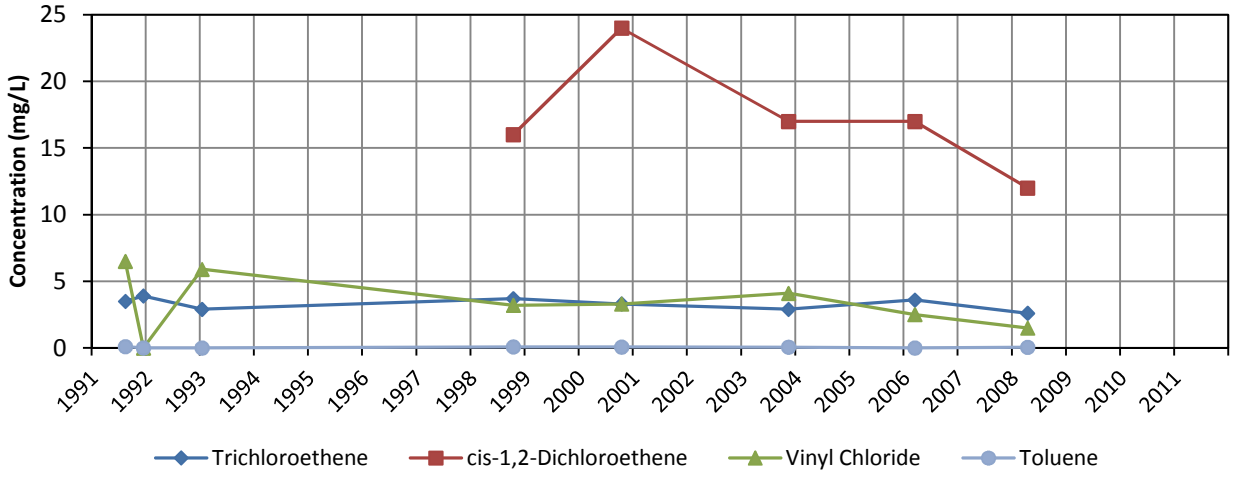
MW-1 VOCs



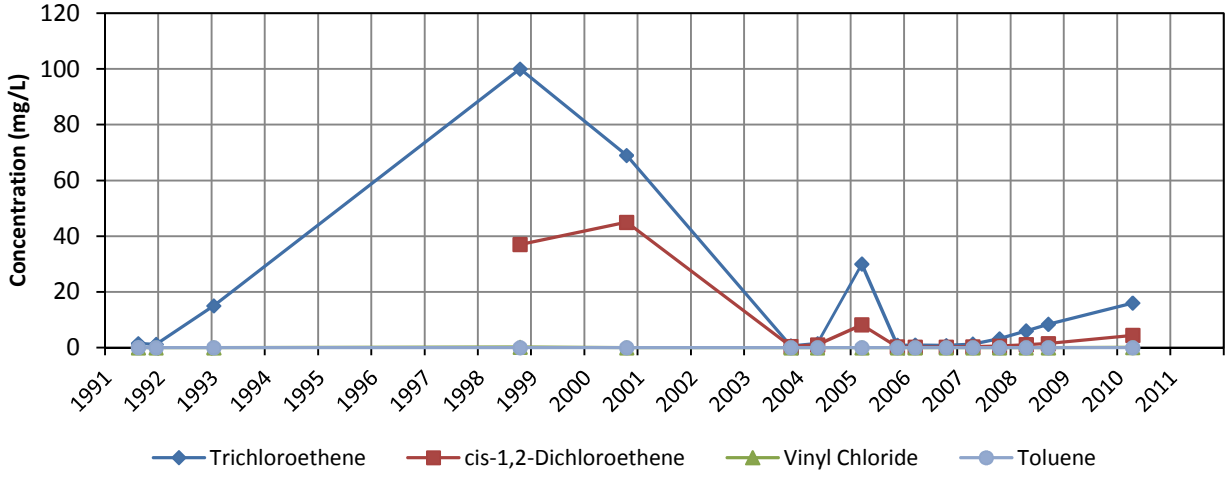
MW-3 VOCs



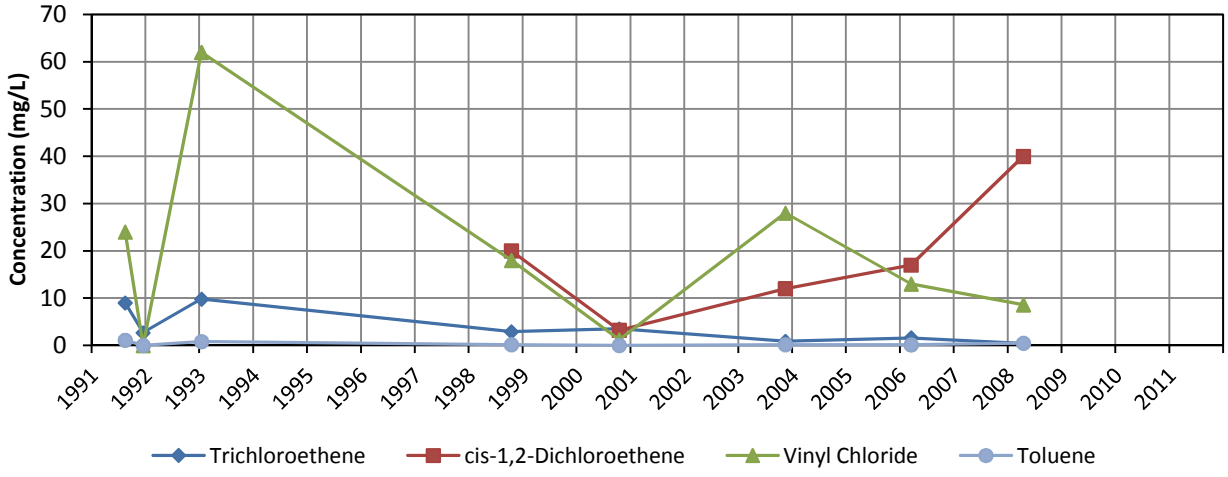
MW-4 VOCs



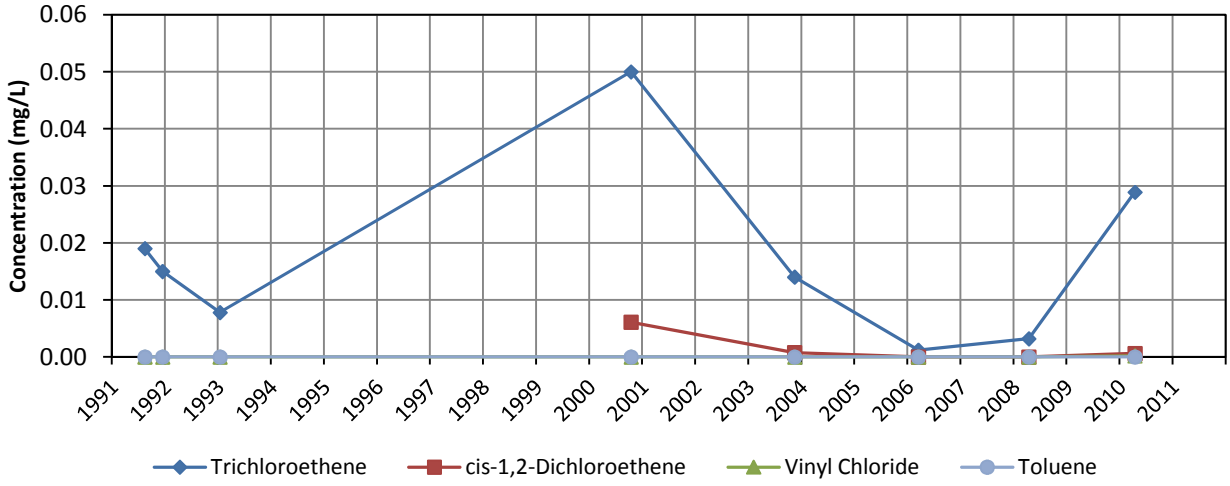
MW-5 VOCs



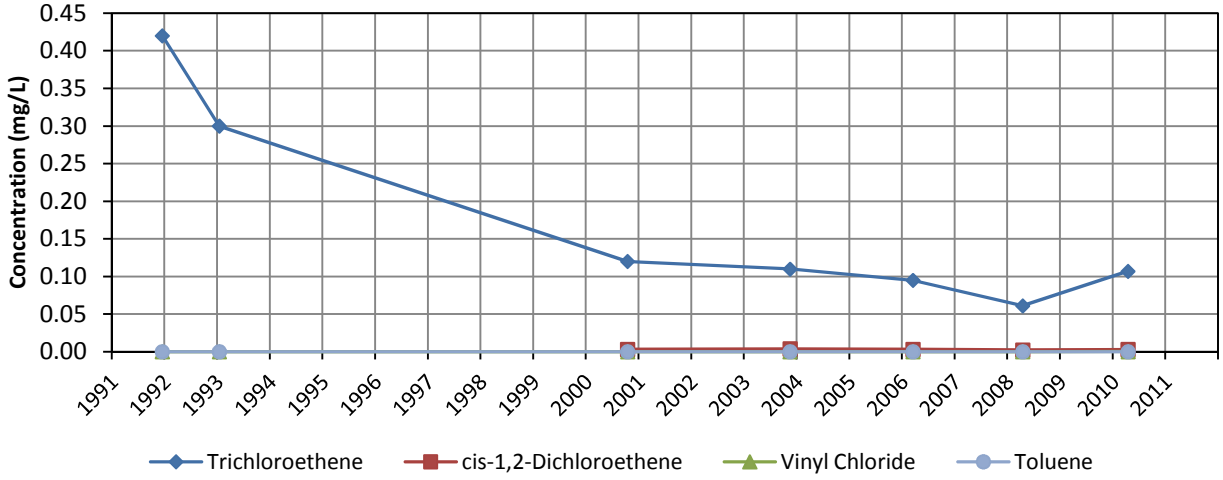
MW-6 VOCs



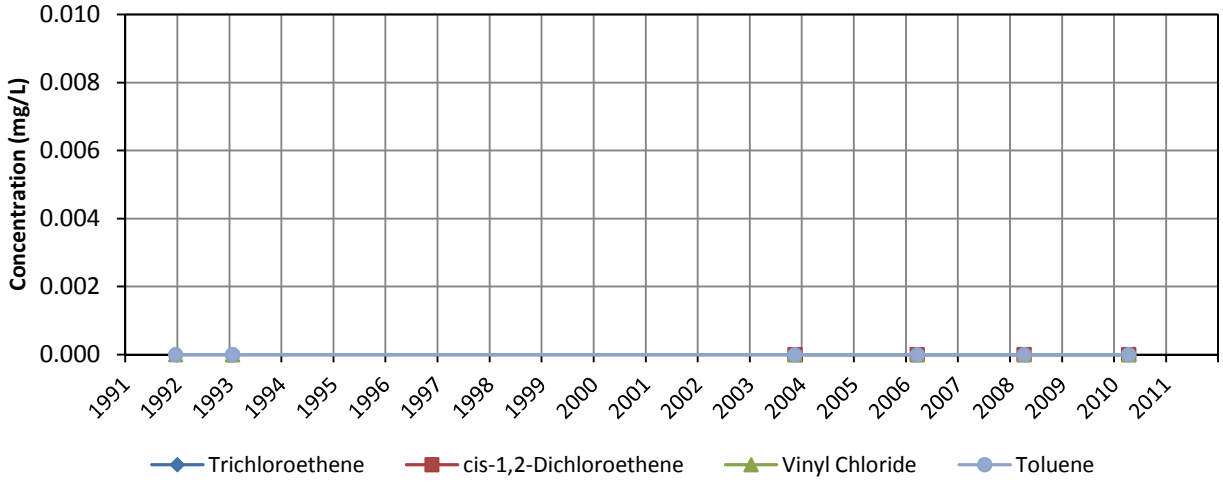
MW-7 VOCs



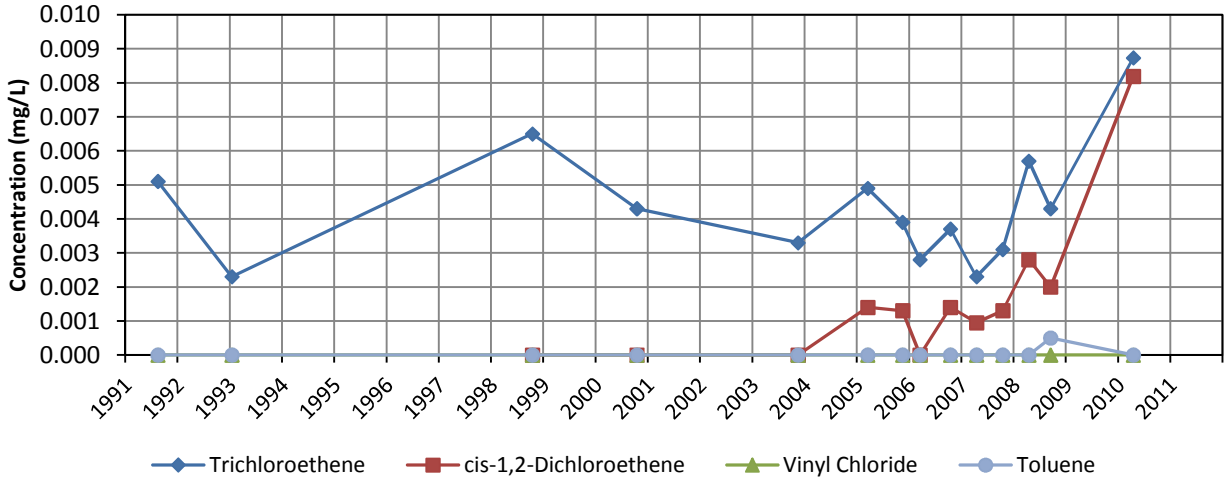
MW-8 VOCs



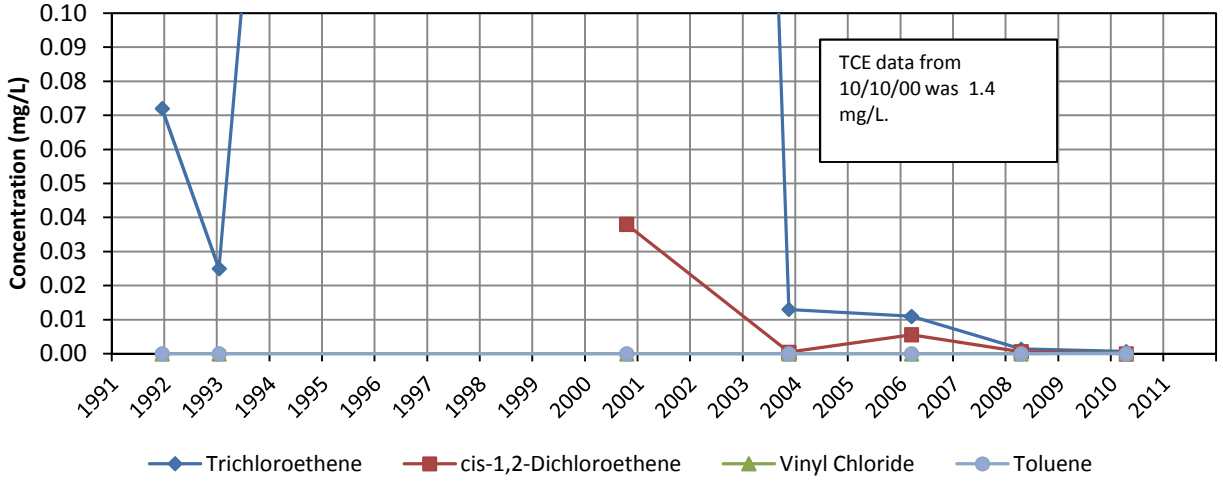
MW-9 VOCs



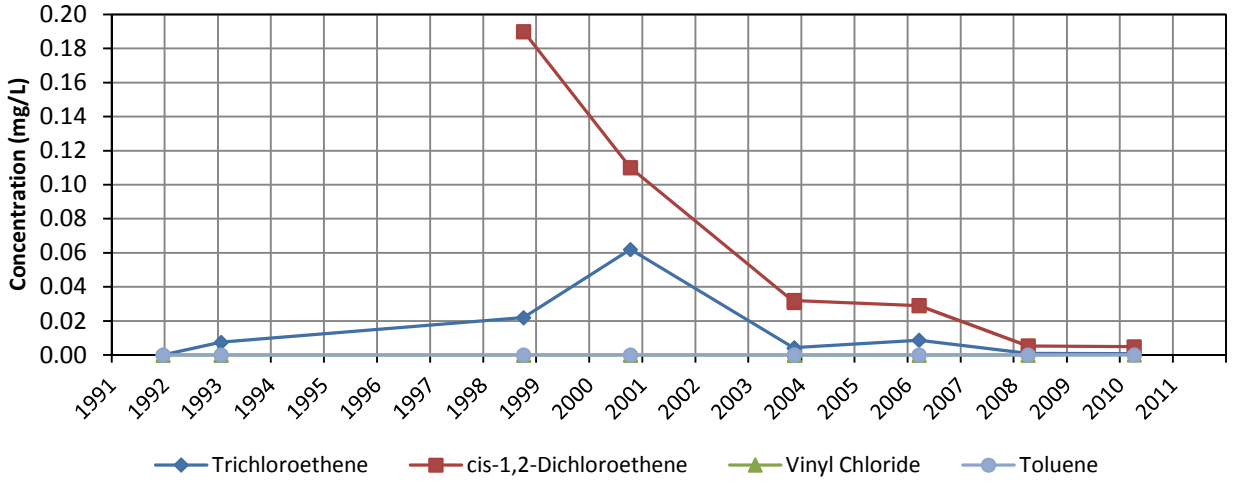
MW-10 VOCs



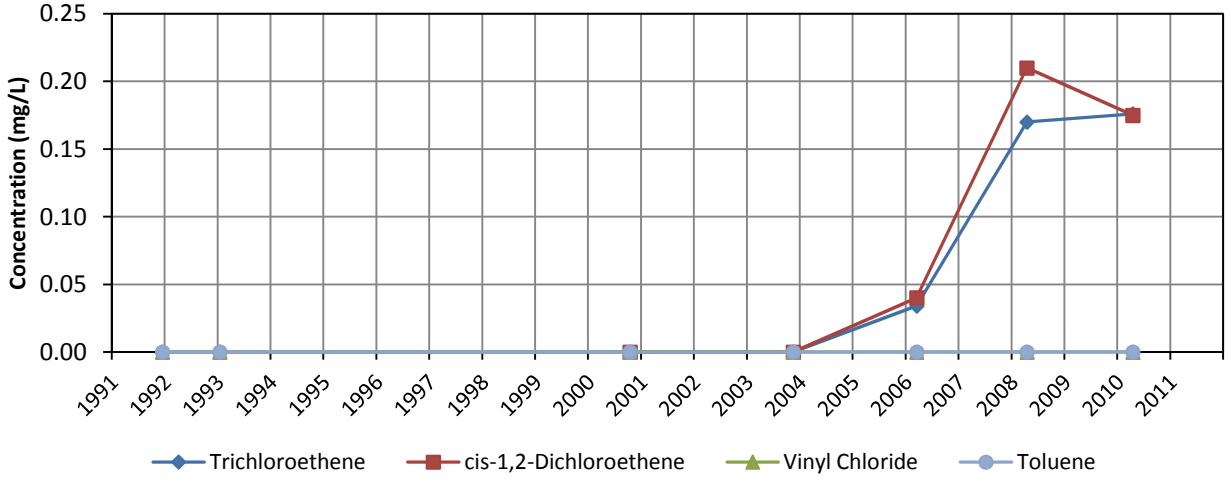
MW-11 VOCs



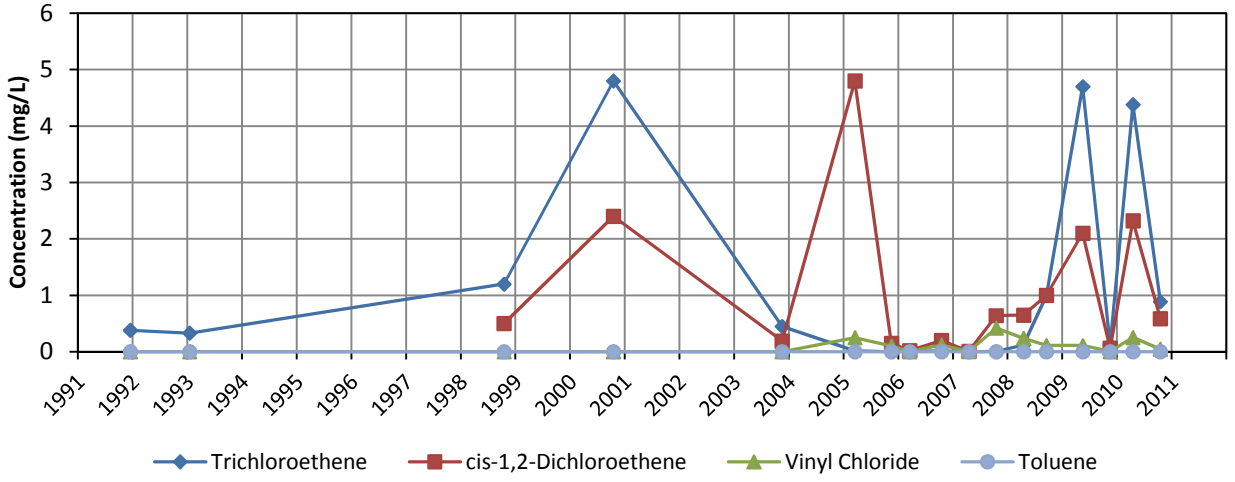
MW-12 VOCs



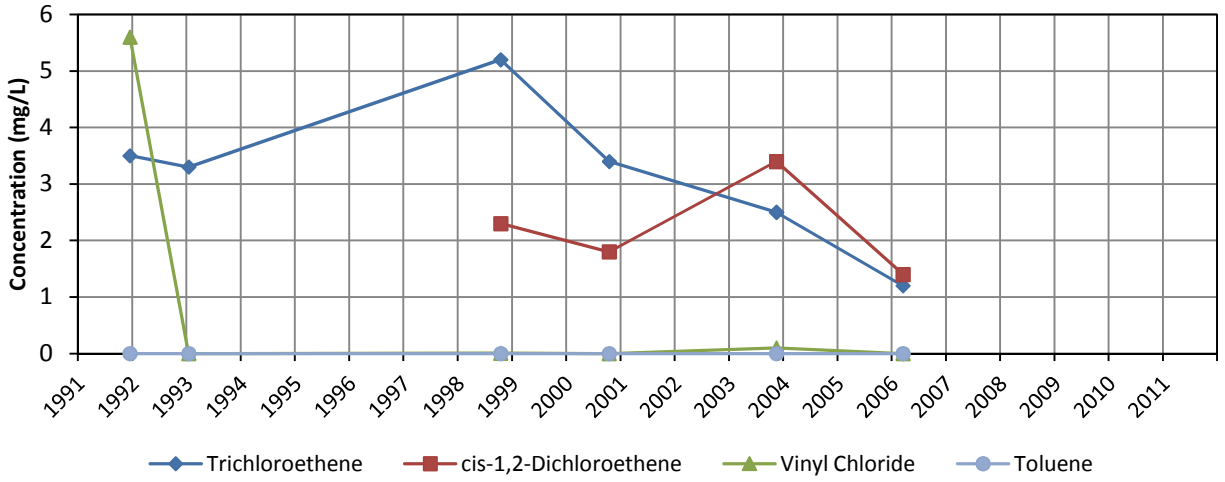
MW-13 VOCs



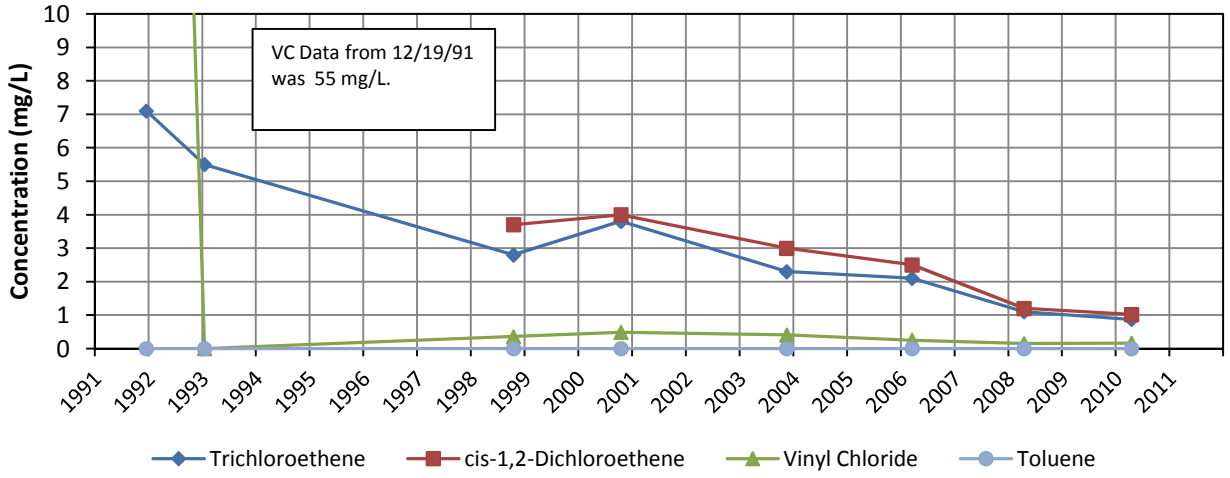
MW-14 VOCs



