Site: RED PANTHER
Break: 1.1
Other: 4.5

Rec. for HRS Scoring
10-20-2008
Ralph O. Howard Jr.

SITE INSPECTION REPORT

RED PANTHER CHEMICAL COMPANY
CLARKSDALE, COAHOMA COUNTY, MISSISSIPPI

U.S. EPA ID No. MSD000272385

Revision 1

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
61 Forsyth Street
Atlanta, Georgia 30303

Prepared by:

T N & Associates, Inc.
1220 Kennestone Circle, Suite D
Marietta, Georgia 30066

Contract No.	:	EP-W-05-053
TDD No.	:	TNA-05-003-0004
Date Submitted	:	September 22, 2008
EPA Task Monitor	:	Ralph Howard
Telephone No.	:	404-562-8829
Prepared by	:	Stacy Kowalski
Telephone No.	:	678-355-5550

CONTENTS

APPENDICES

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) has tasked the T N & Associates, Inc., (TN&A) Superfund Technical Assessment and Response Team (START) to perform a Site Inspection (SI) under Contract Number (No.) EP-W-05-053, Technical Direction Document (TDD) No. TNA-05-003-0004, at the Red Panther Chemical Company site (Red Panther), EPA Identification (ID) No. MSD000272385, located in Clarksdale, Coahoma County, Mississippi.

The primary objective of a SI is to determine whether a site has the potential to be placed on the National Priorities List (NPL). The NPL identifies sites at which a release, or potential release, of hazardous substances poses a serious enough risk to the public health or the environment to warrant further investigation and possible remediation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Information gathered during the SI is used to generate a Hazard Ranking System (HRS) score. The HRS score is the primary criterion EPA uses to determine whether a site should be placed on the NPL. Generally, SIs are conducted at sites where additional sampling is necessary to fulfill HRS documentation requirements or determine whether a site may be removed from CERCLIS, the CERCLA Information System database. CERCLIS no longer includes sites that EPA has assessed and designated as "No Further Remedial Action Planned," or archive, sites. An archive designation means that, to the best of the EPA's knowledge, Superfund has completed its assessment and determined that no further steps will be taken to list this site on the NPL; however, an archive site is subject to future listing if subsequent information indicates this decision was inappropriate or otherwise incorrect. An archive decision does not necessarily mean that a given site is free of associated hazard; it means only that the location is not considered a potential NPL site based on available information.

Specifically, the objectives of a SI are to accomplish the following:

- Obtain, review, and summarize relevant file material
- Document current site conditions
- Collect samples to determine the nature and extent of contamination
- Collect samples to establish representative background levels
- Identify and summarize human and ecological target populations
- Evaluate groundwater, surface water, air migration, and soil exposure pathways
- Locate any missing HRS data.

This report documents findings of the SI fieldwork conducted during the week of October 8, 2007, at the Red Panther property. EPA Region 4 and the Mississippi Department of Environmental Quality (MDEQ) supplied the information reviewed for this SI.

2.0 SITE BACKGROUND

This section describes the site and its present and past operations, waste disposal practices, regulatory history, previous investigations, and potential source areas.

2.1 SITE DESCRIPTION

Red Panther is located at 550 Patton & Leflore Roads, Clarksdale, Coahoma County, Mississippi (see Figure 1, Appendix A) (Ref. 1). The geographic coordinates from the center of the property are 34° 11' 14" north latitude and 90° 33' 43" west longitude. The facility is bordered to the north by commercial property (Graeber Brothers), to the south by Sasse Street, to the east by Patton Street and Normandy Avenue/Leflore Street, and to the west by East Tallahatchie Street/Old Highway 49 South and the Illinois Central Railroad tracks (Refs. 1; 2; 3).

The former Red Panther facility comprises of approximately 6.5 acres (Ref. 3, p. 4). Former operation features included a septic tank and drainfield located on the north side of the property, and three hazardous waste above-ground storage tanks (ASTs) with a total capacity of 33,000 gallons formerly located on the south side of the property. A small wastewater settling basin was located on the east central side of the property (Ref. 3). Several structures remain on the property and are used as storage by Coahoma, Inc. as a storage facility for seeds, cotton, and farm chemicals (see Figure 2, Appendix A).

2.2 GEOLOGY AND HYDROGEOLOGY

Clarksdale is located in the northwestern portion of the State of Mississippi within the Mississippi Delta physiographic province (Ref. 4, pp. 4, 10). The stratigraphic units in this part of the state include, in descending order; the Mississippi River alluvium, Cook Mountain Formation, Sparta Sand, Zilpha Clay and Winona Sand, Tallahatta Formation, and the Wilcox Group (Ref. 5, p. 11).

The alluvium directly underlies the property, dips gently to the south, and is exposed at the surface over its entire area of occurrence. The alluvium ranges from less than 50 feet to more than 200 feet thick, with

an average thickness of 140 feet. The alluvium generally consists of three layers: a discontinuous silty clay layer, a middle sand layer, and a lower gravel layer.

The Cook Mountain underlies the alluvium and is composed of clay and shale. In some portions of northwestern Mississippi, the Cook Mountain confines the underlying Sparta Aquifer (Ref. 3, p. 6). However, geophysical logs of wells near the site suggest that Cook Mountain is approaching a stratigraphic pinch-out in the Clarksdale area.

The Sparta Sand underlies the Cook Mountain and is composed of rounded, well-sorted quartz grains in two or three thick beds separated by beds of clay (Ref. 5, p. 31). The thickness of the Sparta Sand ranges from 420 to 480 feet.

The Zilpha and Winona Formation underlies the Sparta Sand and occurs at approximately 655 feet below land surface (bls) (Ref. 3, p. 6). The Zilpha overlies the Winona and consists of dark-brown clay. The Winona consists of glauconitic fossiliferous sands and clays.

The Tallahatta Formation is hydraulically connected to the overlying Winona and contains several thick to very thin sand beds separated by clay (Ref. 4, pp. 10, 45). Thickness ranges from 50 to 400 feet, with an average thickness of slightly more than 200 feet. The formation dips to the west and southwest.