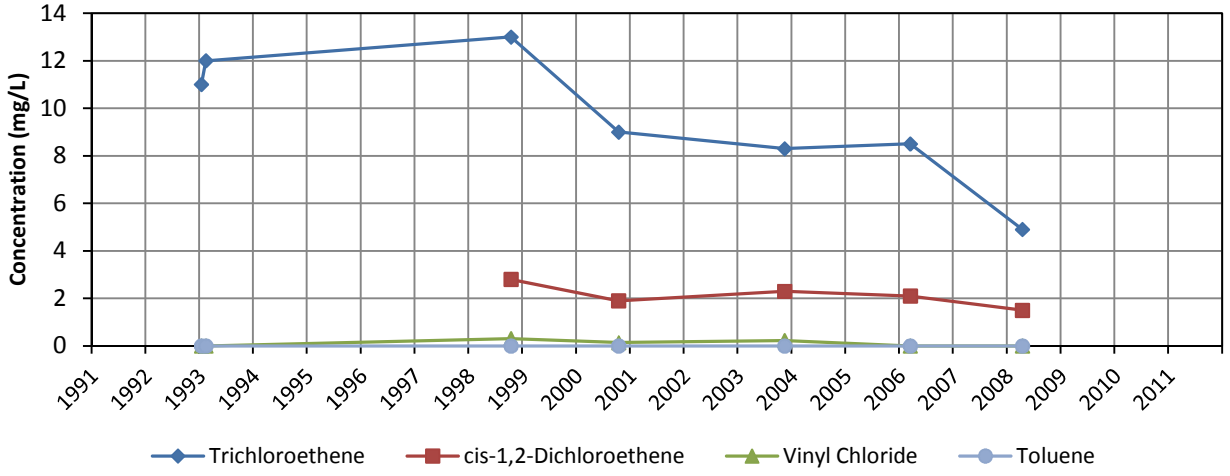
MW-15 VOCs



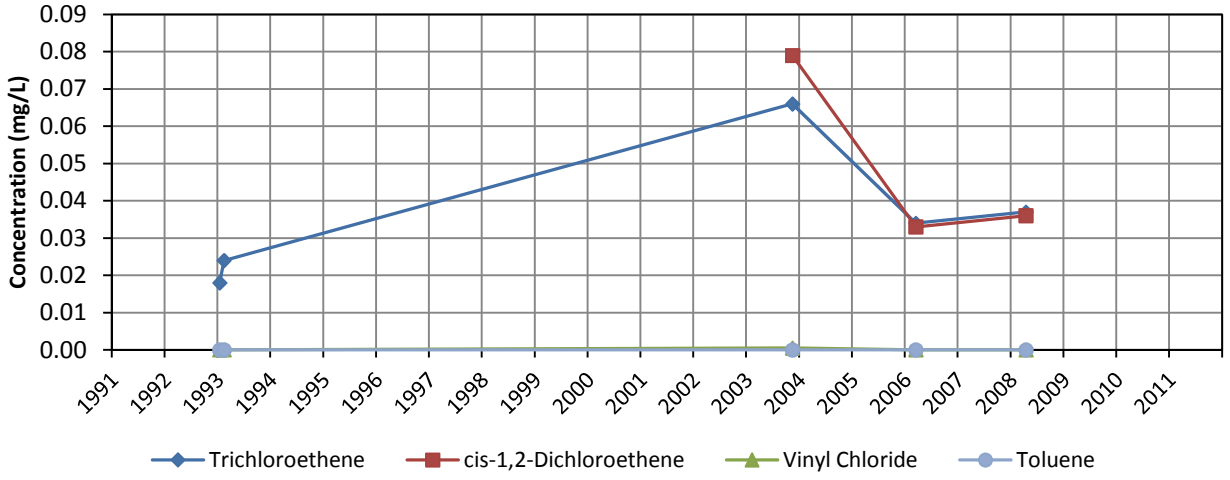
MW-16 VOCs



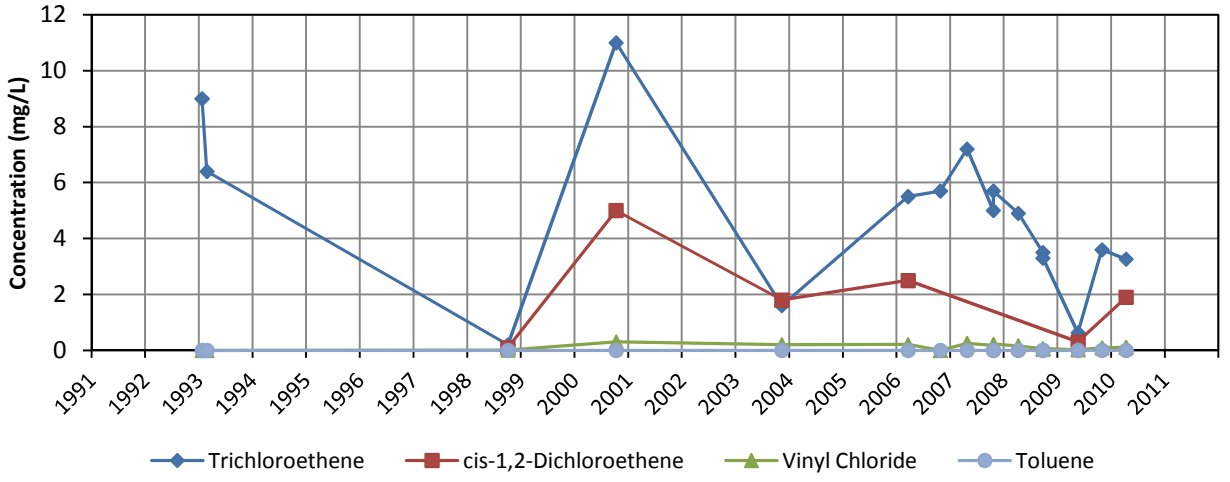
MW-17 VOCs



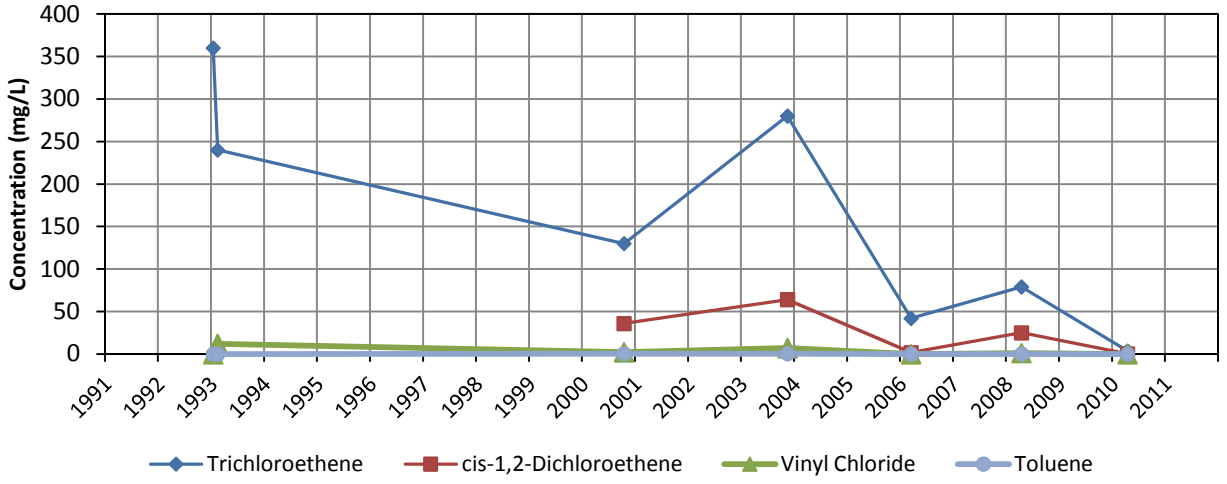
MW-20 VOCs



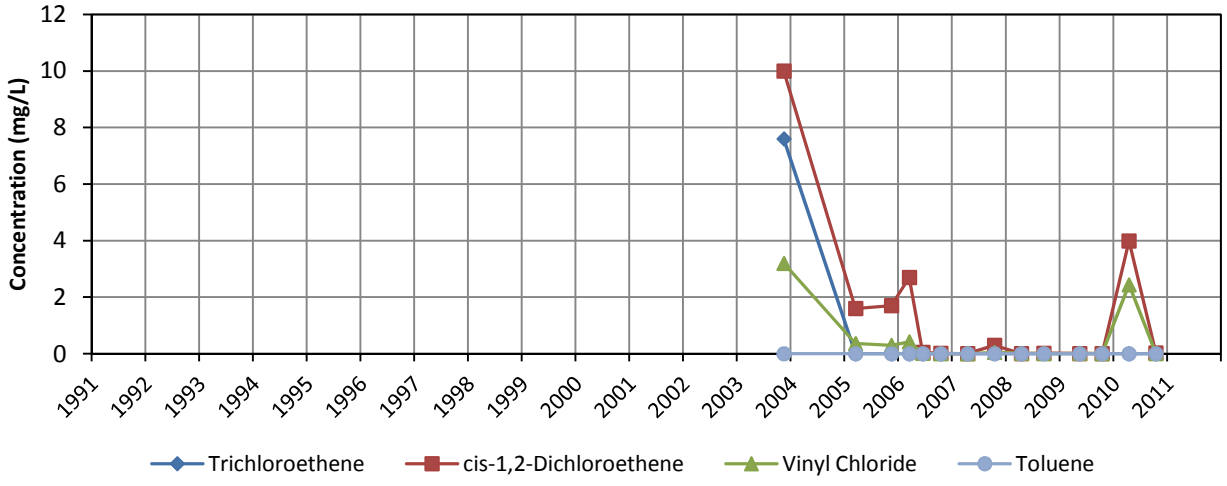
MW-23 VOCs



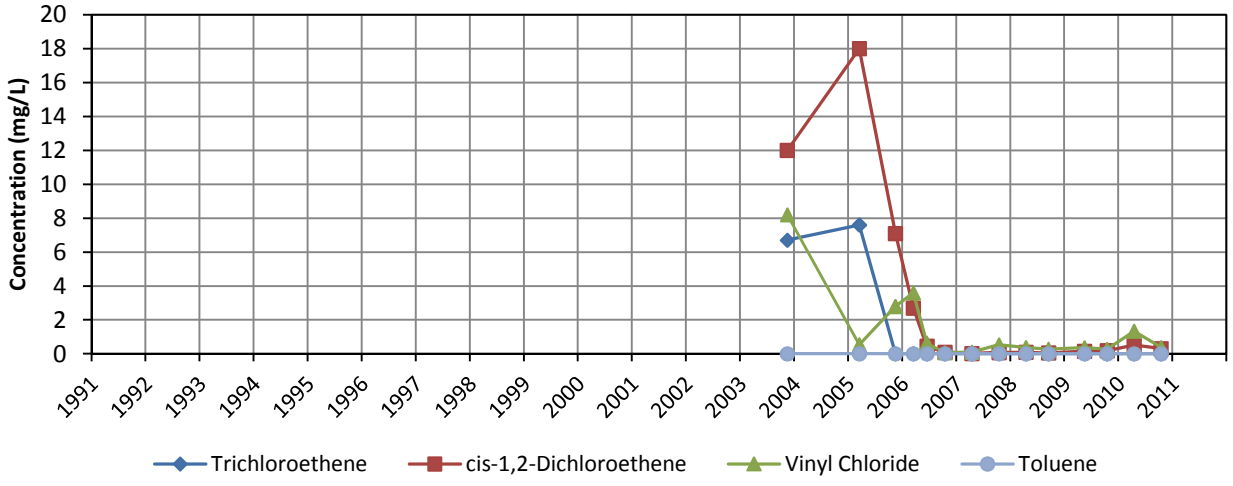
MW-25 VOCs



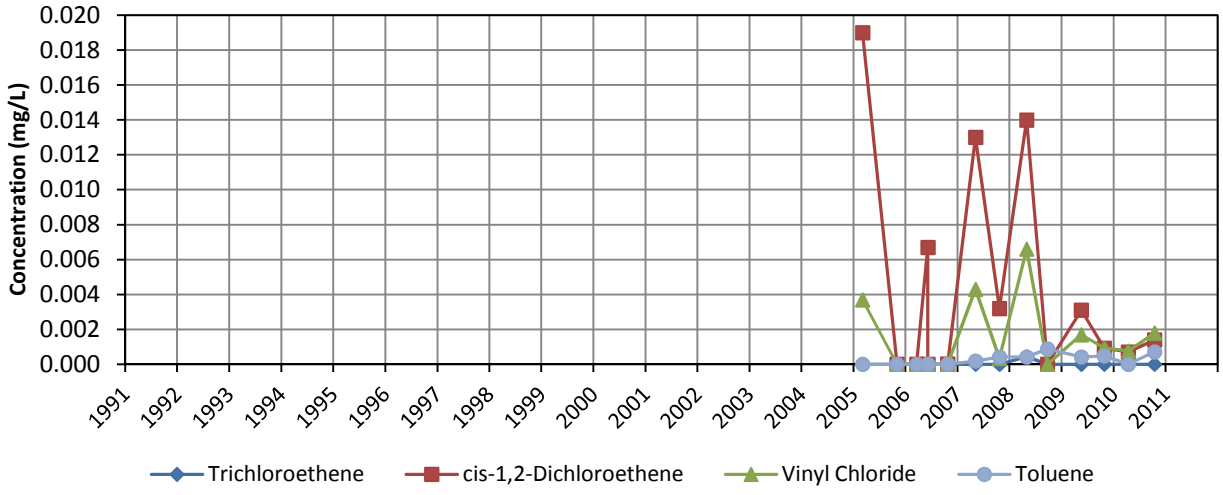
MW-41 VOCs



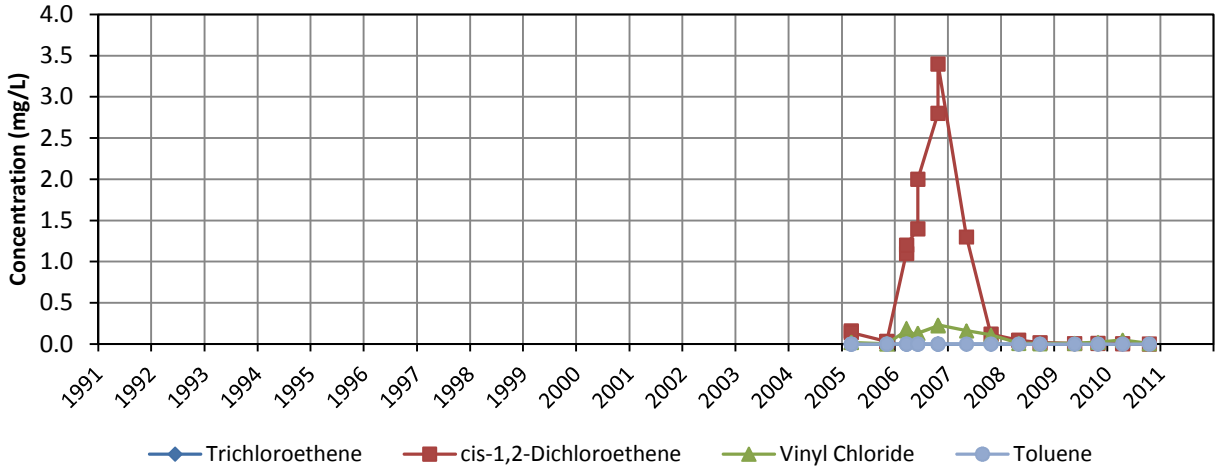
MW-42 VOCs



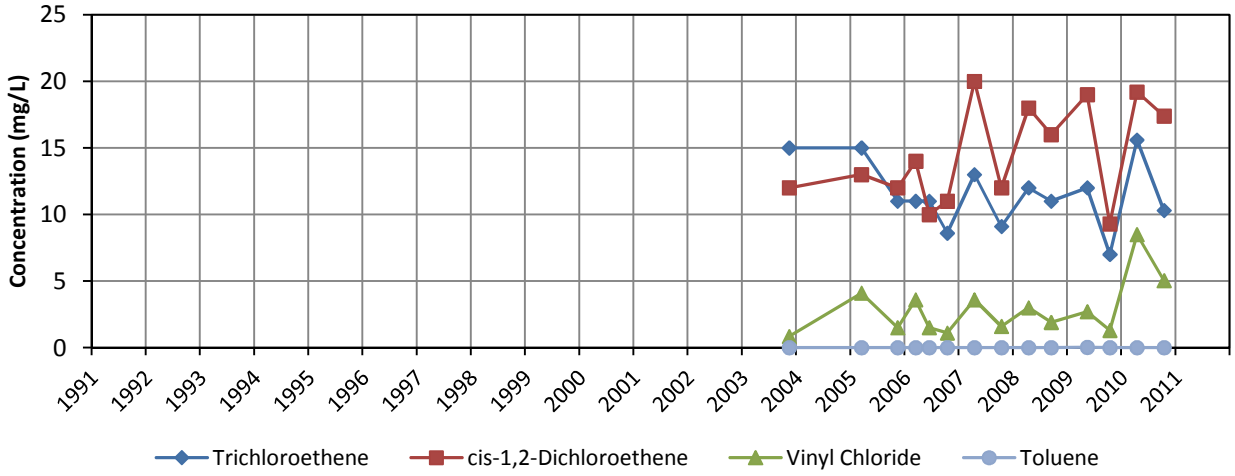
MW-43 VOCs



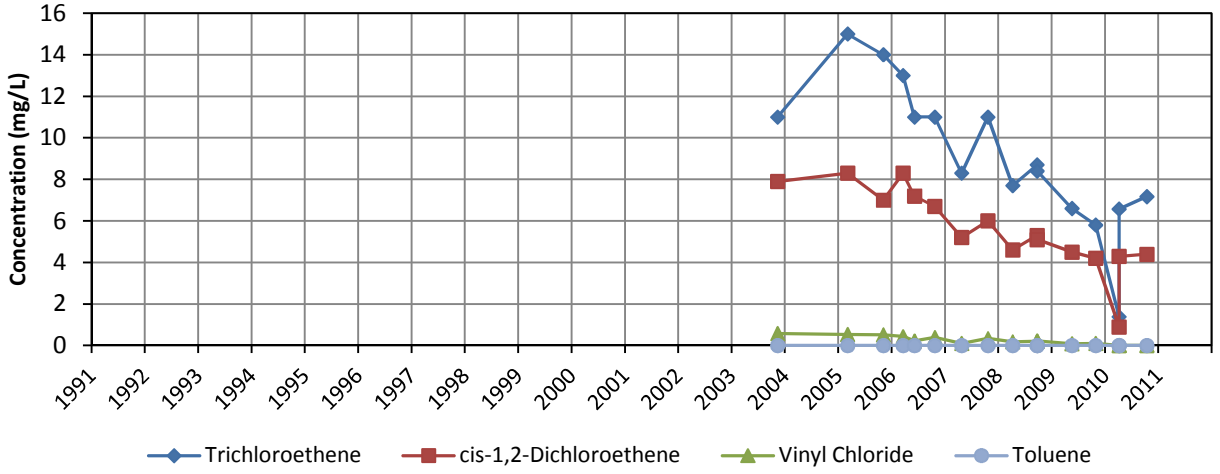
MW-44 VOCs



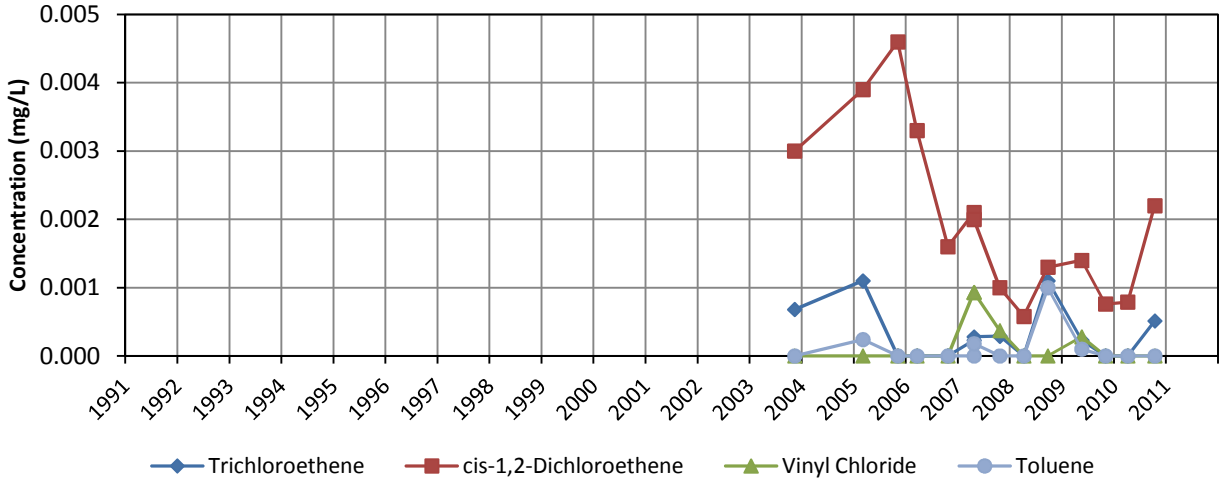
MW-45 VOCs



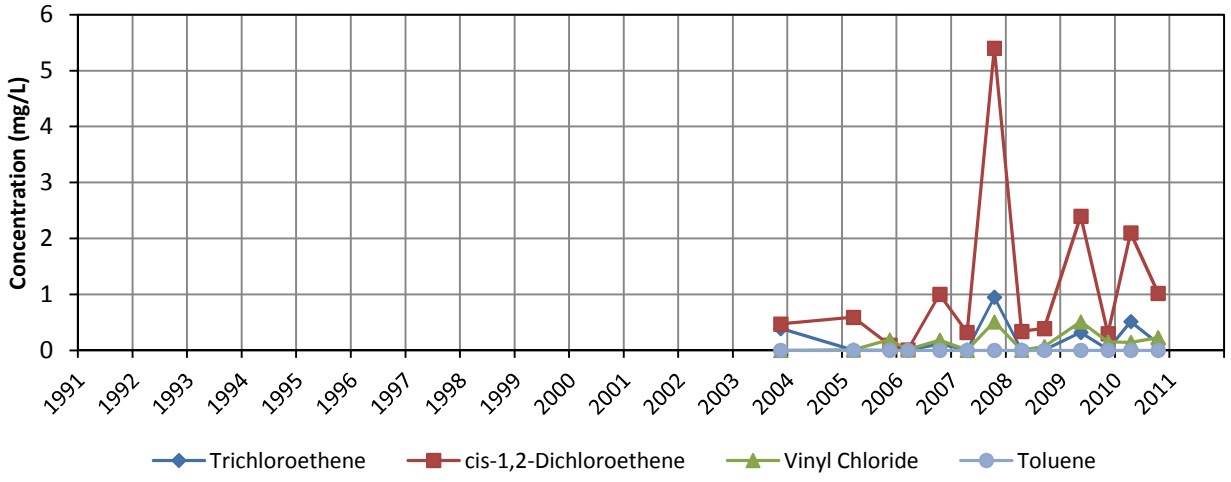
MW-46 VOCs



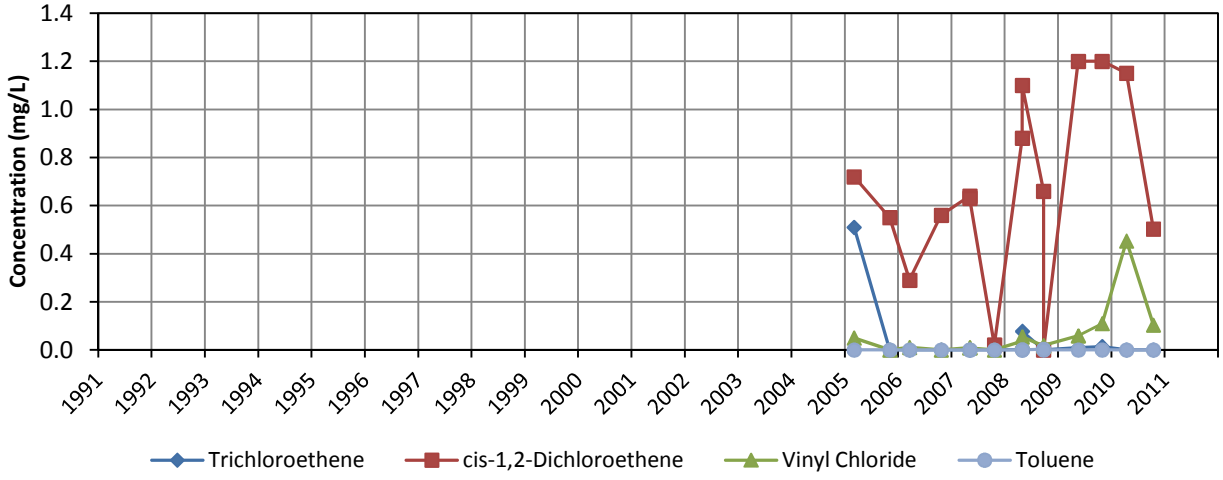
MW-47 VOCs



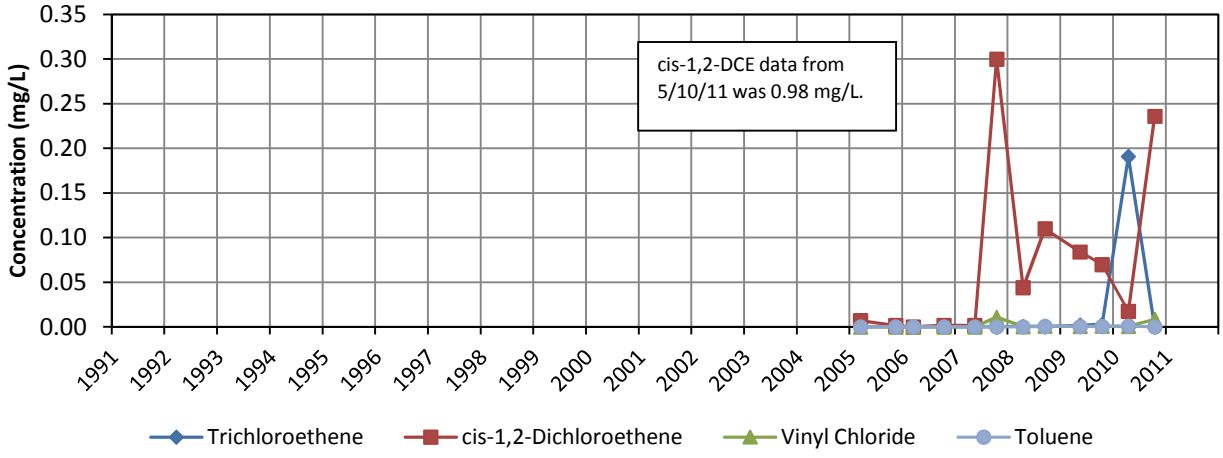
MW-48 VOCs



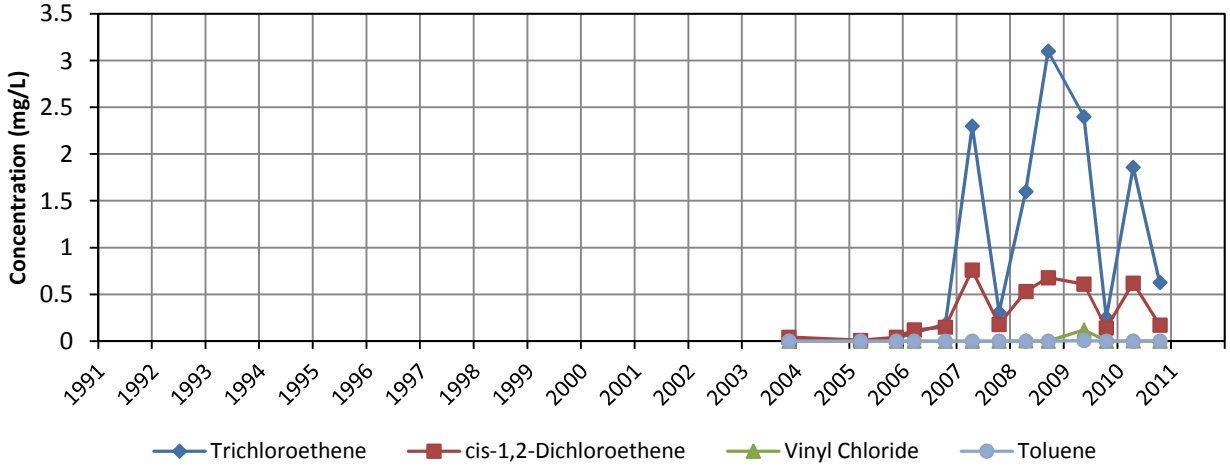
MW-49 VOCs



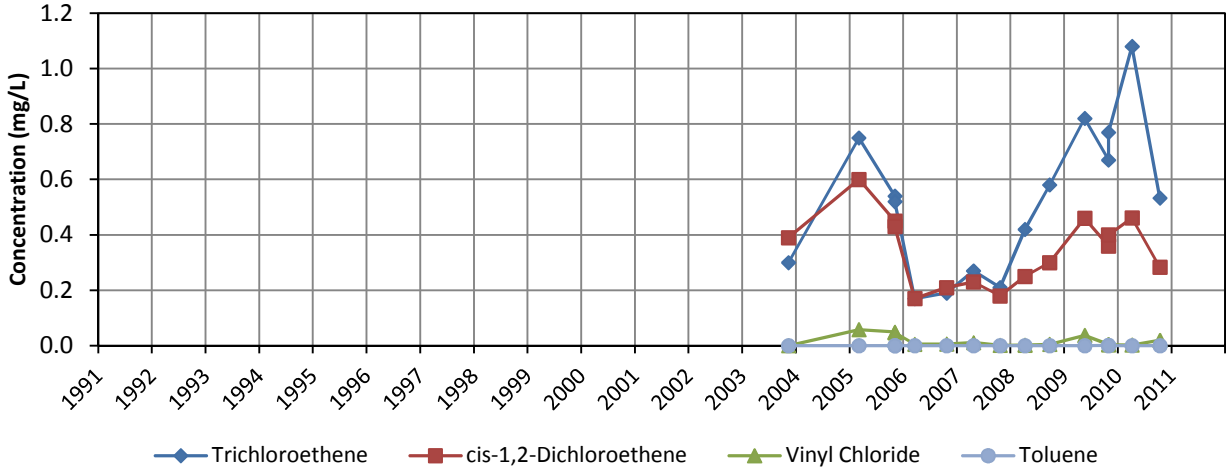
MW-50 VOCs



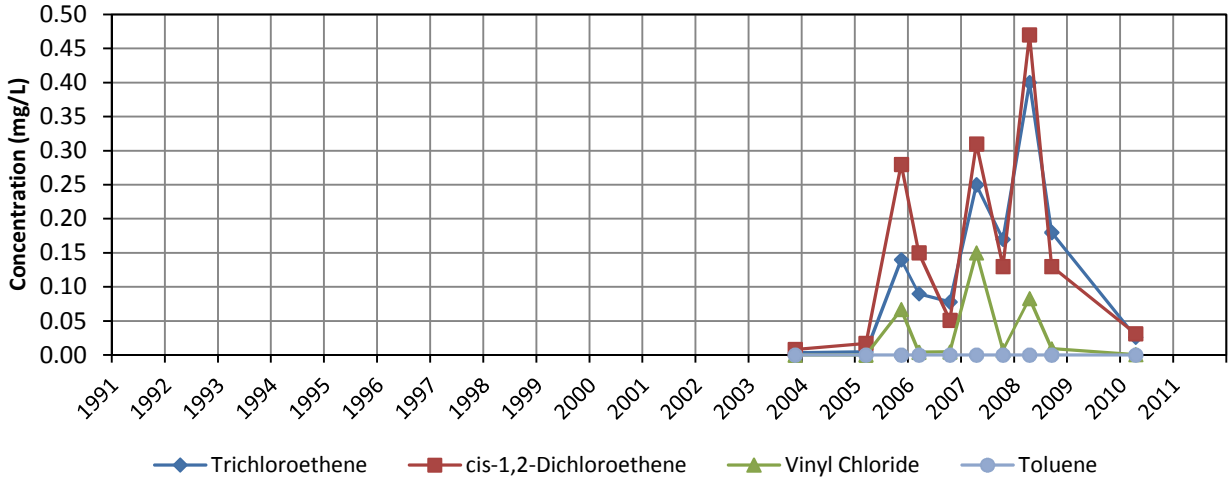
MW-51 VOCs



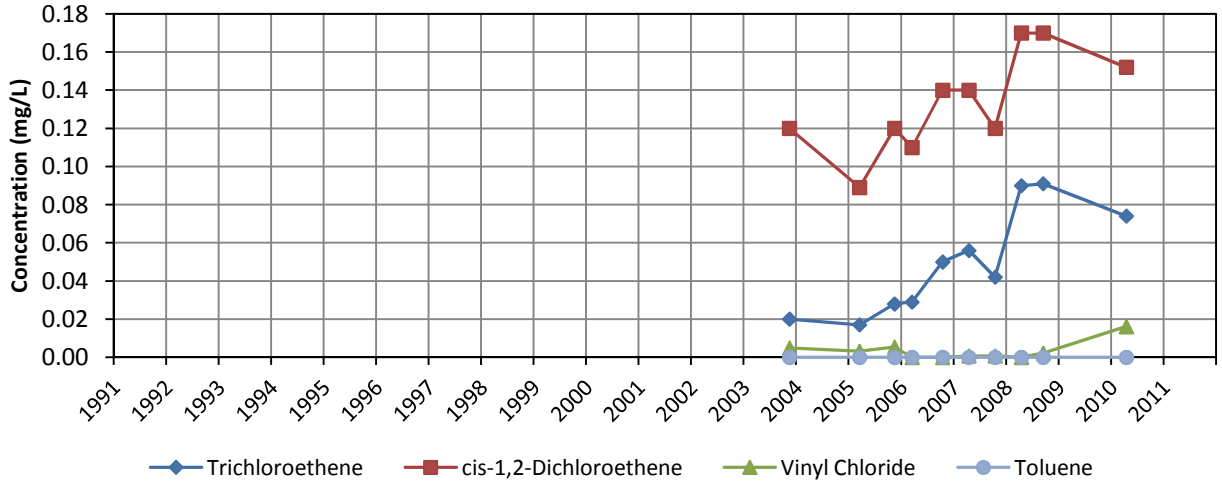
MW-52 VOCs



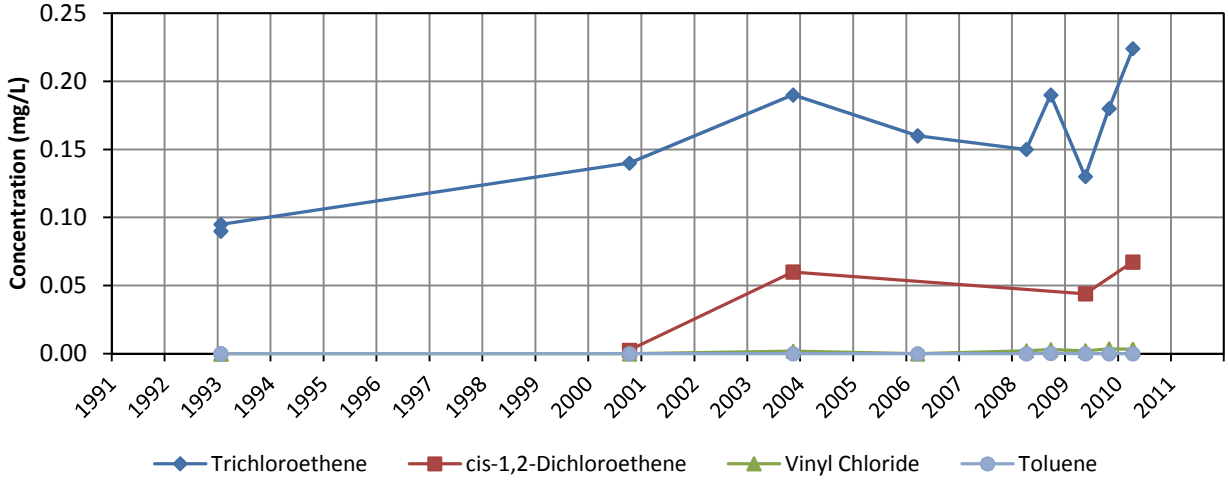
MW-53 VOCs



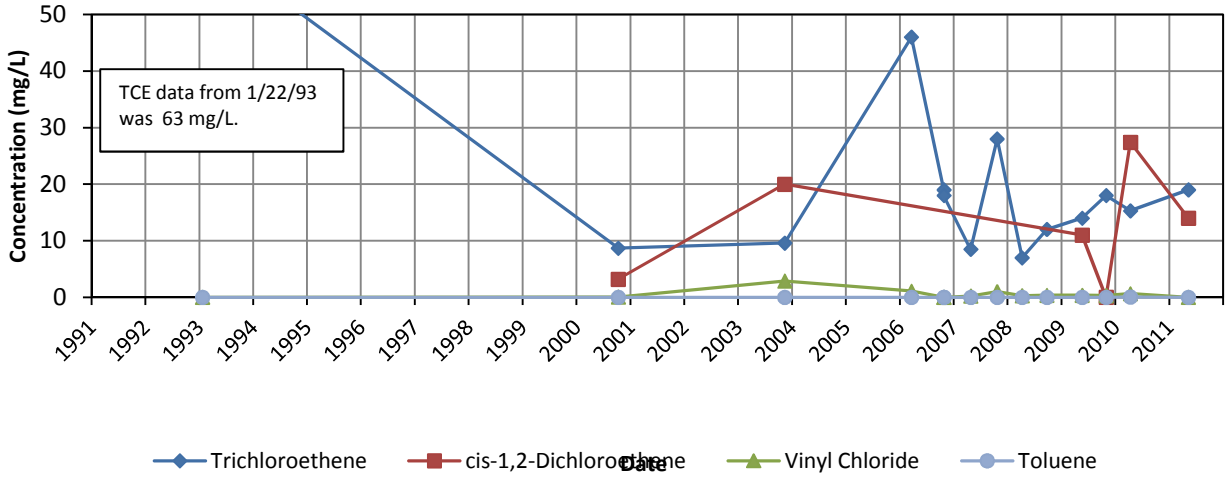
MW-54 VOCs



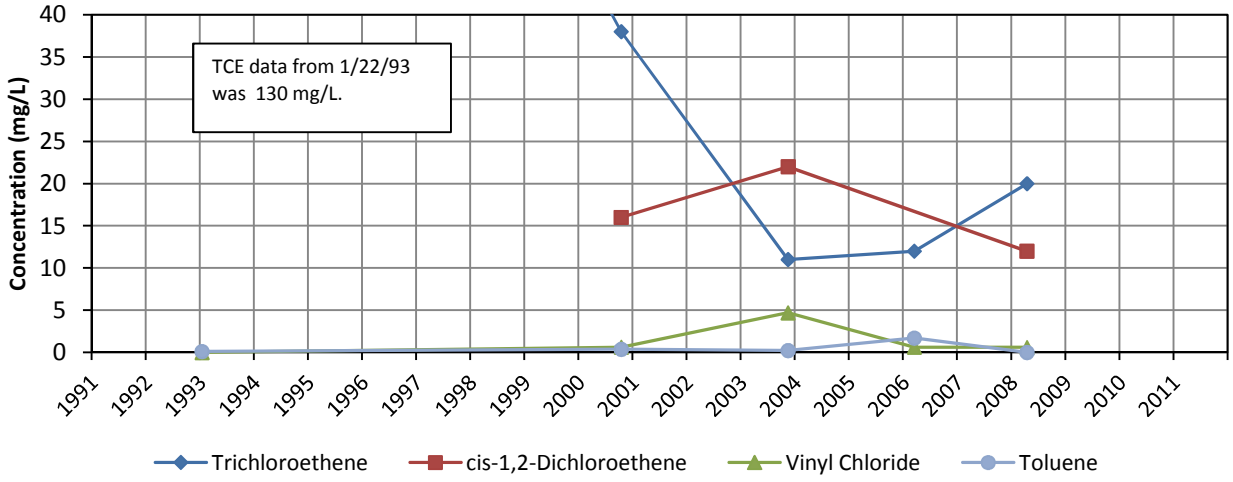
RT-1 VOCs

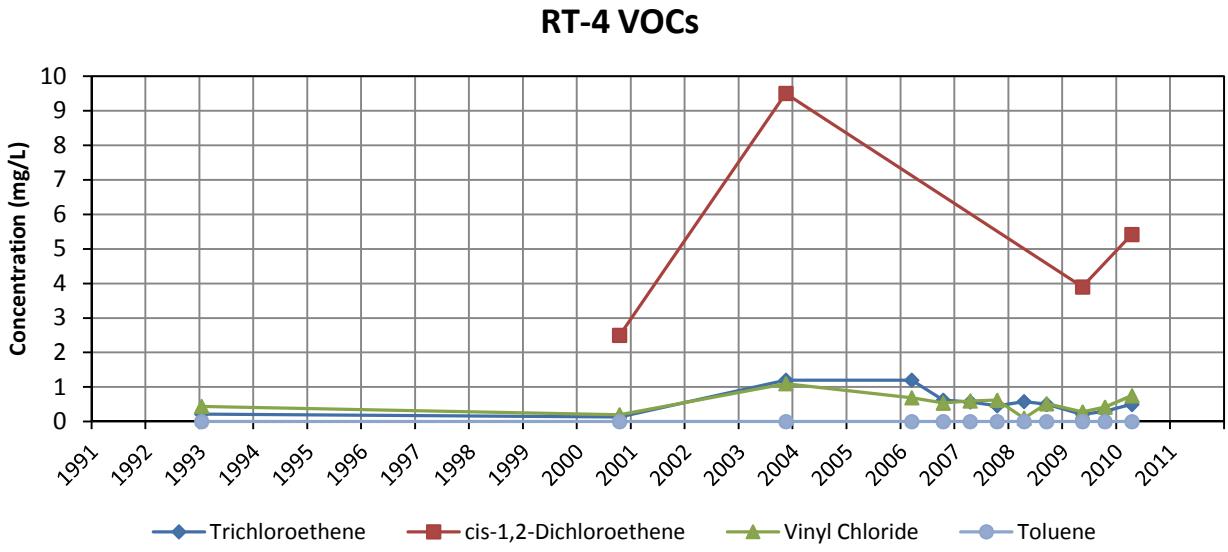


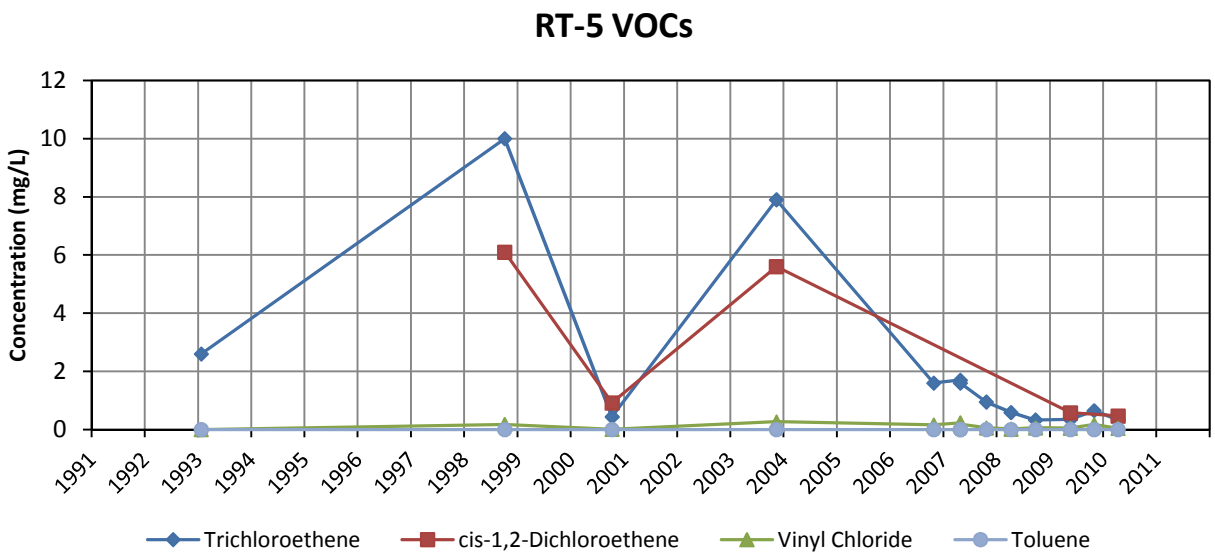
RT-2 VOCs



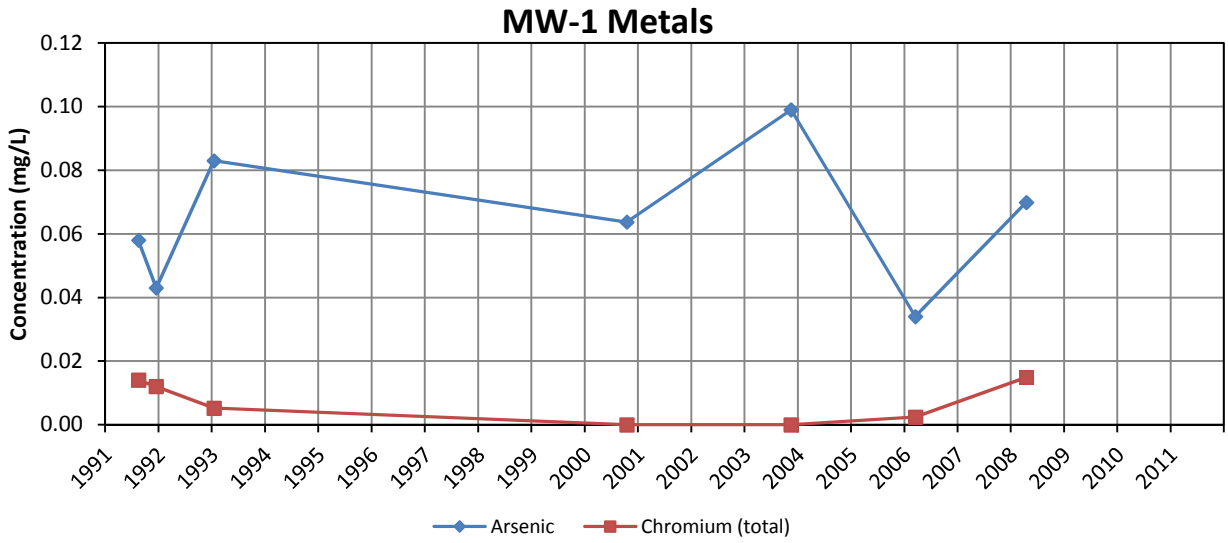
RT-3 VOCs

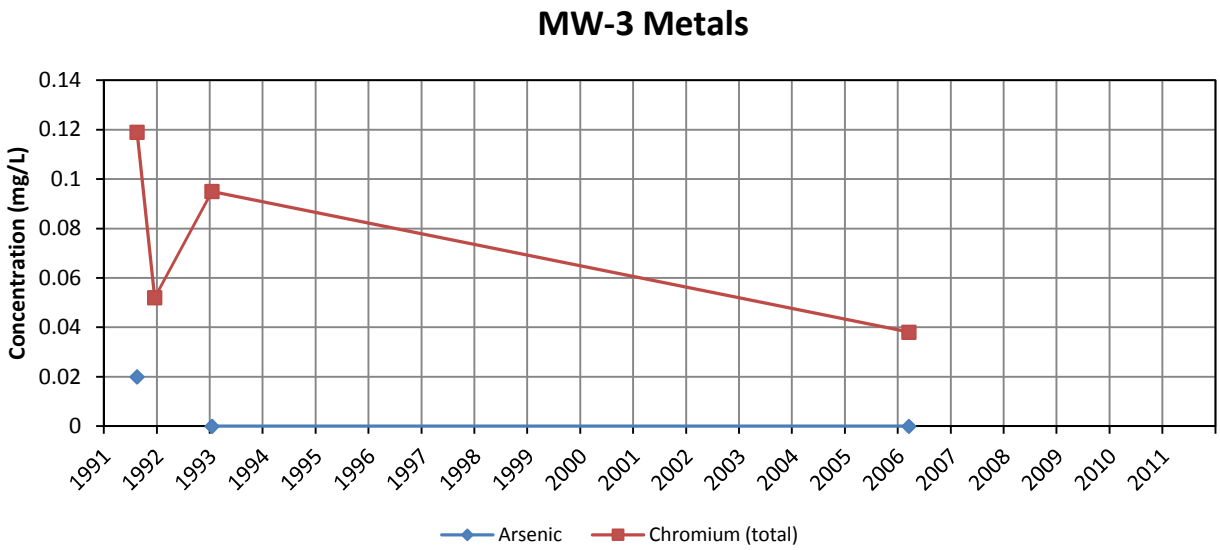


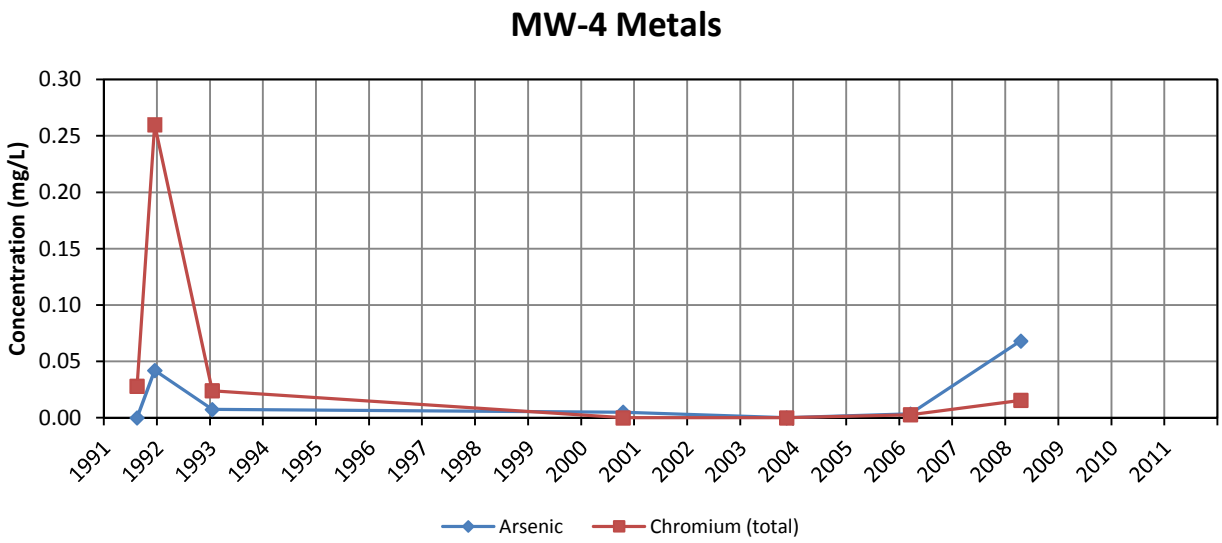

RT-4 VOCs