The Meridian Sand underlies the Tallahatta and is a massive unit consisting of fine-to-coarse micaceous sand that dips west to southwest. The average thickness is approximately 160 feet (Ref. 4, pp. 43, 45).

The Mississippi River Valley Alluvial aquifer is a water table aquifer located along the western boundary of the state and underlies the property (Ref. 5, p. 11). Generally, recharge is from the direct infiltration of rainfall into the aquifer, and water moves to the south and towards streams in the area. Some water moves into the underlying Sparta and Cockfield aquifers, which subcrop below the alluvium in the area. The Cook Mountain Formation acts as a confining unit throughout most of the state; however, it pinches out in the vicinity of the property indicating that the Alluvial and underlying Sparta aquifers are interconnected. Regionally, water in the Sparta flows from east to west (Ref. 4, p. 47). Water bearing sands within the Sparta, many 100 feet or more in thickness, are separated by varying thicknesses of clay. The Zilpha and Winona confining layer, consisting primarily of clay, retards the movement of water from the overlying Sparta Sand into the underlying Meridian-Upper Wilcox aquifer.

The Meridian-Upper Wilcox aquifer consists of the Meridian Sand of the Tallahatta Formation and the uppermost sand beds of the Wilcox Group (Refs. 5, p. 41; 6). These units are regarded as one aquifer because they are hydraulically connected. The Upper Wilcox consists of sandy clay, and the regional movement of water in the aquifer is westward.

The Lower Wilcox is the deepest aquifer underlying the region and consists of a thick sand unit containing over 60 percent sand (Ref. 3, p. 7). The aquifer dips to the southwest in the southern part of the region. Multiple clay beds in the overlying part of the Wilcox hydraulically separate the Lower Wilcox aquifer from overlying aquifers. The Lower Wilcox aquifer occurs approximately 1,900 feet bls and extends to a depth of approximately 2,100 feet in the vicinity of the property.

2.3 SITE OPERATIONS AND REGULATORY HISTORY

Red Panther operated as a pesticide formulation plant between 1949 and 1978 producing liquid and dry herbicides, insecticides, and fungicides (Ref. 2). Chemicals used in the formulation included toxaphene, methyl parathion, chloropyrifos, 2,4-D, malathion, carbaryl, diazinon, methoxychlor, disodium methanearsonate, monosodium acid methanearsonate, chlorothalonil, and parathion (Ref. 7). Contamination on the property is believed to have originated from numerous spills during loading and unloading operations, from leaking transport piping between the process and tank farm areas, contaminated wastewater releases, and from spills and leaking underground piping in the tank farm area (Ref. 8, p. 3).

Previous owners of the facility include Coahoma Chemical Company, Riverside Chemical Company, and MFC Services (Ref. 3). The property is currently used by Coahoma, Inc. as a storage facility for seeds, cotton, and farm chemicals (Ref. 2).

In November 1985, a fire erupted at one of the Red Panther warehouses (Ref. 3, p. 4). Contaminated runoff resulting from the fire-fighting efforts caused a fish kill in the nearby Sunflower River. The contaminant was determined to be Lorox, a slightly toxic herbicide. A large volume of contaminated water was contained on the property and later shipped to a commercial hazardous waste disposal facility. During cleanup of the fire, approximately 382 old fiber drums were discovered in the crawlspace below the warehouse. Of those drums, approximately 287 were empty. The empty drums were crushed and sent to the local municipal landfill. Ninety-five drums contained trace residues of technical grade dieldrin and

were disposed of at a commercial hazardous waste facility (Ref. 3, p. 4). A new warehouse was built over this area in 1986 (Ref. 9).

A query for MSD000272385 in the EPA Envirofacts database listed a site discovery date of November 1, 1979 (Ref. 10). In 1980, Red Panther filed for a Resource Conservation and Recovery Act (RCRA) hazardous waste management activity notification and Part A application for the storage of wastewater and used solvents on site (Refs. 2; 3, p. 3). Wastewater containing pesticide and solvent residues were generated from the cleaning of equipment at the facility. It is not clear whether a storage permit was granted at this time.

In November 1984, the Mississippi Bureau of Pollution Control (MBPC) granted the facility a RCRA Part B permit to store wastewater and spent solvents at the site (Ref. 3). Prior to obtaining the RCRA permit, wastewater and spent solvents were discharged directly to an off-site ditch or into an underground leaching field on the property (Ref. 3). According to Envirofacts, a Preliminary Assessment (PA) was completed on June 1, 1984 (Ref. 10).

In November 1986, the Red Panther storage permit was terminated because Red Panther lost its liability insurance coverage that is required for long-term storage of hazardous wastes (Ref. 3). At that time, Red Panther reverted to the status of a hazardous waste generator with short-term (less than 90 days) storage only (Ref. 3).

According to Envirofacts, a Site Inspection (SI) was completed on January 31, 1991. The site was listed for archive on January 31, 1992; however, an Expanded Site Inspection (ESI) and Integrated Assessment were listed as completed on February 1, 2000 (Ref. 10).

An Administrative Order on Consent (AOC) between EPA and the Potentially Responsible Party (PRP) was signed on September 4, 2001 (Refs. 7; 10). EPA subsequently submitted the Action Memorandum documenting approval of the proposed removal action (Ref. 8).

Administrative records were compiled on November 6, 2003. The PRP commenced the removal action on November 11, 2002 and had completed the activities by July 29, 2005 (Ref. 10). On December 22, 2003, EPA announced the availability of the Red Panther Administrative Record for public review (Ref. 11). The Administrative Record includes documents that form the basis for selection of the removal action. The site was removed from the archive list on November 7, 2005 (Ref. 10).

2.4 PREVIOUS RELEASES AND INVESTIGATIONS

In 1984, MBPC conducted a sampling inspection at the site (Refs. 2; 3, pp. 3, 5). Environmental samples were collected around the property to determine and characterize any hazardous substances present. Two composite soil samples were collected from the off-site ditch along Normandy Street and Patton Street (Ref. 3, p. 5). One water sample was collected from where wastewater leaves the property and discharges into the off-site ditch. One subsurface composite soil sample was collected around the septic tank and drainage field. All samples were analyzed for pesticides and total arsenic. Results indicated elevated levels of several pesticides and arsenic in the soil and sediment samples (Ref. 3, p. 5). Additionally, a Preliminary Assessment (PA) was conducted in June 1984, and follow-up sampling was performed in August 1984 (Ref. 3).