Concentration (mg/L)
10
9
8
7
6
5
4
3
2
1
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Trichloroethene
cis-1,2-Dichloroethene
Vinyl Chloride
Toluene


RT-5 VOCs
Concentration (mg/L)
12
10
8
6
4
2
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Trichloroethene
cis-1,2-Dichloroethene
Vinyl Chloride
Toluene

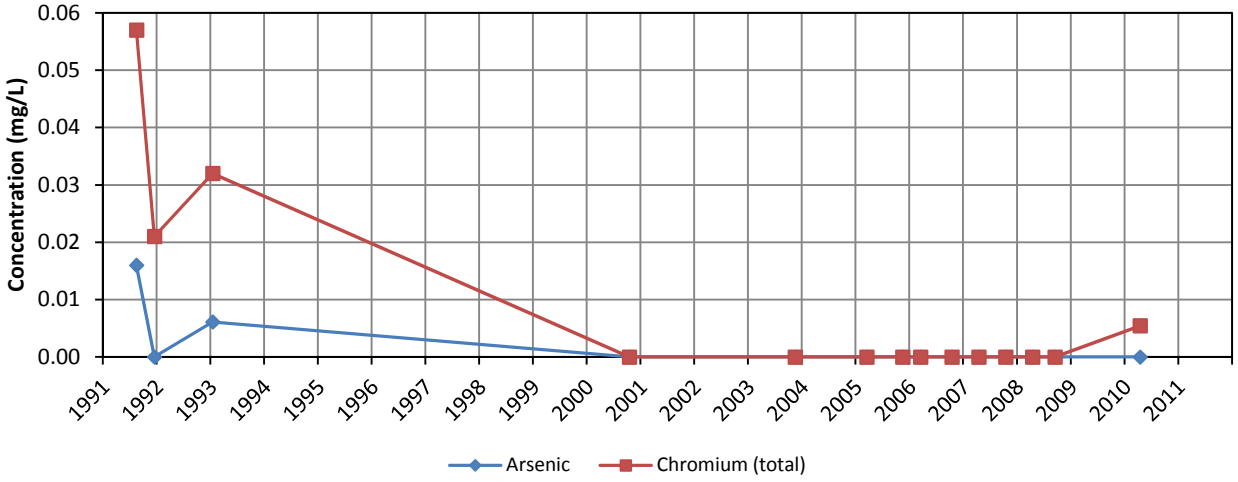
Groundwater Metal Plots


MW-1 Metals
Concentration (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium (total)

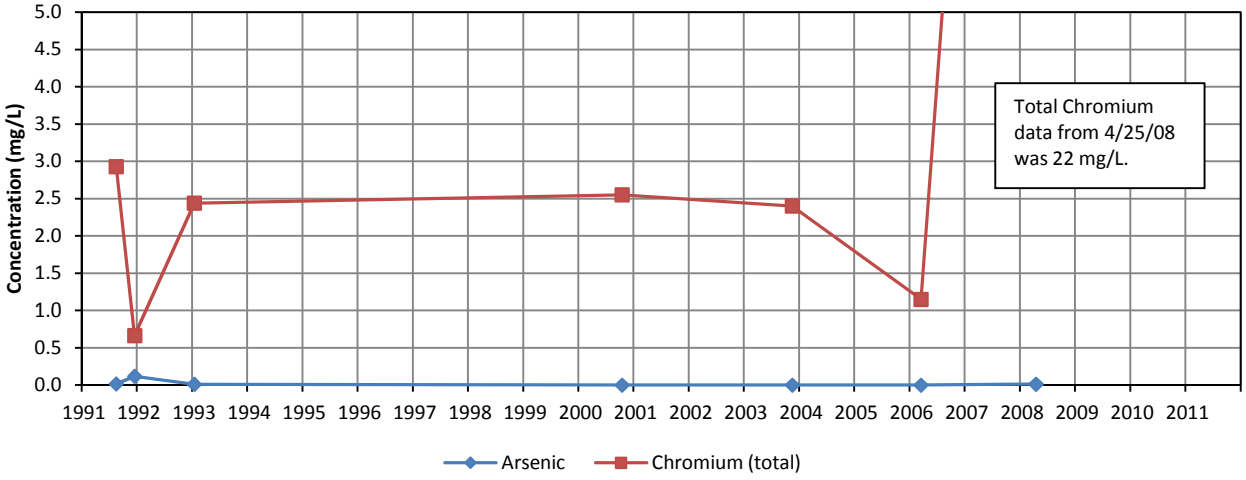

MW-3 Metals
Concentration (mg/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium (total)


MW-4 Metals
Concentration (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium (total)