In November 1985, due to the warehouse fire, a sample of contaminated runoff resulting from the fire-fighting effort was collected and analyzed for pesticides. No contaminants were detected (Ref. 3).

On February 22, 1990, MBPC submitted the Preliminary Assessment Reassessment (PAR) to EPA Region 4 (Ref. 3).

On January 31, 1991, MDEQ Office of Pollution Control (MSOPC) submitted a Screening Site Inspection (SSI) Report (Ref. 9). The investigation was conducted November 12 through 13, 1990 (Ref. 12). A total of nine samples were collected during the SSI including one surface soil, three sediment samples, two subsurface soil samples, and three groundwater samples (Ref. 9, p. 10). Background samples were not collected for every matrix; therefore, appropriate comparison could not be established. Samples were analyzed for all compounds listed in the EPA Target Compound List (TCL). According to the 1991 SSI, sediment and soil (surface and subsurface) samples contained high levels of pesticides, metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) (Ref. 9, p. 12). Groundwater samples contained high levels of metals only. Based on these results, MSOPC recommended further investigation on a medium-priority basis (Ref. 9, p. 12).

On January 30, 1992, MDEQ submitted a Site Investigation Prioritization (SIP) to EPA Region 4 (Ref. 13). The SIP recommended that no further remedial action be planned (NFRAP) for Red Panther, based on the 1991 SSI report. The NFRAP recommendation was approved; however, a low waste quantity was assumed due to lack of data (Ref. 13).

In 1999, EPA tasked Tetra Tech EM, Inc. START to conduct surface and subsurface soil sampling of the drainage ditches to the east of the property, the former on-site leaching field and septic tank on the north side of the property, and the rail spur in front of the loading dock that runs along the west side of the property (Ref. 14). Samples were analyzed for RCRA metals and pesticides. The results from the sampling event indicated that the site was contaminated with arsenic, organochlorinated pesticides, and the degradation by-products including, but not limited to, aldrin, chlordane, dieldrin, 4,4'-DDT, endrin, endosulfan II, and toxaphene. The analytical results also revealed a wide concentration range for lead; however, lead concentrations were below the applicable limit for lead in residential soil (Ref. 14, p. 11).

In September 2001, the AOC between the PRP and EPA Region 4 was finalized (Ref. 7). The AOC identified four constituents of concern (COCs) for surface soil criteria and three COCs for subsurface soil criteria. The surface COCs were identified as arsenic, toxaphene, dieldrin, and total chlorinated pesticides (Ref. 7, p. 6). The subsurface COCs were identified as arsenic, toxaphene, and dieldrin (Ref. 7, p. 7).

The PRP retained NewFields and URS Corporation (URS) to perform the work required as part of the AOC. The AOC required the work to be performed in two phases. Phase I consisted of the following components (Refs. 15, 16):

- Preparation of a Phase I Work Plan,
- Excavation of surface soils from drainage ditches between the Red Panther property boundaries and Route 49, and the disposal or temporary stockpiling of the excavated material,
- Characterization of on-site soils and the remaining ditch soils,
- Design of Phase II removal activities, and
- Preparation of a Phase II Work Plan detailing additional removal tasks necessary to complete the requirements of the AOC.

On March 18, 2003, URS submitted the Phase I Removal Action Report and the Phase I Soil Characterization Report (Refs. 15, 17). Based on the results, URS recommended addressing the soils exceeding performance standards in the Phase II Work Plan, and addressing disposal options for the stockpiled soils in Ditch 1 in the Phase II Work Plan (Ref. 15, p. 10). Both reports were approved by EPA in April 2003 (Ref. 16, p. 2). Details of the Phase I activities are summarized in Section 2.6.1 of this report.

Phase II of the removal action consisted of on-site soil removal activities (Ref. 16). On October 14, 2005, URS and Newfields submitted the Phase II Soil Removal Report for Red Panther (Ref. 16). The PRP Group requested a "No Further Action" and termination of the order based on the successful completion of the AOC requirements. The AOC requirements were completed by implementing the Phase I off-site ditch characterization and removal in 2002, the Phase I characterization of the on-site soils in 2002 and 2003, and the Phase II soil removal in 2005 (Ref. 16). Details of the Phase II activities are summarized in Section 2.6.2 of this report.

All PRP removal activities were overseen and documented by Weston Solutions, Inc. (Weston) START-2 at the request of EPA. After completion of the removal activities, EPA tasked Weston to conduct an environmental assessment of the nearby 18th Street Neighborhood located just west of Red Panther. On December 22, 2005, Weston submitted a Final Removal Assessment Letter Report for the 18th Street Neighborhood site (Ref. 18). EPA currently plans to utilize the data generated from the 18th Street investigation and Red Panther to conduct an analysis of potential long term threat to human health and the environment (Ref. 18). Details of the 18th Street Neighborhood investigation are discussed in Section 2.6.3 of this report.

2.4.1 Phase I Activities

On April 1, 2002, EPA approved the Phase I Work Plan submitted by the PRP (Ref. 19). Modifications to the Phase I Work Plan were submitted to EPA on August 24, 2002 (Ref. 20). The revised Phase I Work Plan was approved on September 4, 2002 (Ref. 16, p. 6). On November 12, 2002, Weston START-2 mobilized to perform oversight of contractor and subcontractor activities at Red Panther (Ref. 2). URS was the primary contractor for the PRP. URS retained HEPACO Incorporated (HEPACO) to conduct the planned site work (Ref. 15).

Contaminated soils in the drainage ditches on the east side of the site were removed (Ref. 15, p. 5). The soils from these ditches were analyzed for VOCs, Toxicity Characteristic Leachate Procedure (TCLP) SVOCs, TCLP metals, and TCLP pesticides for waste profiling. The 0 to 2 foot level of the soil was excavated from the ditches and was profiled as non-hazardous waste (Ref. 15, p. 5). These soils were loaded directly into trucks for disposal in the Waste Management, Subtitle D Landfill, located in Robinson, Mississippi. The soil from the 1 to 2 foot level from one of the ditches was profiled as hazardous waste and was stockpiled inside a concrete berm on site to be removed during the Phase II activities, since these soils exceeded TCLP criteria (Ref. 15, p. 6). During these activities, approximately

900 tons of soil was removed from four of the six on-site ditches. Due to high levels of arsenic found in two of the drainage ditches, URS recommended that a chain link security fence be installed around the ditches to prevent public access, and the soil removal be addressed in the Phase II Work Plan (Ref. 15, p. 2).