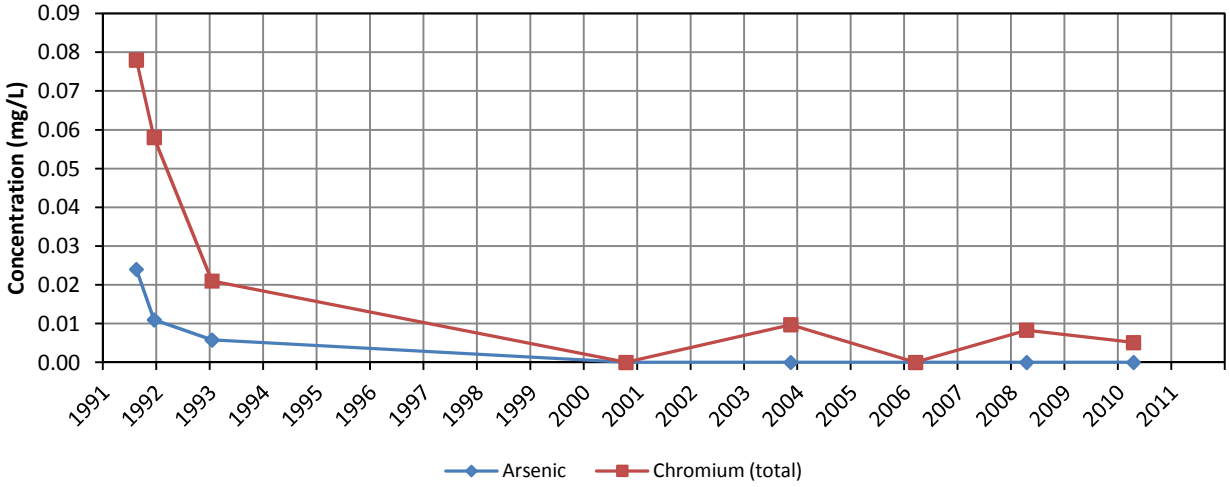
MW-5 Metals



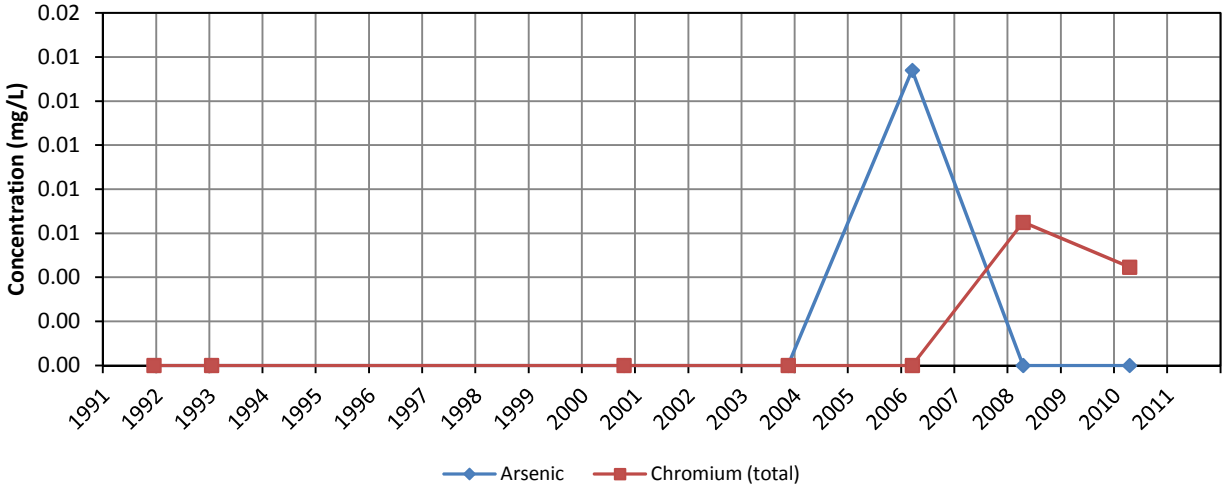
MW-6 Metals



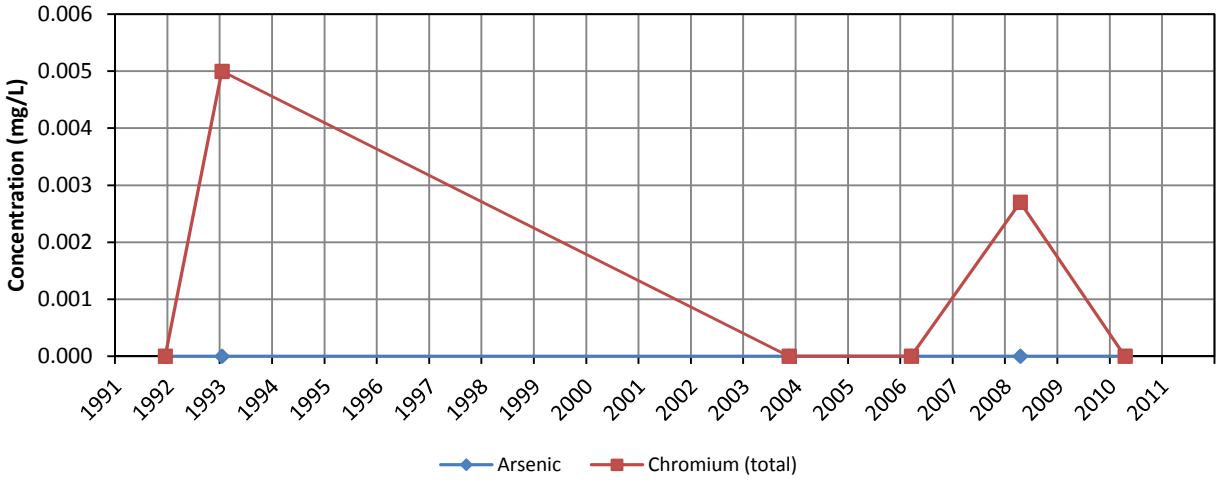
MW-7 Metals



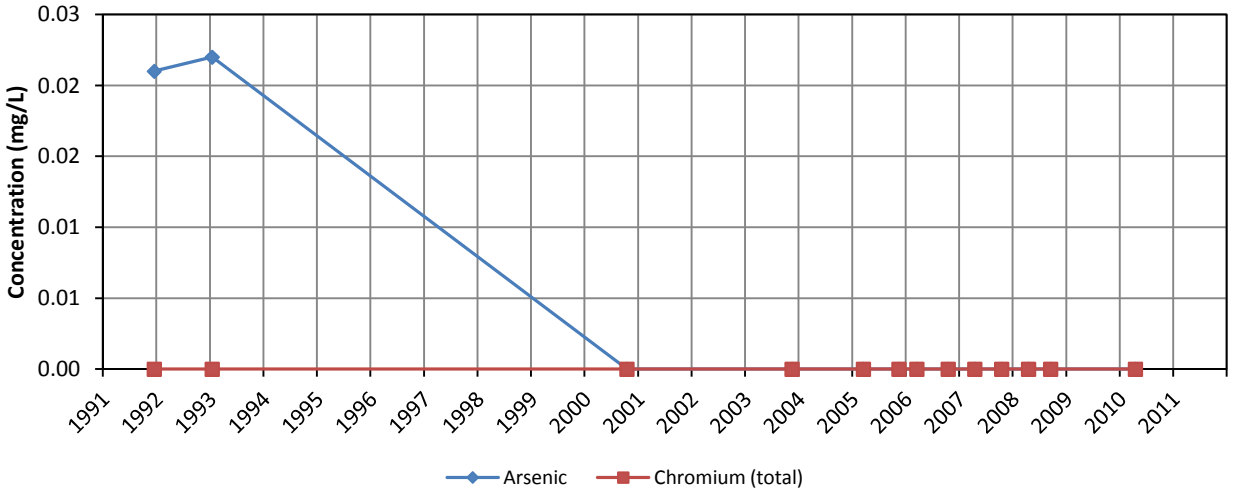
MW-8 Metals



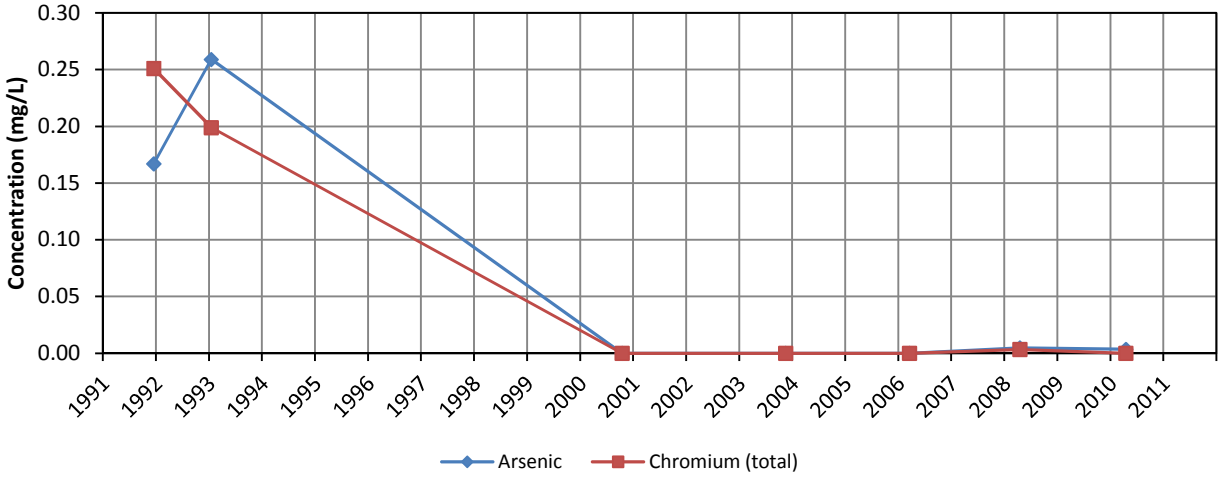
MW-9 Metals



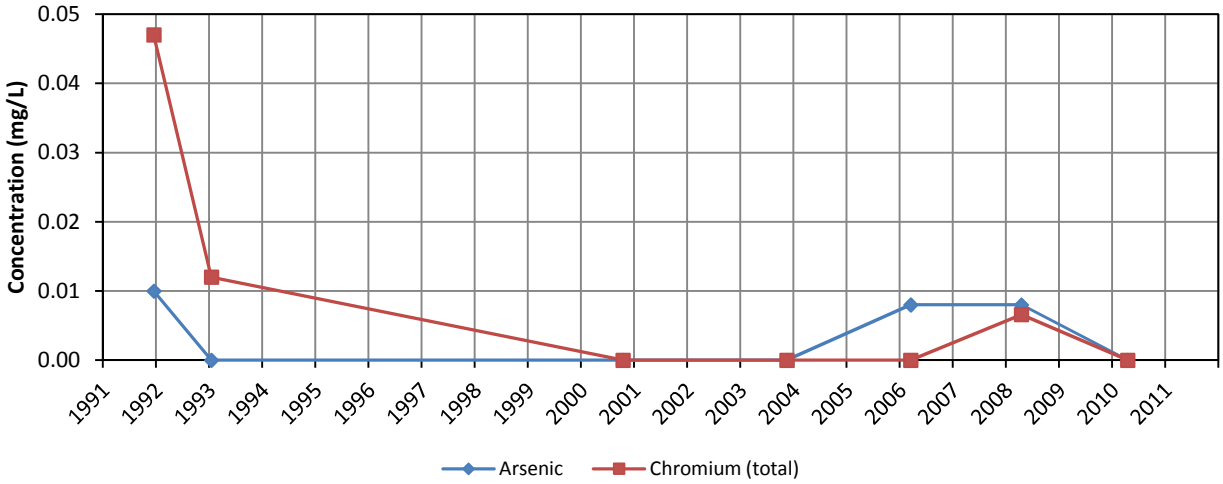
MW-10 Metals



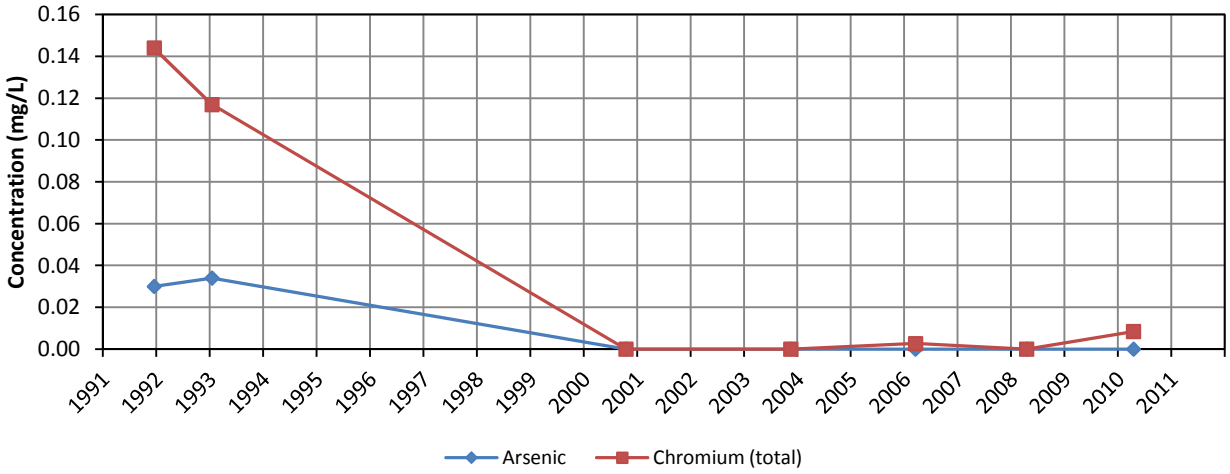
MW-11 Metals



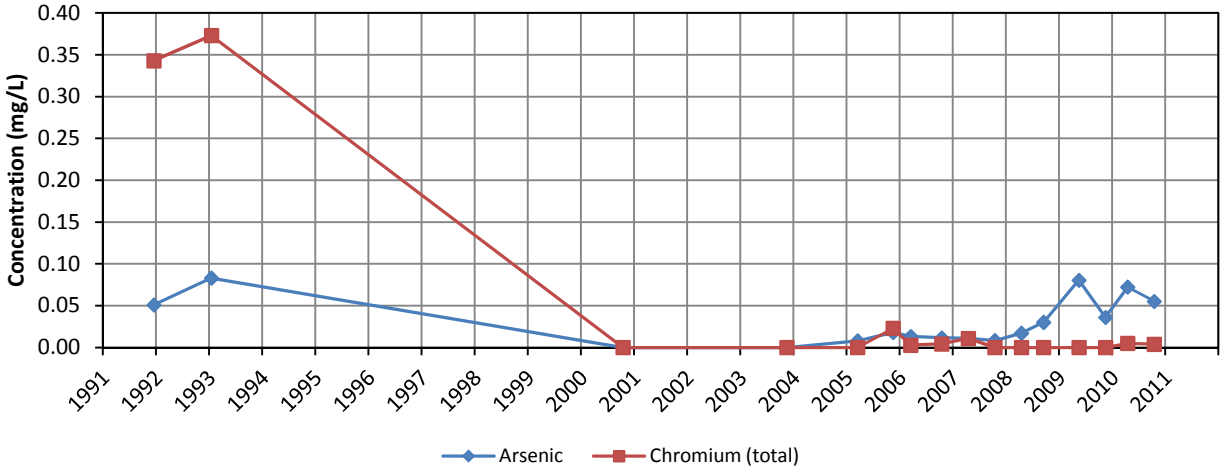
MW-12 Metals



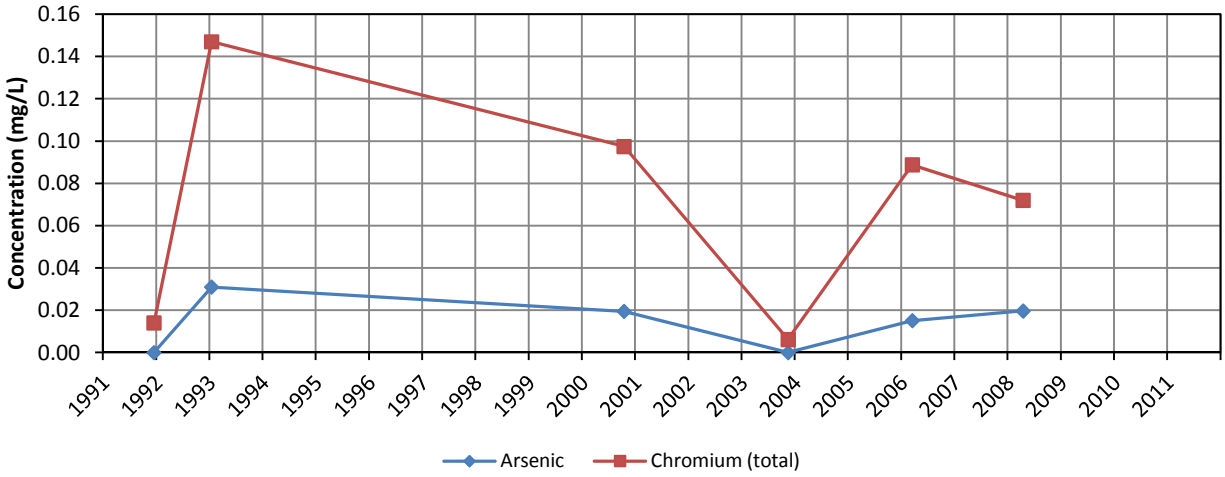
MW-13 Metals



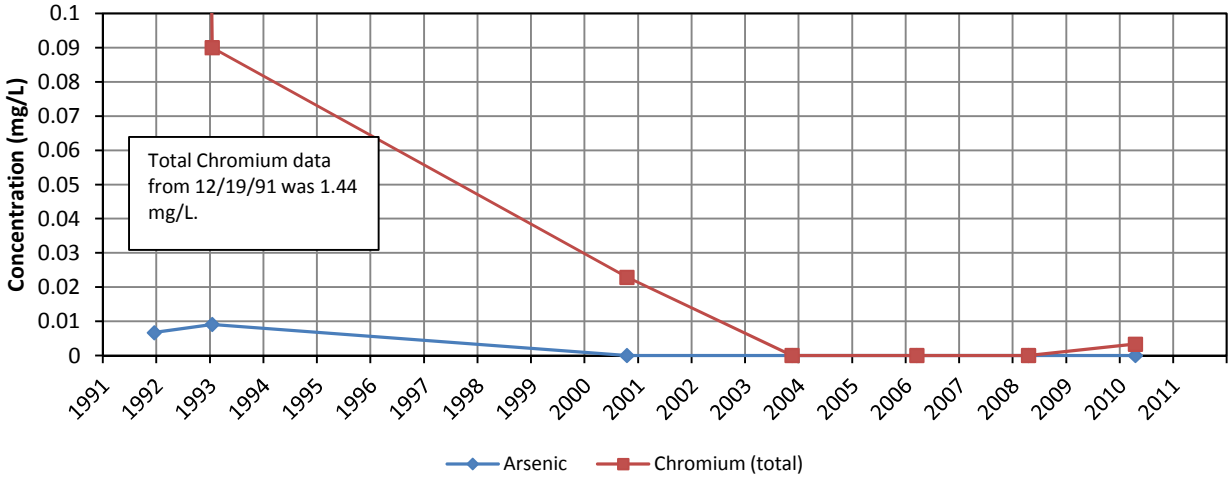
MW-14 Metals



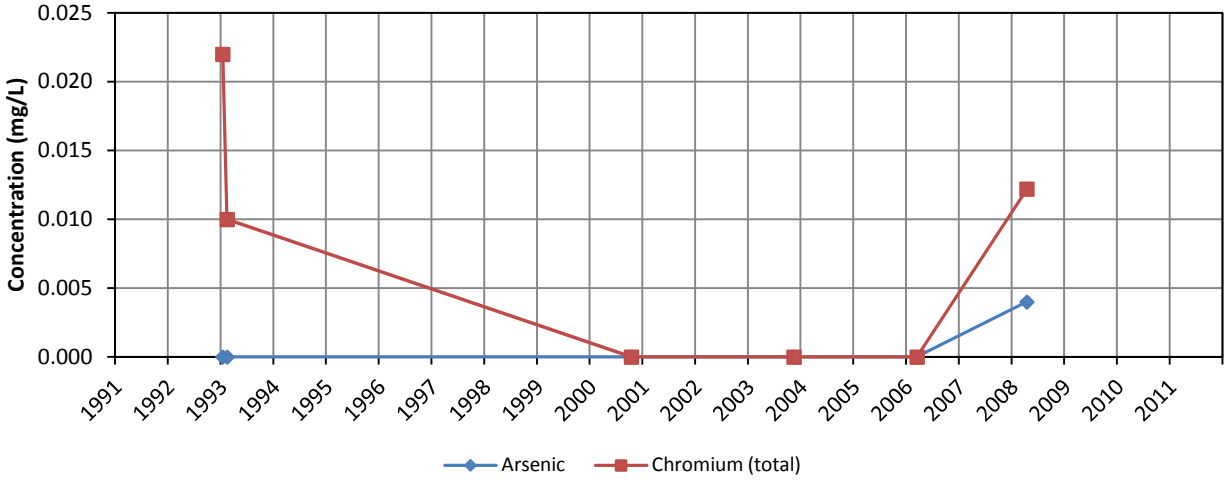
MW-15 Metals



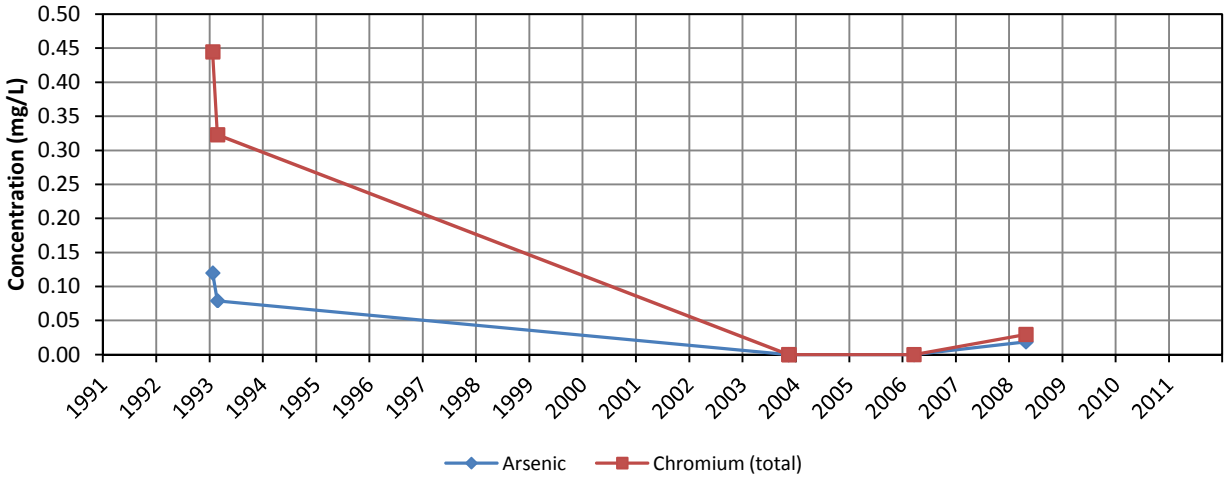
MW-16 Metals



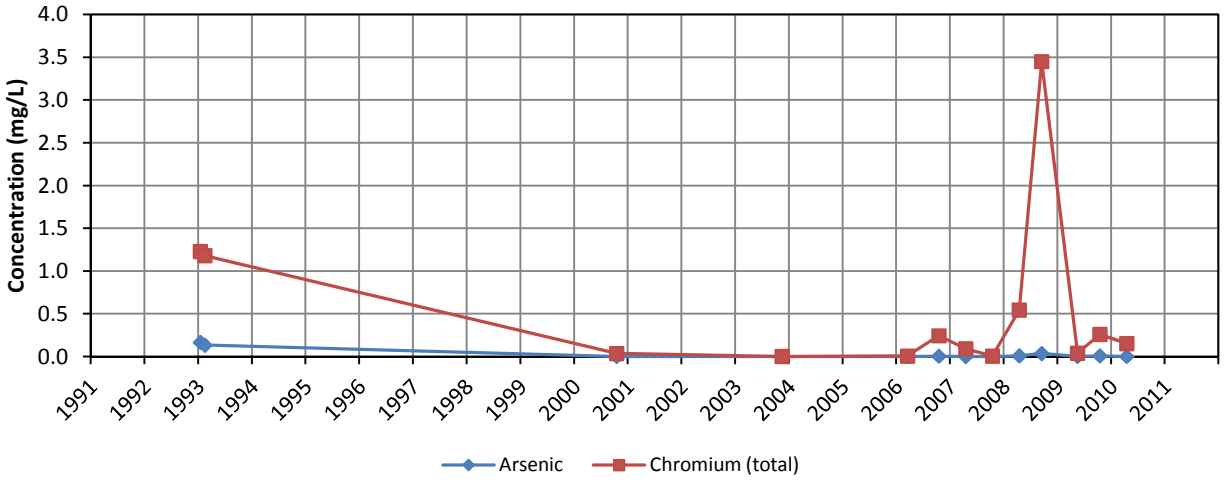
MW-17 Metals



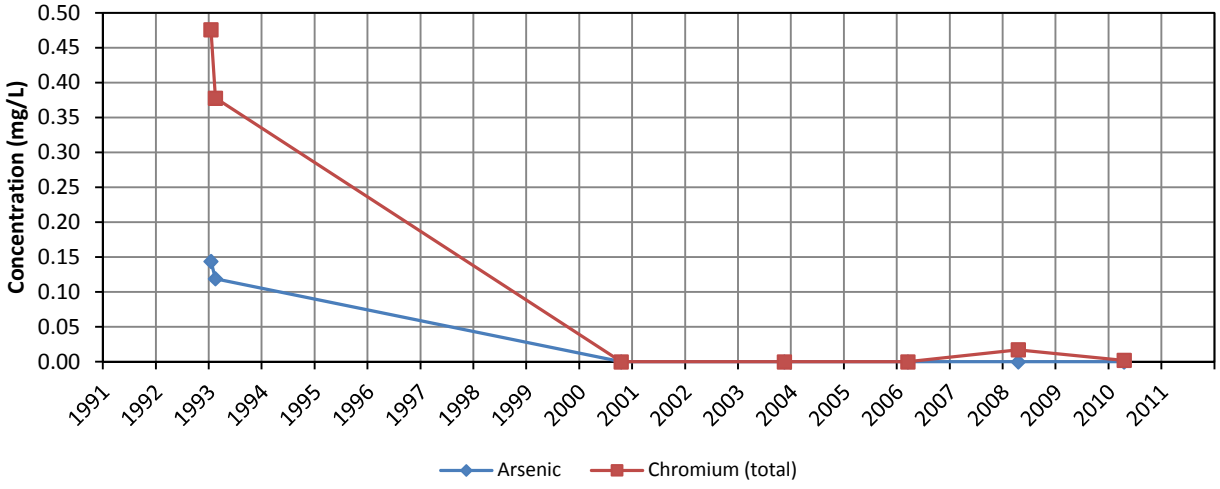
MW-20 Metals



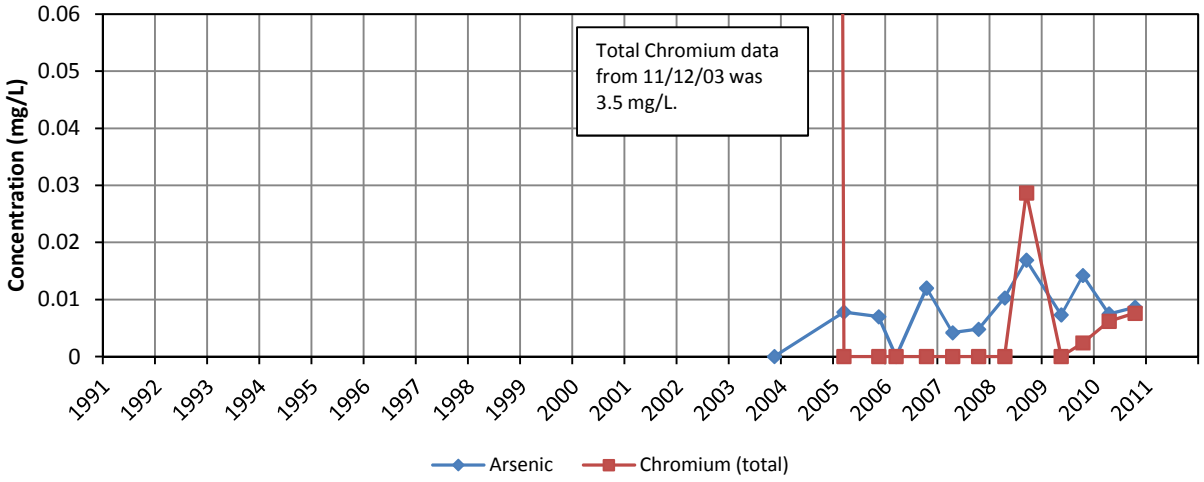
MW-23 Metals



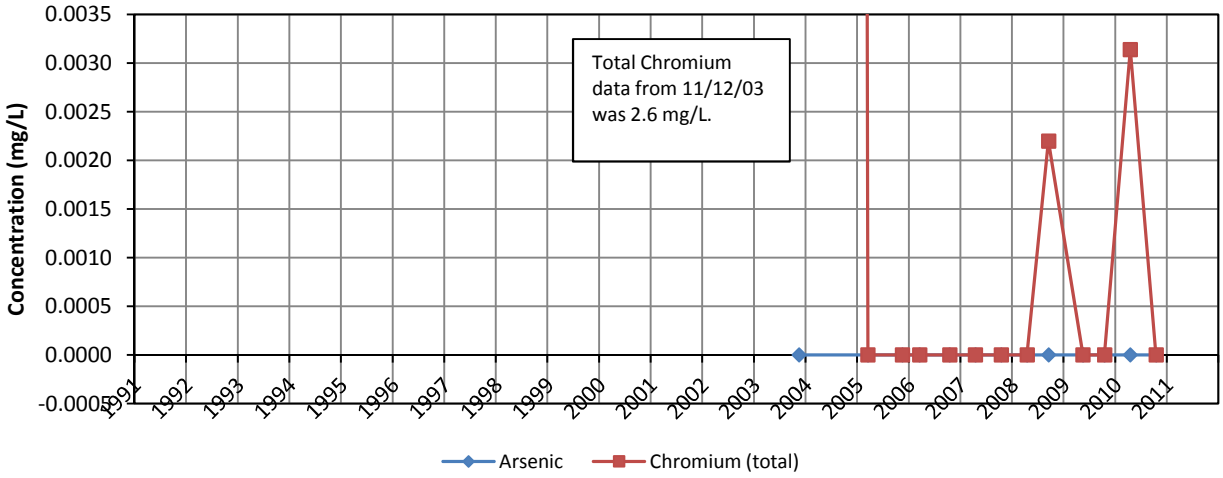
MW-25 Metals



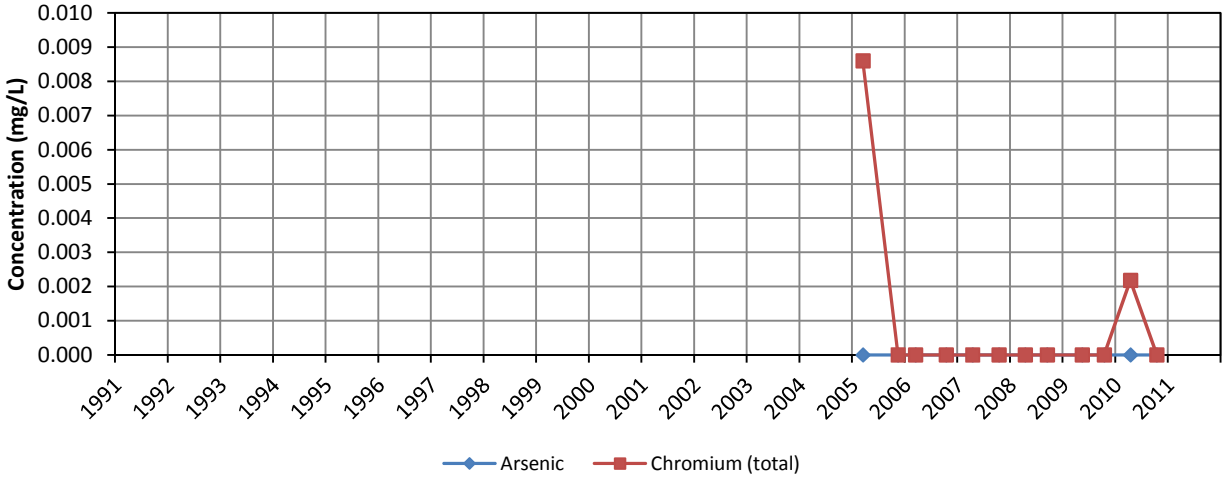
MW-41 Metals



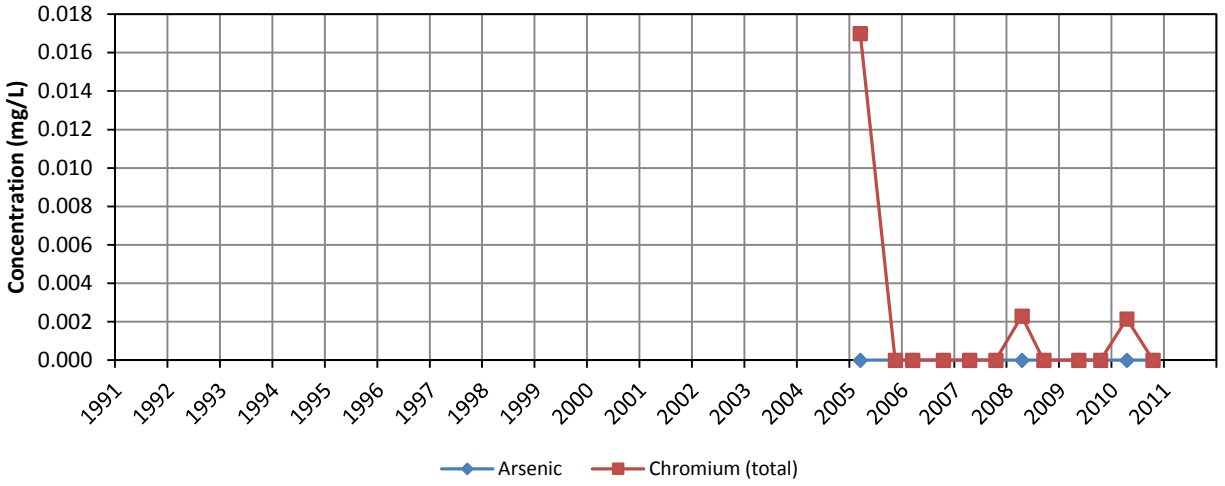
MW-42 Metals



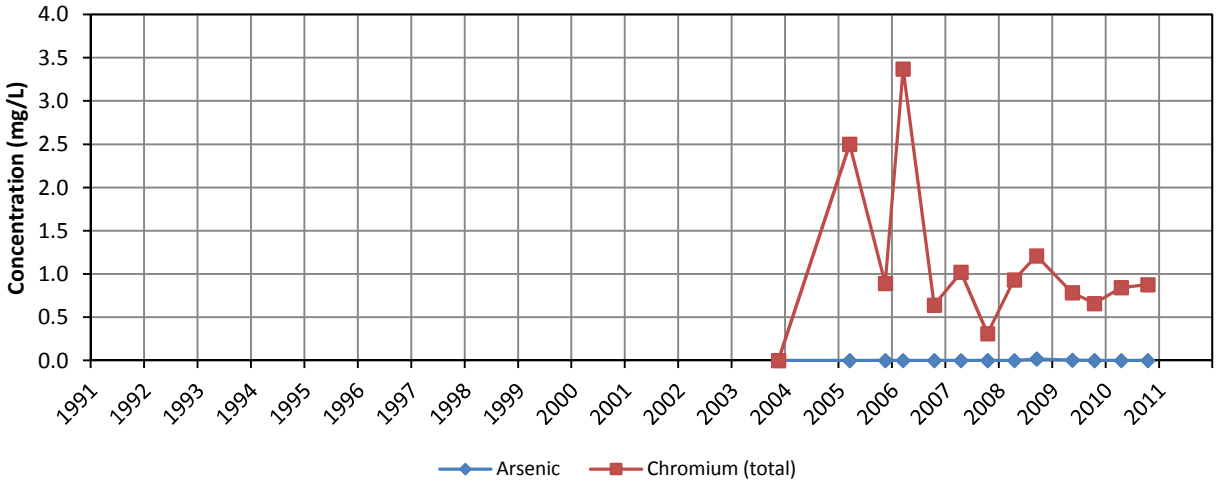
MW-43 Metals



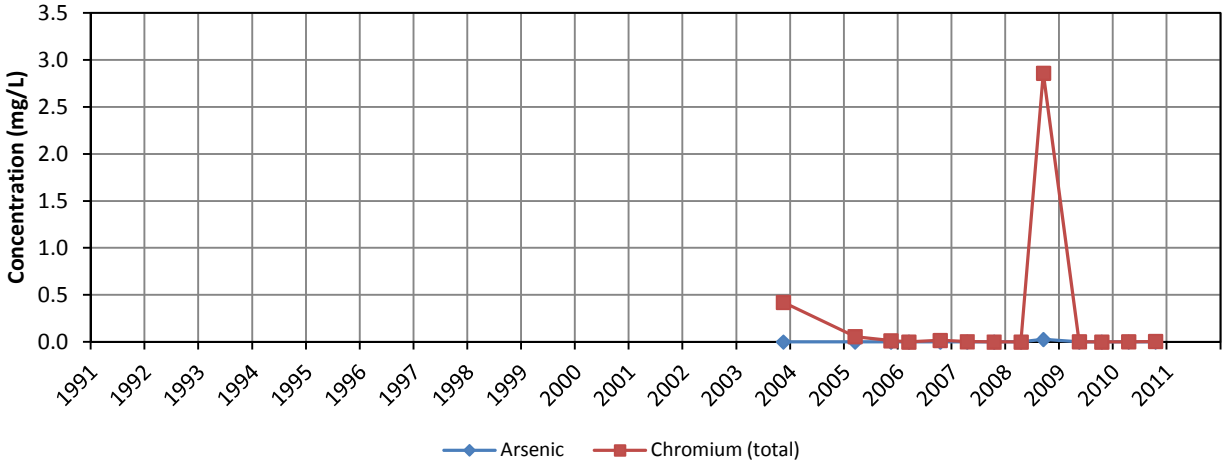
MW-44 Metals



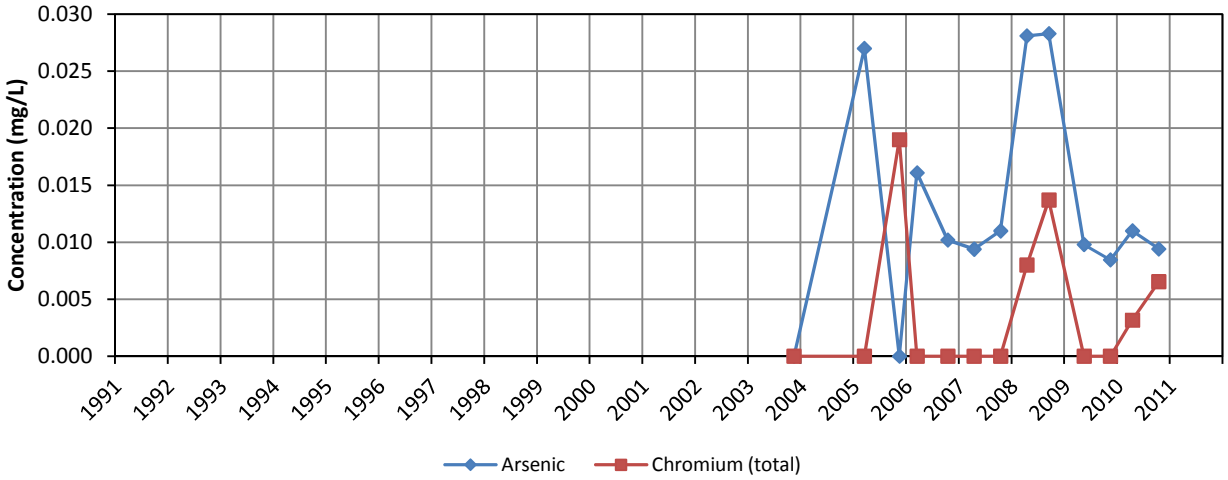
MW-45 Metals



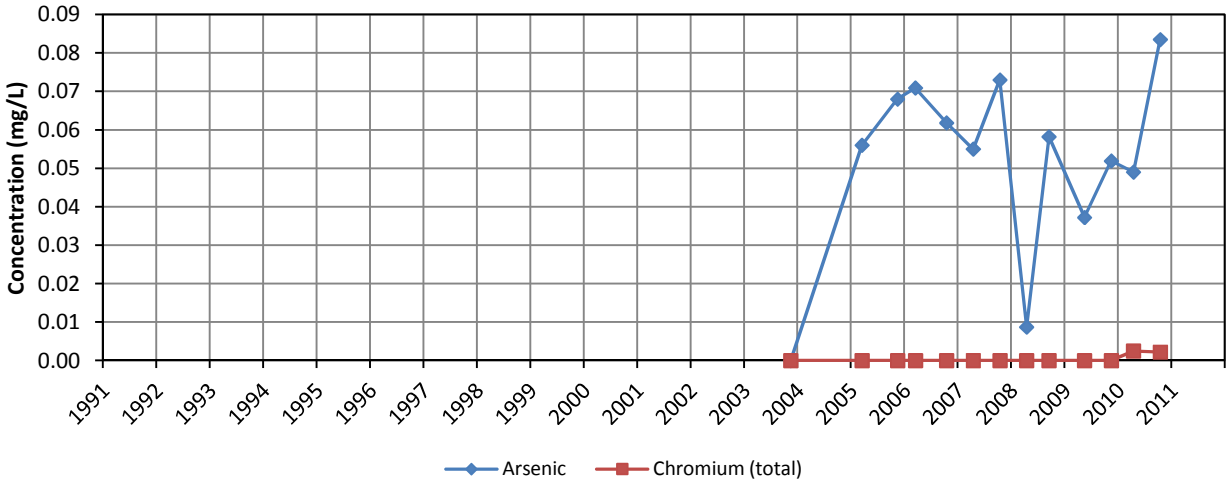
MW-46 Metals



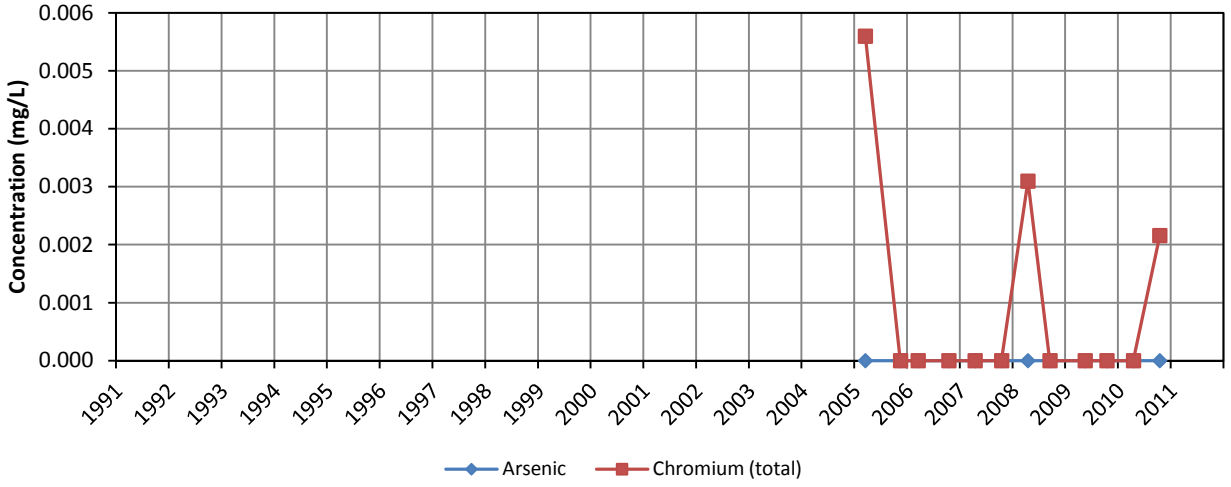
MW-47 Metals



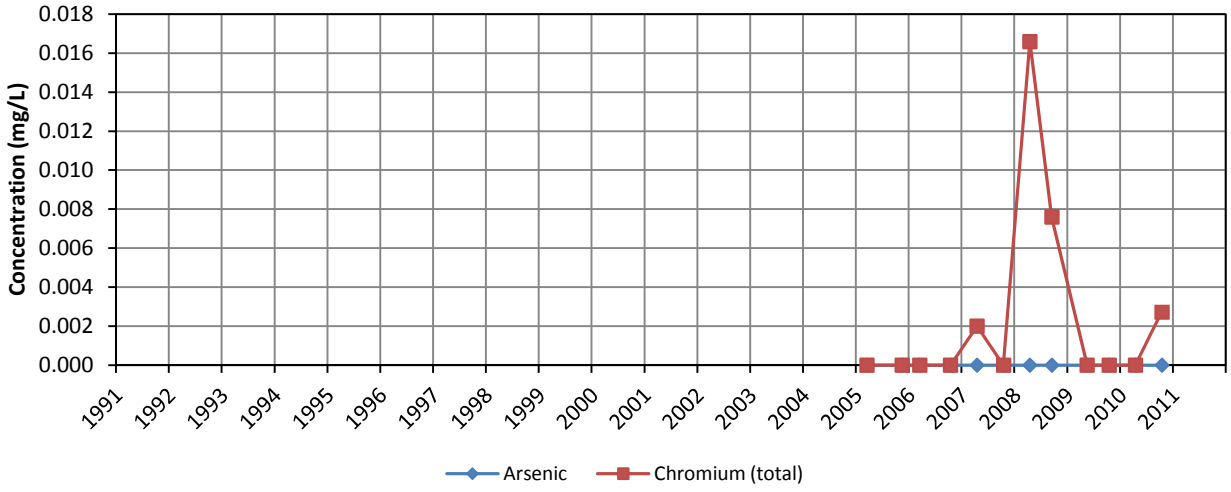
MW-48 Metals



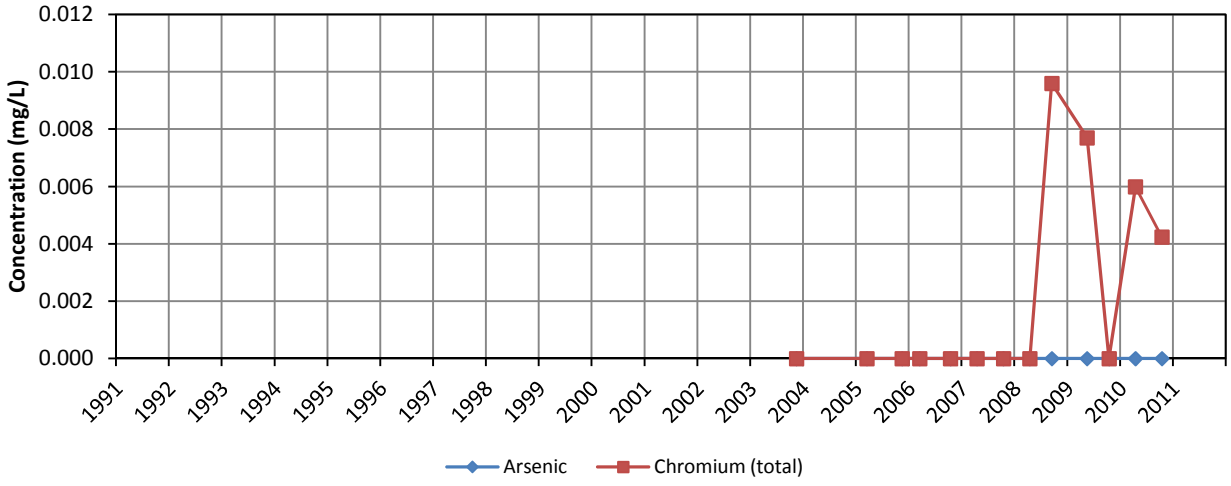