During the Phase I removal activity, URS retained W.L. Burle Engineers, Inc., in Greenville, Mississippi, to conduct soil characterization sampling (Ref. 19, p. 4). Area B, located on the northern side of the site, was segregated into 20 grids for surface and subsurface soil sampling. A five-point composite surface sample was collected from each grid (Ref. 17, p. 5). Single point aliquots from each composite sample were also collected in the event that the analysis from the composite sample indicated that further analysis was required. Two borings were completed in each grid using direct push technology (DPT). Each of these soil borings was sampled at the 0 to 2 foot, 2 to 6 foot, and 6 to 10 foot bls intervals. These levels were used in determining the vertical extent of the contamination (Ref. 17, p. 5). The surface soil analytical results indicated the presence of arsenic (Ref. 17, p. 6). The highest concentrations of arsenic occurred in the grids located along the retaining wall at the northern property boundary. Generally, Area B surface soils were not impacted by chlorinated pesticides above the performance standards. The subsurface analytical results were similar to the surface soil composite data. The elevated concentrations of arsenic appeared to decrease with increasing depth (Ref. 17, p. 6).

Area C consisted of the railroad spur on the western side of the site (Ref. 17, p. 7). There were five sets of DPT borings completed along the railroad spur. Each pair consisted of one DPT boring on the north side and one on the south side of the track. Each of these borings was sampled at the 0 to 2 foot, 2 to 6 foot, and 6 to 10 foot bls intervals. These levels were used in determining the vertical extent of the contamination. The analytical data indicated that the soils along the railroad spur adjacent to the tank farm contained arsenic (Ref. 17, p. 8). Reportedly, arsenic dry products were off-loaded from railroad cars in this area. Total chlorinated pesticides, dieldrin, and toxaphene were detected further to the south along the railroad spur at the location of DPT-CP3. Reportedly, the railcar off-loading of liquid pesticides occurred in this area of the spur. The area around CP3 also received storm water drainage from the roofs of several buildings and along the railroad tracks (Ref. 17, p. 8).

Area D was located on the southern side of the site (Ref. 17, p. 8). Area D was segregated into 11 grids. A five-point composite surface sample was collected from each grid. Single aliquots from each composite sample were collected in the event that the analysis from the composite sample indicated further analysis was required. Two DPT boring were completed in each grid. Each of these soil borings

was sampled at the 0 to 2 foot, 2 to 6 foot, and 6 to 10 foot bls intervals. These levels were used in determining the vertical extent of the contamination. The surface soil analytical results indicated the surface soils contained chlorinated pesticides. The arsenic concentrations detected in the surface soils in Area D were significantly less than those detected in Area B and Area C. The DPT soil sample analytical data indicated that the pesticide concentrations occurred mainly in the surficial soils (0 to 2 foot) and decreased significantly in concentration in the 2 to 6 foot and 6 to 10 foot intervals (Ref. 17, p. 8).

2.4.2 Phase II Activities

Phase II of the AOC consisted of the removal of soils impacted above the performance standards. Phase II was divided into two stages consisting of an Interim Removal and the Removal Action (Refs. 2, 16). In October 2004, URS, Newfields, and HEPACO mobilized to Red Panther to begin the Interim Removal, and to prepare the site for the Phase II Soil Removal. The Interim Removal addressed the following items:

- The contents of eight ASTs ranging in size from 200 gallons (trailer mounted tank) up to 15,000 gallons in the Area B tank farm were cleaned out, the contents disposed off site, and the tanks cut up and the metal recycled (32.64 tons). The tanks contained various amounts of solids and/or liquids impacted with arsenic and/or pesticides. The contents of the tanks were shipped to Waste Management's treatment facility in Emelle, Alabama.

- The rail line (approximately 700 feet) and portions of the loading dock (approximately 117 tons) in Area C were removed so the soils impacted above the performance standards could be removed during the Phase II Soil Removal.

- The non-hazardous contents of a silo in Area D were removed and the silo dismantled for scrap metal.

- Ditch 1 soils (approximately 60 tons) that were stockpiled on site during the November 2002 off-site ditch removal were shipped off site to the Waste Management Sulphur, Louisiana Subtitle C facility for bioremediation. The soils were classified as a characteristic hazardous waste for toxaphene and endrin.

In March 2005, the Phase II Soil Removal was initiated (Ref. 16). The following is a summary of the items addressed during the removal:

- A total of 1,180 tons of non-hazardous concrete was demolished during the removal and shipped off site to the Waste Management Tunica Subtitle D landfill located in Robinson, Mississippi. The hazardous concrete (32 tons) was disposed of as hazardous debris at the Waste Management facility in Emelle, Alabama.

- In Area B, a total of 5,341.27 tons of arsenic impacted soils were removed and shipped to the Emelle, Alabama facility for stabilization. Another 200 tons of pesticide impacted soils were excavated from a portion of Area B and stockpiled in Area D with the hazardous pesticide soils.

Approximately 4,800 tons of non-hazardous soils of the site wide total 14,396.70 tons were excavated from Area B and shipped off site to the Tunica Subtitle D landfill. All surface soils (0 to 2 feet) in Area B were excavated and replaced with clean backfill. The final subsurface confirmation sample results for Area B were 248.5 milligrams per kilogram (mg/kg) of arsenic, 5.4 mg/kg of toxaphene, and 0.6 mg/kg of dieldrin, which meet the performance standards outlined in the AOC.