MW-49 Metals



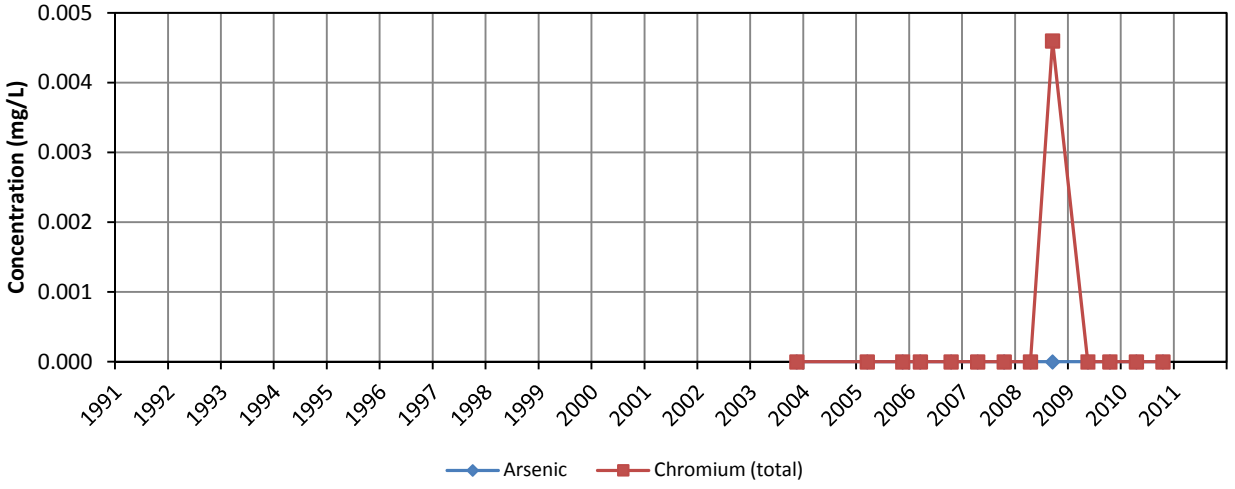
MW-50 Metals



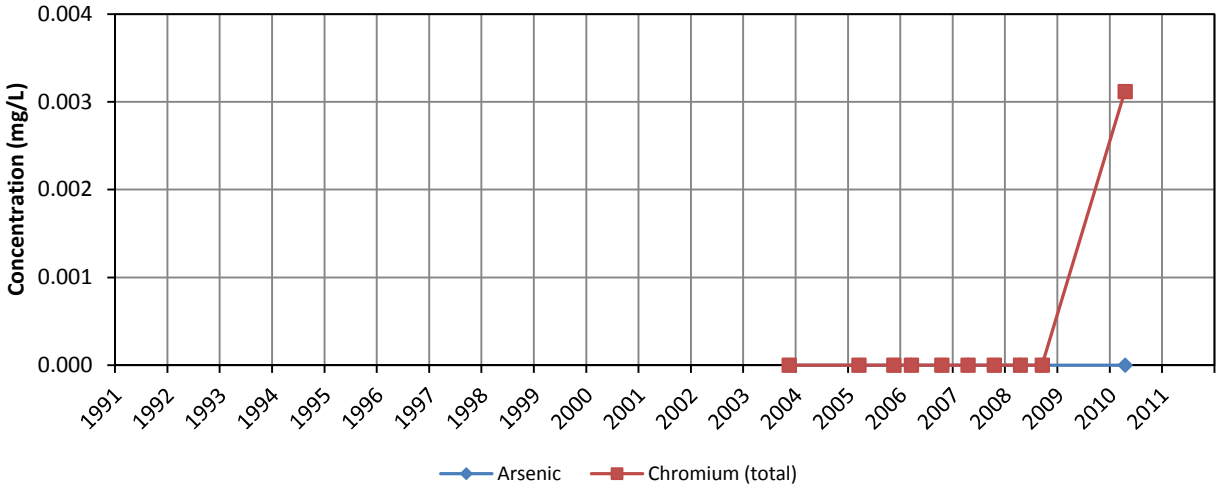
MW-51 Metals



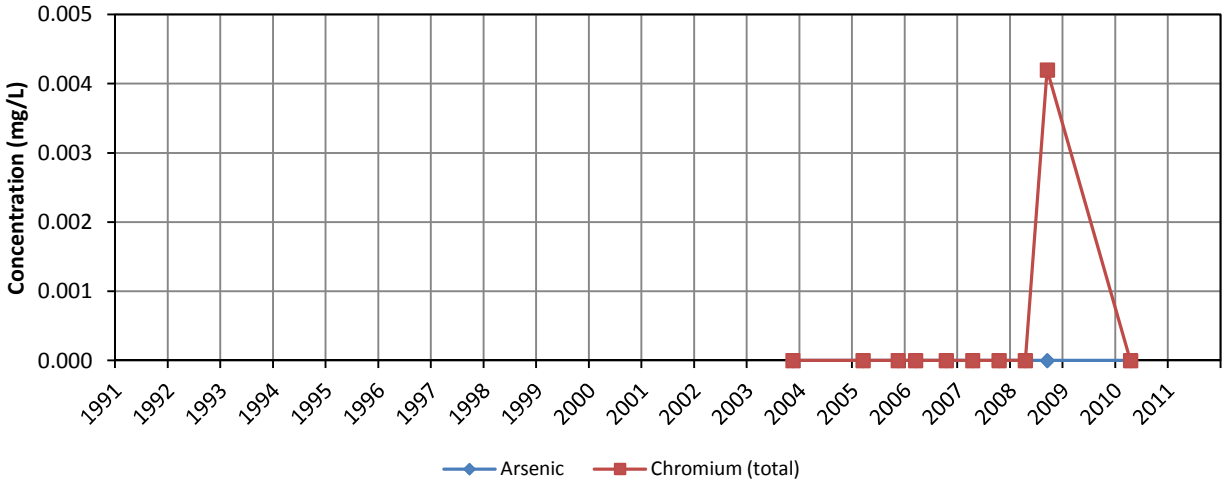
MW-52 Metals



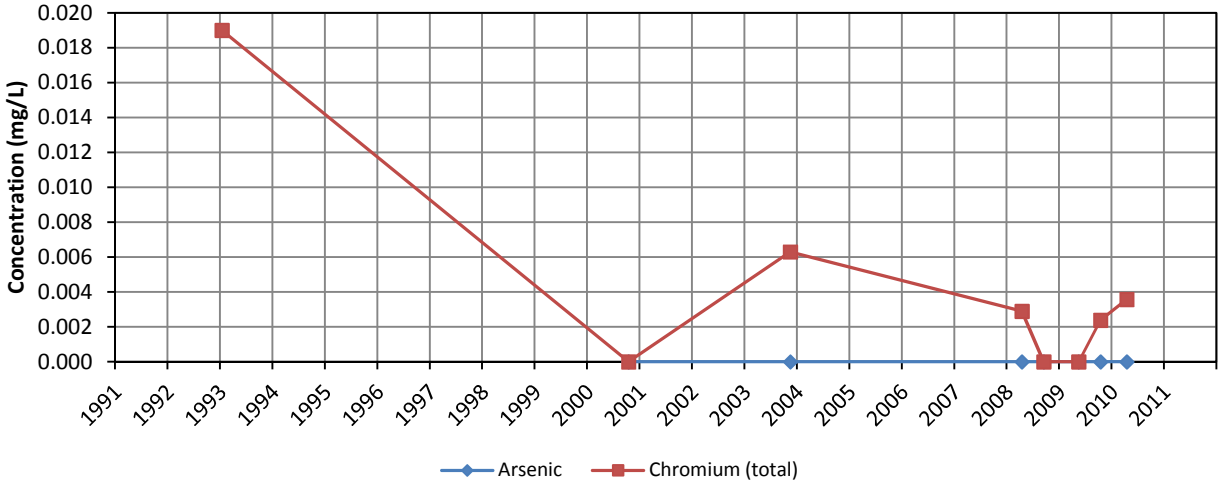
MW-53 Metals



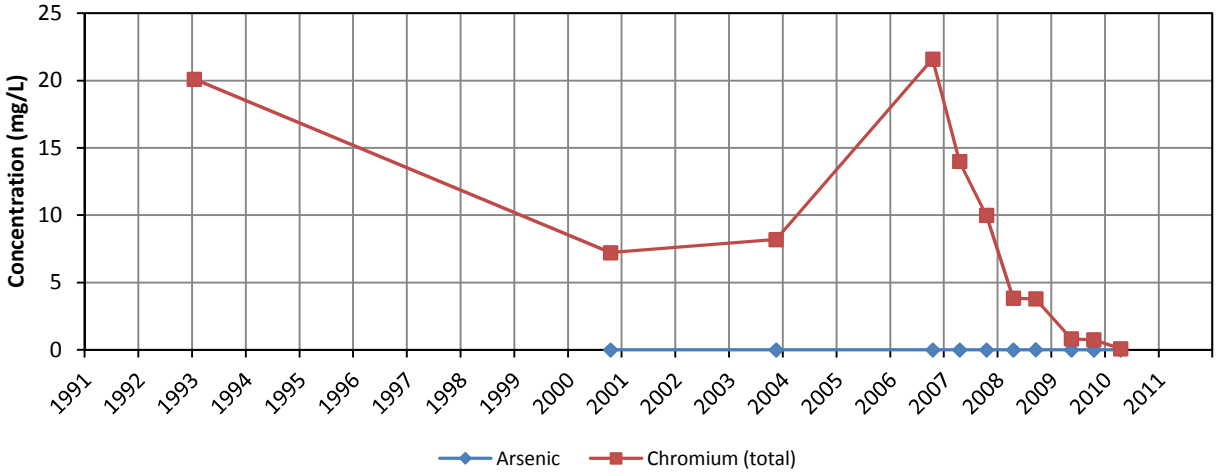
MW-54 Metals



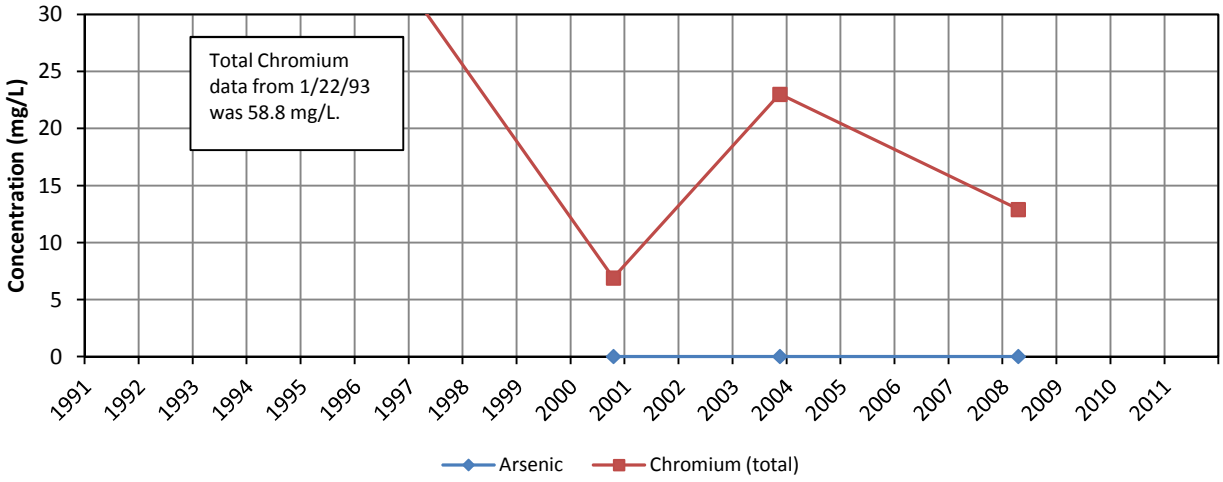
RT-1 Metals

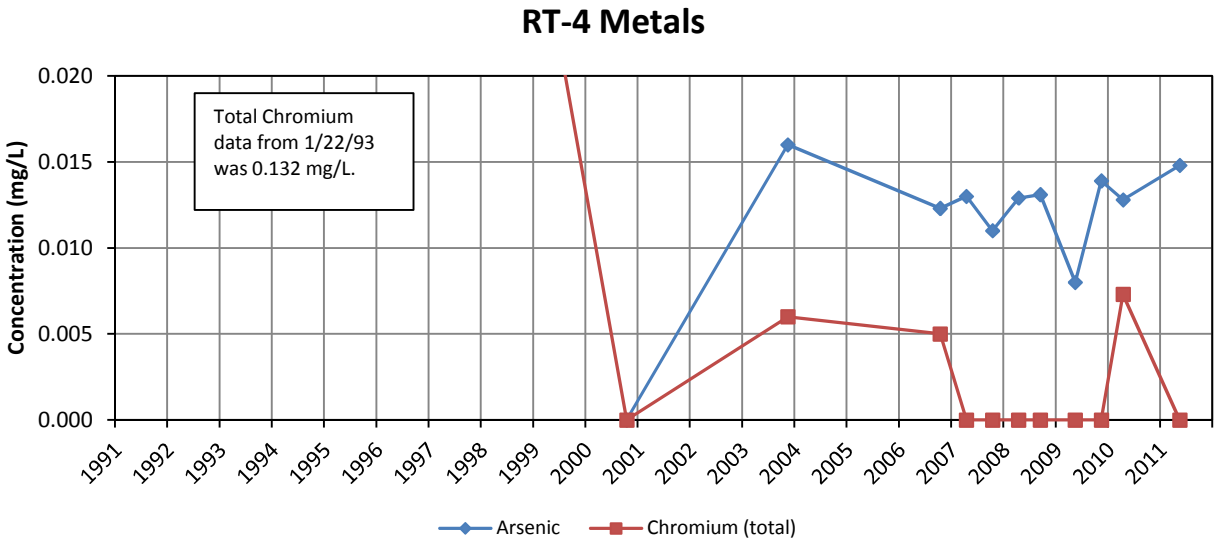


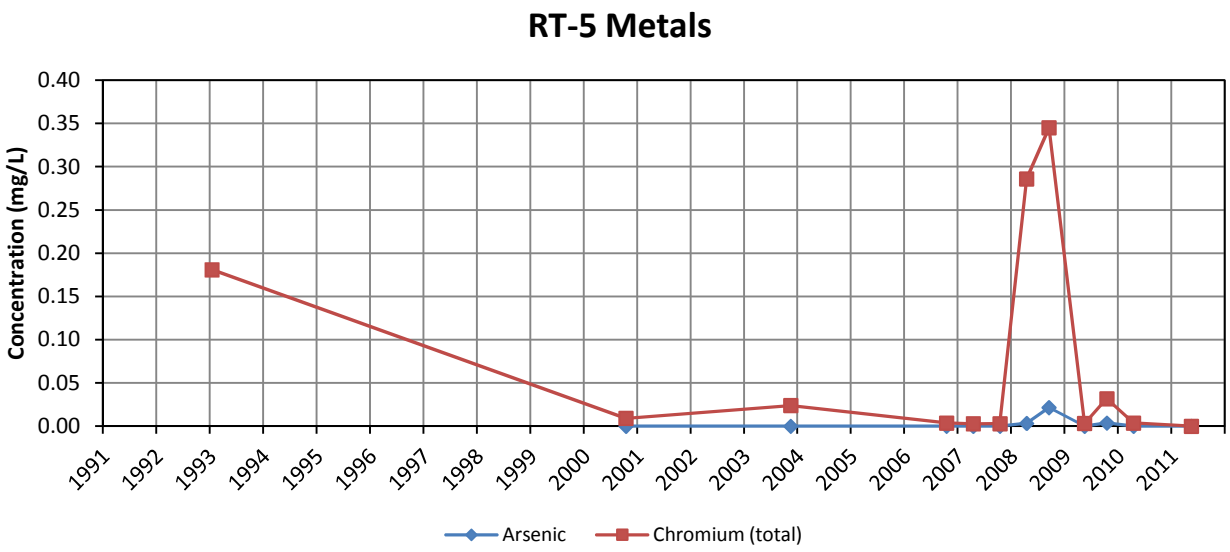
RT-2 Metals



RT-3 Metals

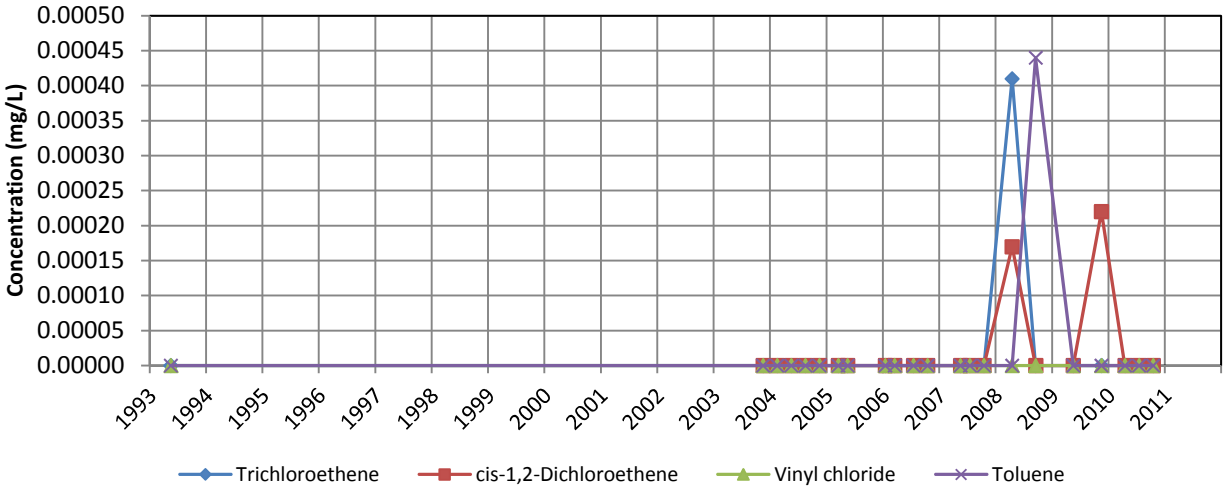



RT-4 Metals
Total Chromium data from 1/22/93 was 0.132 mg/L.
Concentration (mg/L)
0.020
0.015
0.010
0.005
0.000
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium (total)