- In Area C, a total of 1,903.73 tons of hazardous pesticide impacted soils were removed and shipped to the Onyx facility in Port Arthur, Texas for incineration. In addition to the hazardous pesticide soils, approximately 2,500 tons of non-hazardous soils of the site wide total of 14,396.70 were excavated from Area C and shipped off site to the Tunica Subtitle D landfill. All surface soils in Area C were excavated and replaced with clean backfill. The final subsurface confirmation sample results for Area C were 131.7 mg/kg of arsenic, 102.8 mg/kg of toxaphene, and 7.1 mg/kg of dieldrin, which meets the performance standards.

- In Area D, an estimated 6,550 tons of non-hazardous soils of the site wide 14,396.70 tons were excavated and shipped to Tunica Subtitle D landfill. All surface soils in Area D were excavated and replaced with clean backfill. The final subsurface confirmation sample results were 11.7 mg/kg of arsenic, 92.1 mg/kg of toxaphene, and 8.4 mg/kg of dieldrin, which meets the performance standards.

- The off-site ditches (Area A) were re-sampled on June 20 and 21, 2005 to determine if the soils had been re-impacted above the surface soil performance standards since the 2002 off-site ditch removal. Based on the analytical results, it was determined the surface soils (0 to 2 feet) required removal from Ditches 1, 3, and 4. In Ditch 1, the 65-foot segment that required additional excavation form the 2002 removal was excavated to a depth of 6 feet bls. Approximately 550 tons of non-hazardous soils were excavated from the ditches and transported off site for disposal at the Tunica D Subtitle D landfill. The final subsurface confirmation sample results were 14.2 mg/kg of arsenic, 6.4 mg/kg of toxaphene, 0.8 mg/kg of dieldrin, and 4.7 mg/kg of total chlorinated pesticides, which meets the performance standards.

- During the removal, approximately 160,000 gallons of storm water was pumped from areas being excavated or backfilled during the removal. The storm water was contained, treated, sampled, and discharged to the City of Clarksdale Publicly Owned Treatment Works (POTW). The water was treated using a treatment system consisting of a pretreatment frac tank, micron filtration, followed by liquid phased carbon absorption. A permit for the discharge was not required under Mississippi regulations if the amount discharged on a daily basis did not exceed 20,000 gallons. All discharges met the City of Clarksdale discharge requirements.

- Dust control measures were implemented during the removal activities on an as needed basis and consisted of wetting the haul routes with a water truck equipped with a spray bar. All the air monitoring data indicated the respirable dust action levels of 0.25 milligrams per cubic meter were not exceeded during the removal activities.

- Following the soil excavation activities, the site was restored to the pre-removal conditions. The site was graded and covered with gravel and secured by a new 6-foot chain link security fence.

2.4.3 18th Street Neighborhood

The 18th Street Neighborhood is a residential area located to the west of Red Panther (Ref. 1). The site consists of single family dwellings on approximately 0.25 acre lots. The area of interest included properties on 14th, 15th, 16th, 17th, 18th, 19th, and West Tallahatchie Streets (Ref. 18).

On August 9, 2005, Weston began collecting samples for EPA at the 18th Street Neighborhood (Ref. 18, p. 4). A total of 31 composite samples including a background (SN-01-SS) were collected from residential yards. The background sample from the B.F. McLaurin Park was collected as a reference point to determine what direct impact Red Panther might have had on the soils in the neighborhood. On August 10, 2005, four active municipal groundwater supply wells were sampled (Ref. 18, p. 5). Of these four wells, two were shallow wells (approximately 600 feet deep) and two were deep wells (approximately 1,000 feet deep). Weston was also tasked with collecting three sediment samples from the Sunflower River because a storm water drain runs directly from Red Panther, under the 18th Street Neighborhood, to the Sunflower River. However, after investigating the river bank for access points to collect the samples, EPA determined that there were no suitable places to safely obtain the sediment samples (Ref. 18).

All samples were analyzed for pesticides, aluminum, arsenic, and iron (Ref. 18). Of the 30 residences sampled, 26 soil samples were elevated above background concentrations for pesticides. Dieldrin was elevated above the EPA Preliminary Remediation Goal (PRG) value of 0.03 mg/kg in 11 of the samples. Toxaphene was above the EPA PRG value of 0.44 mg/kg in four samples. No pesticides were detected in the groundwater samples. No metals were detected at elevated concentrations in any samples (Ref. 18).

Weston concluded that the standard quantization limit (SQL) for pesticides in the data analysis was an extremely low value and that pesticides are typically present at some levels in agricultural areas such as Coahoma County (Ref. 18, p. 6).

2.5 POTENTIAL SOURCE AREAS

The sources previously identified and documented at Red Panther include contaminated soils and on-site tank contents (Refs. 15, 16, 17). Red Panther is approximately 6.5 acres in size. Numerous buildings and other structures occupy the majority of the site; therefore, it is assumed that no more than half the site

(3.25 acres) is available as a contaminated soil source. Soil sampling conducted in the Phase I and Phase II investigations also support this assumption. In addition, eight ASTs were present on site. The contents of these tanks, as documented in manifests, consisted of 150,000 pounds of arsenic-contaminated sludge in Tanks 1, 2, 3, 5, 6, and 7 (Ref. 16). Tanks 4 and 8 consisted of 83,000 pounds of arsenic and pesticide-contaminated sludge. Therefore, the total estimated amount of arsenic and pesticide-contaminated tank sludge is 233,000 pounds.

Source contaminants include, but are not limited to, the following: arsenic, dieldrin, toxaphene, endrin, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, heptachlor, heptachlor epoxide, alpha-chlordane, gamma-chlordane, gamma-BHC (lindane), methoxychlor, and endosulfan II (Refs. 9, 15, 16, 17). These contaminants were documented to exist in association with historical operations on site. Further, pesticides and arsenic were detected in samples collected on site.

The removal activities conducted at the property do not constitute a qualified removal because the removal activities were not conducted prior to the cutoff date (the first SI) applicable to the site (Ref. 21). The Phase I and Phase II removal actions were conducted after the 1990 SI (Refs. 9, 15, 16). Therefore, all sources existing after the SI were considered "eligible" for purposes of this HRS Reassessment Report.

No source currently exists at Red Panther; however, pesticide contamination is documented to exist in the nearby 18th Street Neighborhood, a migration pathway (Ref. 18). Municipal groundwater samples were not detected at elevated concentrations compared to background.