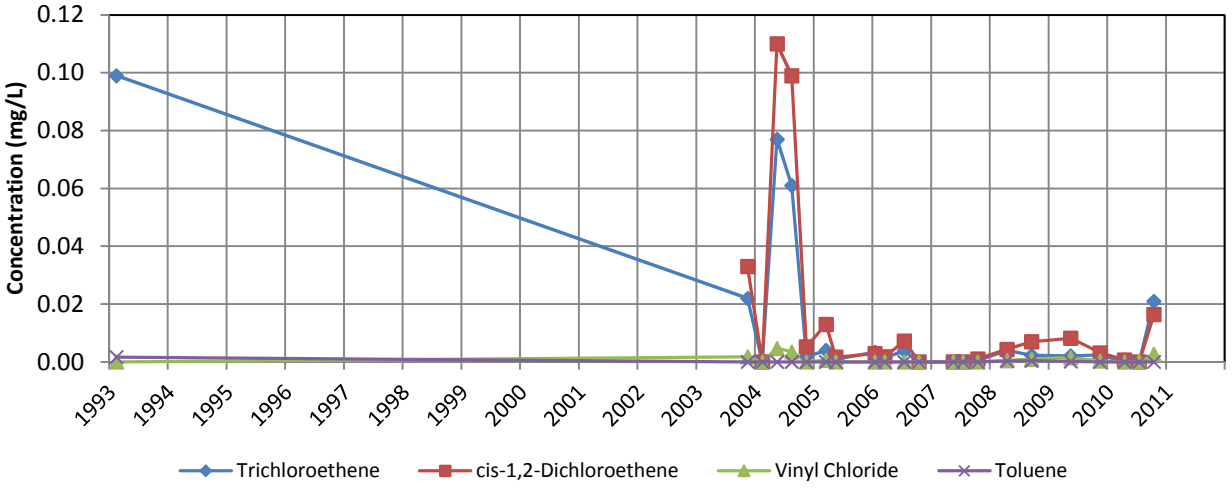

RT-5 Metals
Concentration (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium (total)

Surface Water VOC Plots

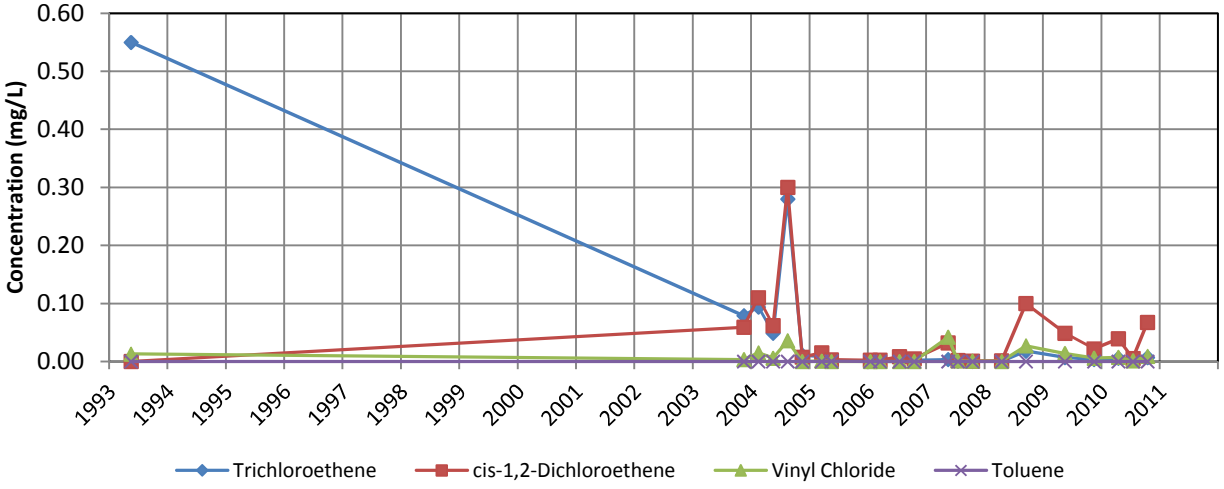
SW-22 VOCs

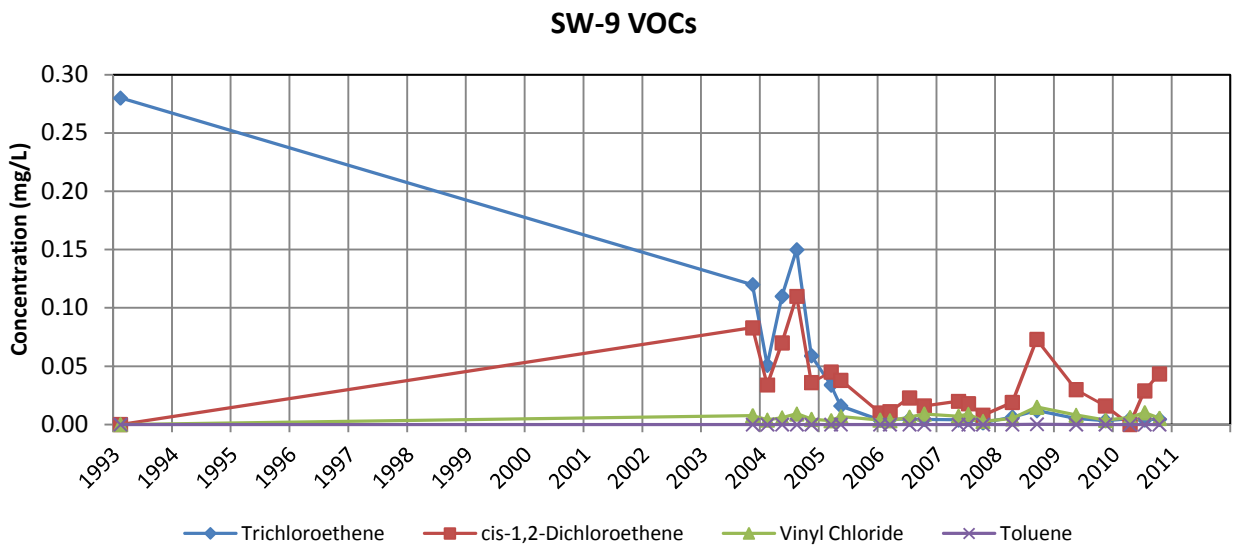


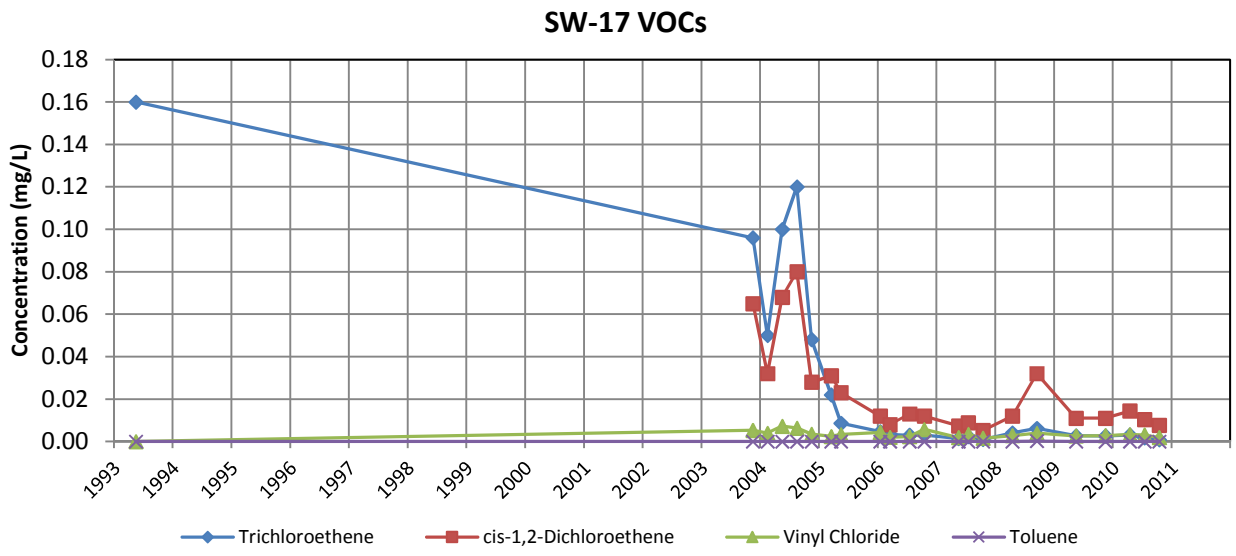
SW-12 VOCs



SW-19 VOCs

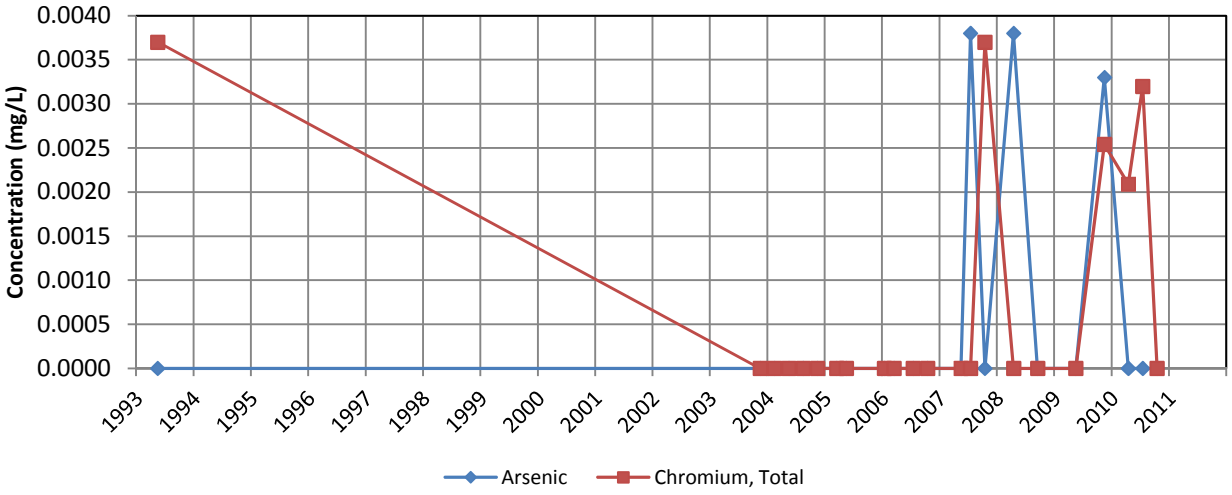



SW-9 VOCs
Concentration (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Trichloroethene
cis-1,2-Dichloroethene
Vinyl Chloride
Toluene

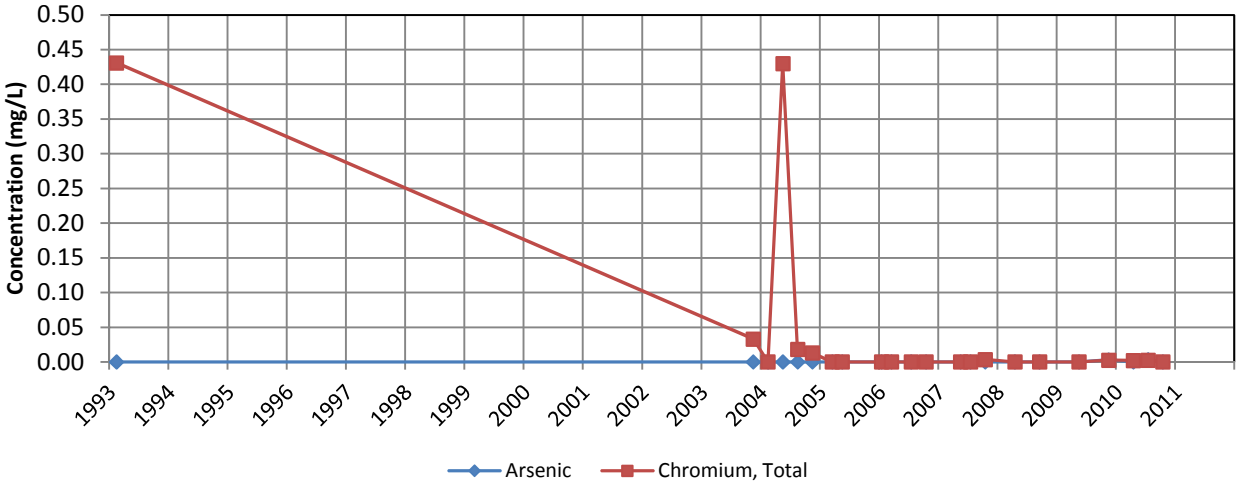

SW-17 VOCs
Concentration (mg/L)
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Trichloroethene
cis-1,2-Dichloroethene
Vinyl Chloride
Toluene

Surface Water Metal Plots

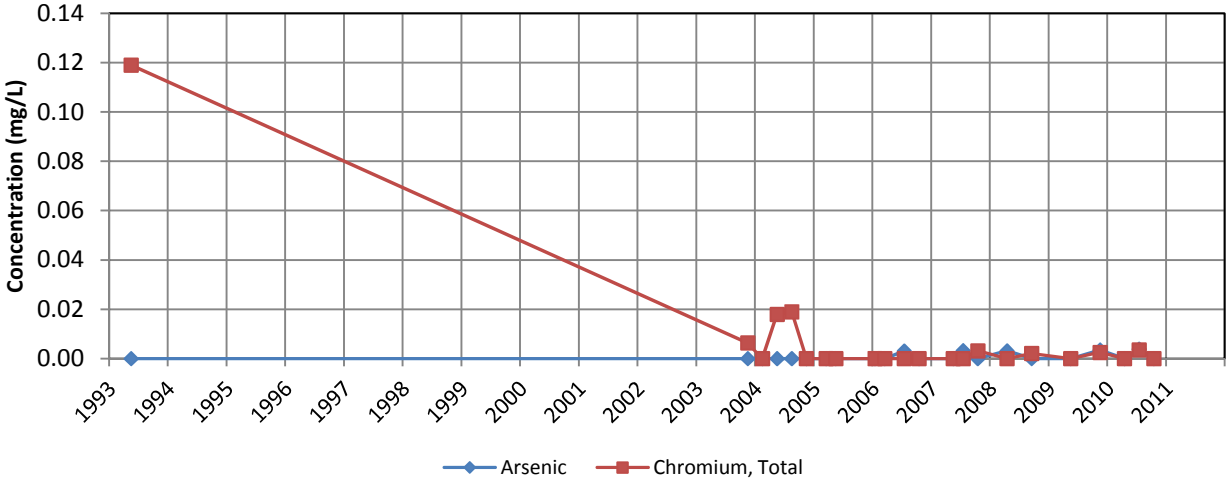
SW-22 Metals

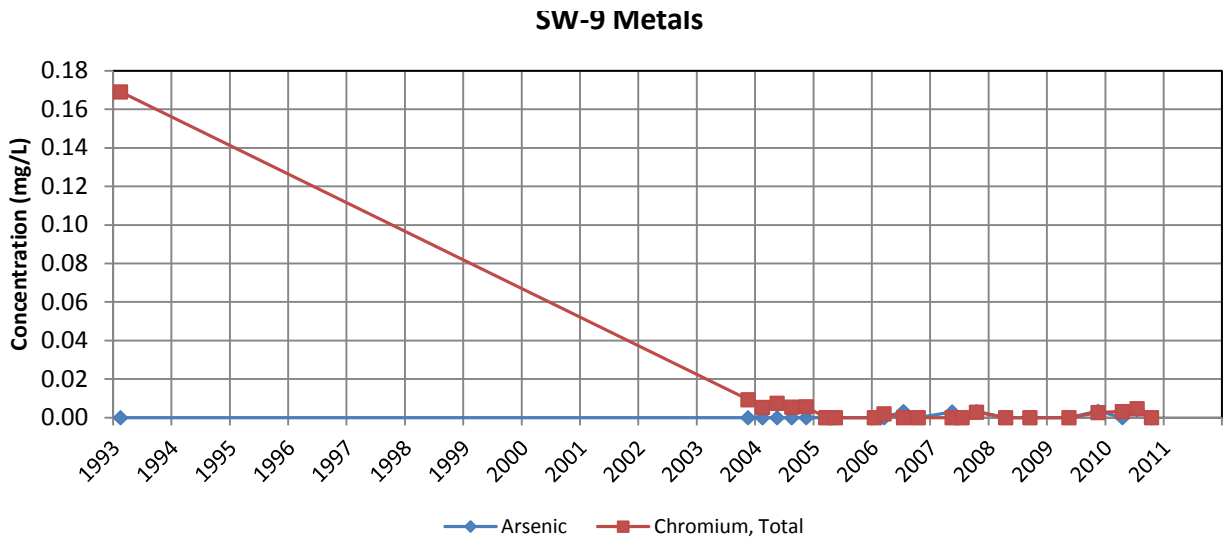


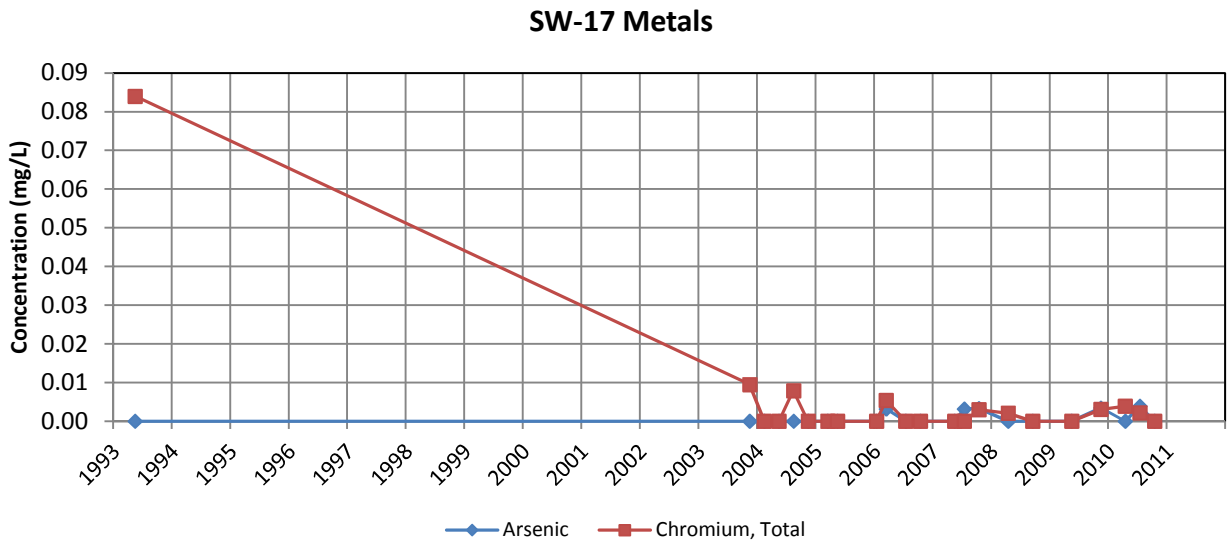
SW-12 Metals



SW-19 Metals




SW-9 Metals
Concentration (mg/L)
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium, Total


SW-17 Metals
Concentration (mg/L)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Arsenic
Chromium, Total