3.0 SI ACTIVITIES

This section outlines the sampling procedures used at Red Panther during the field sampling event conducted by TN&A the week of October 8, 2007 (see Appendices D and E). Individual subsections address the sampling investigation and rationales for specific SI activities. The SI was conducted in accordance with the EPA-approved *Site Sampling Plan – Revision 0*, dated August 10, 2007.

3.1 SAMPLE COLLECTION METHODOLOGY AND PROCEDURES

Due to a lack of updated information related to the presence or absence of site-attributable contaminants in the groundwater beneath and surrounding the site, START personnel collected water samples from nine temporary monitoring wells, one on-site permanent monitoring well, and four municipal wells during the week of October 8, 2007 (see Appendix D). Sampling locations are illustrated in Figures 3 and 4 located in Appendix A and summarized in Tables 1 and 2 located in Appendix B. All sample collection activities and procedures were performed in accordance with the November 2001 EPA Region 4 *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (EISOPQAM). As listed in Table 3, additional quality assurance/quality control (QA/QC) samples such as blanks, duplicates, and matrix spike/matrix spike duplicate samples were collected as required by the EISOPQAM. Table 4 located in Appendix B illustrates sample analytical methodology, containers, and preservatives.

Miller Drilling Company (Miller) installed nine on-site temporary monitoring wells using a Geoprobe® equipped with DPT. All temporary monitoring wells were 1 inch in diameter and were installed between 25 feet from top of casing (TOC) to 45 feet from TOC, depending on the depth to water. Wells were developed and sampled with either a peristaltic pump or micro bladder pump and Teflon®-lined tubing. Eight temporary monitoring wells were installed around the perimeter of the property; one temporary monitoring well was installed in the center of the property (see Figure 4). One well, RP-TW-02, was installed in the northernmost portion of the property and was determined in the field to be the "control" location based on depth to water measurements. The control well was used for comparison purposes to the on-site temporary monitoring wells for HRS-elevated determinations. Using standard purging techniques, the wells were purged until water quality parameters (temperature, pH, conductivity, turbidity) stabilized or a minimum of three well volumes. Continuous groundwater quality parameters were obtained using a Horiba U-22 and were recorded in the field logbooks as presented in Appendix D. Temporary monitoring well samples were analyzed for VOCs, SVOCs, metals plus mercury, cyanide, and pesticides. Due to insufficient water volume, SVOCs and cyanide were not analyzed on samples RP-TW-01 and RP-TW-03. SVOCs were not analyzed on samples RP-TW-05 and RP-TW-07.

One on-site permanent monitoring well (RP-OMW-01) was sampled using standard purging techniques with a peristaltic pump and dedicated Teflon®-lined tubing. The well was pumped until water quality parameters (temperature, pH, conductivity, turbidity) stabilized. Continuous groundwater quality

parameters were obtained using a Horiba U-22 and were recorded in the logbook (see Appendix D). Samples for VOCs, SVOCs, metals plus mercury, cyanide, and pesticides analyses were collected for the permanent monitoring well. A duplicate sample (RP-OMW-02) was collected from the permanent monitoring well, as required by the EPA EISOPQAM.

START collected groundwater samples from four municipal wells located within 4 miles of the property (see Figure 3). The two Clarksdale Utilities municipal wells of potential concern are located approximately 0.25 mile from the site. One well, located to the southwest of Red Panther, is screened in the Meridian-Upper Wilcox Aquifer (RP-MW-02). The background well sampled for comparison to this well is located in the Town of Lyon, which is also screened in the Meridian-Upper Wilcox Aquifer (RP-MW-01). The second well of potential concern is located immediately south of the site and is screened in the Sparta Aquifer (RP-MW-04). The background well sampled for comparison to this well is located approximately 1.5 miles northeast of the site and is also screened in the Sparta Aquifer (RP-MW-03). A duplicate sample (RP-MW-05) was collected from RP-MW-02, as required by the EPA EISOPQAM. The municipal well groundwater samples were placed into the appropriate containers, preserved, and placed on ice in accordance with the EPA EISOPQAM.

An equipment rinsate blank was collected and analyzed to evaluate the cleanliness of all sampling equipment. Trace-level concentrations of several contaminants were identified in the metals, trip, and equipment rinsate blanks. All concentrations of contaminants were considered when reviewing the final analytical data (see Appendix C for the complete analytical data set).

3.2 ANALYTICAL SUPPORT AND METHODOLOGY

All on-site groundwater samples collected during the SI were processed and tracked using the *FORMS II Lite*© sample tracking software. EPA selected the analytical service providers through the Contract Laboratory Program (CLP). CLP laboratories (Bonner Analytical Testing Company and Shealy Environmental) analyzed groundwater samples for EPA TCL VOCs, SVOCs, pesticides and polychlorinated biphenyls (PCBs), Target Analyte List (TAL) metals, and cyanide. The CLP laboratories submitted all analytical data to EPA Region 4 Science and Ecosystems Support Division (SESD) for analytical validation and compliance with CLP terms. Validated data for this report were then submitted to START. Analytical data sheets are presented as Appendix C.

All off-site municipal well water samples were submitted to TestAmerica Laboratories, Inc., located in Savannah, Georgia (see Appendix C). Municipal well water samples were analyzed for VOCs (EPA Method 524.2), SVOCs (EPA Methods 525.2, 515.1, 504.1), chlorinated pesticides (EPA Method 508), organochlorine pesticides and PCBs (SW846 Methods 8081A and 8082), metals (EPA Methods 200.7 and 200.8), and cyanide (MCAWW 335.4).

3.3 ANALYTICAL DATA QUALITY AND DATA QUALIFIERS

All analytical data are subject to a QA review, as described in the EPA SESD laboratory data evaluation guidelines. In the text and analytical data tables in this SI report, some concentrations of organic and inorganic parameters are qualified with a "J". A "J" qualifier indicates that the qualitative analysis is acceptable; although the quantitative value is only estimated. Results of some sample analyses are qualified with a "U", meaning that the constituent was analyzed for but undetected. The reported number is the laboratory-derived SQL for the constituent in that sample. Few results were qualified with a "N", meaning that there is presumptive evidence that the analyte is present. Sample results qualified with an "R" indicate the data were rejected and unusable.

4.0 PATHWAYS

This section discusses the groundwater migration, surface water migration, soil exposure, and air migration pathways associated with an HRS evaluation, the targets associated with each pathway, and pathway-specific conclusions. Sampling locations and analytical results for samples collected from the specific pathways are also discussed.

4.1 GROUNDWATER MIGRATION PATHWAY

The groundwater migration pathway is of primary concern at Red Panther because all drinking water in the study area comes from groundwater sources. According to MDEQ, a major municipal drinking water supplier in the area is the City of Clarksdale, which operates 10 wells ranging from approximately 600 to 1,300 feet deep (Ref. 22). Eight of the wells draw water from the shallow Sparta Aquifer, and two wells draw water from the deep Meridian-Upper Wilcox Aquifer. The City of Clarksdale maintains 7,353 connections per well, serving a total population of 20,809 and resulting in an average population per well of 2,081. Clarksdale Public Utilities (CPU) maintains one well, located within 4 miles from Red Panther (Refs. 1, 22). The well draws water from the Meridian-Upper Wilcox Aquifer. CPU maintains 10,432

connections for this well, serving a total population of 29,523. The Town of Lyon maintains one well within 2 to 3 miles from the site. The well also draws water from the Meridian-Upper Wilcox Aquifer. The Town of Lyon maintains 183 connections to this well, serving a population of 518 people. All municipal wells in the area are located within Wellhead Protection Areas (Ref. 22).

Private wells exist within a 4 mile radius of Red Panther (Refs. 1, 22). One documented private well is located within a 4 mile radius of the site. The well draws water from the Meridian-Upper Wilcox Aquifer from approximately 1,200 feet. The population served by private wells was calculated by multiplying the total number of houses served by private wells within each radial ring by 2.83, the average number of people per household based on the 2000 U.S. Census (Ref. 23). Numerous irrigation wells are also documented to exist within 4 miles of Red Panther (Ref. 22). These wells draw water from the Mississippi River Valley Alluvial Aquifer at approximately 94 to 164 feet.

4.1.1 Groundwater Analytical Results

Fourteen groundwater samples were collected during the SI; nine temporary well samples, four municipal well samples, and one on-site permanent monitoring well sample. Groundwater sampling locations are illustrated in Figures 3 and 4 located in Appendix A and described in Tables 1 and 2 located in Appendix B. Background samples for the municipal and temporary wells were collected and were discussed in Section 3.1. Groundwater analytical results are presented in Tables 5 through 7 located in Appendix B. HRS-elevated concentrations are shaded in the tables. For secondary comparison purposes, EPA Maximum Contaminant Levels (MCLs) are included in the right-hand column. Concentrations exceeding MCLs are bolded.

Temporary Monitoring Wells

Temporary monitoring wells were installed and sampled from the Red Panther property. The well depths ranged from 25.12 feet to 47.8 feet (see Table 8). The water depths ranged from 9.3 feet to 34.72 feet. Compared to the control sample (RP-TW-02), HRS-elevated concentrations of contaminants were detected in all wells except one, RP-TW-01. Elevated contaminants included ten pesticides, 16 metals, and six VOCs. Of the elevated contaminants, gamma-BHC, arsenic, barium, beryllium, cadmium, chromium, lead, and 1,2-dibromo-3-chloropropane (DBCP) exceeded MCLs.

Permanent Monitoring Well

One on-site permanent monitoring well was sampled on the Red Panther property. The well depth was measured at 47.8 feet deep. This well was labeled as MW-02. Pesticides and metals were detected in the well. Since no background well could be established for comparison, the sample results were compared to MCLs. Arsenic was detected above the MCL.

Municipal Wells

Four municipal wells were sampled within the 4-mile radius of the Red Panther property. The background well for the Meridian Upper-Wilcox Aquifer (Deep) was RP-MW-01. The deep background well was used for comparison to RP-MW-02. No contaminants were found to be elevated according to the HRS. The background well for the Sparta Aquifer (Shallow) was RP-MW-03. The shallow background well was used for comparison to RP-MW-04. Several metals including barium, copper, iron, lead, manganese, and zinc were detected at elevated concentrations compared to the background sample. All results were below their respective MCLs, with the exception of lead, which was detected at 39 µg/L, above the MCL of 15 µg/L.

4.2 SURFACE WATER MIGRATION PATHWAY

The surface water pathway is of minimal concern at Red Panther and was not investigated during this SI.

4.3 SOIL EXPOSURE PATHWAY

No source currently exists at Red Panther; however, the soil exposure pathway is of primary concern at Red Panther since elevated detections of pesticides were present in residential soil samples collected from the 18th Street Neighborhood, located just west of the site (Ref. 18). Pesticides elevated above background were detected in 26 of 30 residential soil samples. Dieldrin and toxaphene were also above EPA PRGs in numerous samples. Metals were analyzed for, but not detected at elevated concentrations. Residences at 18th Street Neighborhood occupy 0.25 acre lots.

Residential neighborhoods are located less than 0.25 mile to the west of the site (Ref. 1). A population of 660 was determined to live within 0.25 mile of the site; 2,268 people are located within 0.5 mile; and, 8,212 people are located within 1 mile (Ref. 24). Four schools, Booker T. Washington Elementary, W.A. Higgins Junior High School, Myrtle Hall III Elementary School, and Myrtle Hall 4 Elementary School;

are within 1 mile of the site. The nearest school, Booker T. Washington Elementary, is approximately 0.3 mile to the west of the site (Ref. 25).

A fence currently surrounds Red Panther (Refs. 2, pp. 1, 7; 16, p. 23). No known terrestrial-sensitive environments exist on site.

4.4 AIR MIGRATION PATHWAY

The air migration pathway is of minimal concern at Red Panther and was not investigated during this SI.

5.0 SUMMARY AND CONCLUSIONS

Red Panther is a 6.5 acre property that operated as a pesticide formulation plant between 1949 and 1978 producing liquid and dry herbicides, insecticides, and fungicides. Chemicals used in the formulation included toxaphene, methyl parathion, chloropyrifos, 2,4-D, malathion, carbaryl, diazinon, methoxychlor, disodium methanearsonate, monosodium acid methanearsonate, chlorothalonil, and parathion. Contamination on the property is believed to have originated from numerous spills during loading and unloading operations, from leaking transport piping between the process and tank farm areas, contaminated wastewater releases, and from spills and leaking underground piping in the tank farm area.

No sources currently exist at Red Panther due to the removal activities conducted by the PRP under an AOC; however, the sources previously identified and documented at Red Panther include contaminated soils and on-site tank contents. Soil sampling conducted in the Phase I and Phase II investigations support the assumption that about half of the site (3.25 acres) is subject to contaminated soils. In addition, eight ASTs were present on site prior to the removal activities. The contents of these tanks, as documented in manifests, consisted of 233,000 pounds of arsenic and pesticide-contaminated tank sludge.

Source contaminants, documented to exist in association with historical operations on site, include but are not limited to, the following: arsenic, dieldrin, toxaphene, endrin, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, heptachlor, heptachlor epoxide, alpha-chlordane, gamma-chlordane, gamma-BHC (lindane), methoxychlor, and endosulfan II.

As part of this SI, START personnel collected water samples from nine temporary monitoring wells, one on-site permanent monitoring well, and four municipal wells during the week of October 8, 2007. HRS-

elevated concentrations of contaminants were detected in the groundwater samples collected during the investigation. HRS-elevated constituents detected in the temporary wells included ten pesticides, 16 metals, and six VOCs. Of these elevated contaminants, arsenic, 4,4'-DDT, dieldrin, endrin, and gamma-BHC (Lindane) are assumed to be attributed to former site activities. In addition, gamma-BHC and arsenic exceeded MCLs. HRS-elevated constituents detected in the municipal wells include barium, copper, iron, lead, manganese, and zinc; however, none are attributed to former site activities. All other groundwater contamination is assumed to exist due to sources outside of the Red Panther property.

In addition to the Red Panther property, a soil sampling investigation was conducted at the nearby 18th Street Neighborhood (Ref. 18). Pesticides were detected in 26 of 30 soil samples collected from residential yards (Ref. 18). The soil exposure pathway is of primary concern at the site based on the elevated levels of site-attributable contaminants at Level I and Level II concentrations in residential yards surrounding the site.

The site was assessed using two scenarios based on the aquifers underlying the property. The first scenario was evaluated using a potential to release to the deeper Wilcox aquifer and the second scenario was evaluated using an observed release to the uppermost Sparta aquifer. Both scenarios at the site generate an HRS score above the HRS cutoff value of 28.5. Further activity at the site will be determined by EPA.

REFERENCES

1. U.S. Geological Survey (USGS). 7.5-minute Series Topographic Quadrangle Maps of Mississippi: Friars Point, 1978; Coahoma, 1965; Jonestown, 1969; Sherard, 1968; Clarksdale, 1968; Sabino, 1981; Duncan, 1986; Mattson, 1969; Tutwiler, 1968.
2. Weston Solutions, Inc. (Weston). *Final Removal Action Letter Report, Revision 1: Red Panther Chemical Company.* Prepared for the U.S. Environmental Protection Agency (EPA) Region 4. December 27, 2005.
3. Mississippi Office of Pollution Control (MSOPC). *A Preliminary Assessment Reassessment (PAR) Report for Red Panther Chemical Company.* February 22, 1990.
4. USGS. *Water For Industrial And Agricultural Development In Coahoma, De Soto, Panola, Quitman, Tate, and Tunica Counties, Mississippi.* 1976.
5. USGS. *Characterization of Aquifers Designated As Potential Drinking-Water Sources In Mississippi.* Date unknown.
6. USGS. Ground Water Atlas of the United States: Arkansas, Louisiana, Mississippi. Subject: Mississippi Embayment Aquifer System. Internet address: http://capp.water.usgs.gov/gwa. Accessed March 31, 2006.
7. U.S. Environmental Protection Agency (USEPA). *Administrative Order on Consent for Removal Action.* Signed July 2001.
8. USEPA. Action Memorandum. Subject: Request for an Enforcement Removal Action at the Red Panther Site, Clarksdale, Mississippi. Signed September 6, 2001.
9. MSOPC. *Screening Site Inspection Report.* January 31, 1991.
10. USEPA Envirofacts Warehouse. Envirofacts query results for "MSD000272385". Internet address: http://www.epa.gov/enviro/html/multisystem_query_java.html. Accessed January 1, 2006.
11. USEPA. Environmental News. Subject: EPA Announces The Availability Of The Administrative Record For The Red Panther Chemical Site, Clarksdale, Mississippi. December 22, 2003.
12. MSOPC. Logbook Notes from Site Screening Inspection. November 1990.
13. Mississippi Department of Environmental Quality. *Site Investigation Prioritization.* January 30, 1992.
14. Tetra Tech EM, Inc. *Letter Report.* Submitted to USEPA Region 4. September 2, 1999.
15. URS Corporation (URS). *Phase I Removal Action Report.* Submitted to Red Panther PRP Group. March 18, 2003.
16. URS. *Phase II Final Design Sampling Draft Report.* Submitted to Red Panther PRP Group. August 5, 2004.
17. URS. *Phase I Soil Characterization Report.* Submitted to Red Panther PRP Group. March 18, 2003.
18. Weston. *Final Removal Assessment Letter Removal Report: 18th Street Neighborhood.* Submitted to USEPA Region 4. December 22, 2005.

REFERENCES (Continued)

19. USEPA. Email from Kathleen Wright to Bob Mowrey (Alston & Bird, LLC) and Tony Moore (USEPA). Email forwarded from Tony Moore to Katrina Jones (USEPA). Subject: Red Panther-Approval of Work Plan. April 1, 2002.

20. Newfields. Letter to Katrina Jones (USEPA). Subject: Submittal of Data and Modifications to Phase I Work Plan Ditch Excavation and Site Characterization. August 24, 2002.

21. USEPA. Quick Reference Fact Sheet. The Revised Hazard Ranking System: Evaluating Sites After Waste Removals. October 1991.

22. T N & Associates, Inc. (TN&A). Project Note. Subject: Groundwater Well Information for City of Clarksdale, MS. February 10, 2006.

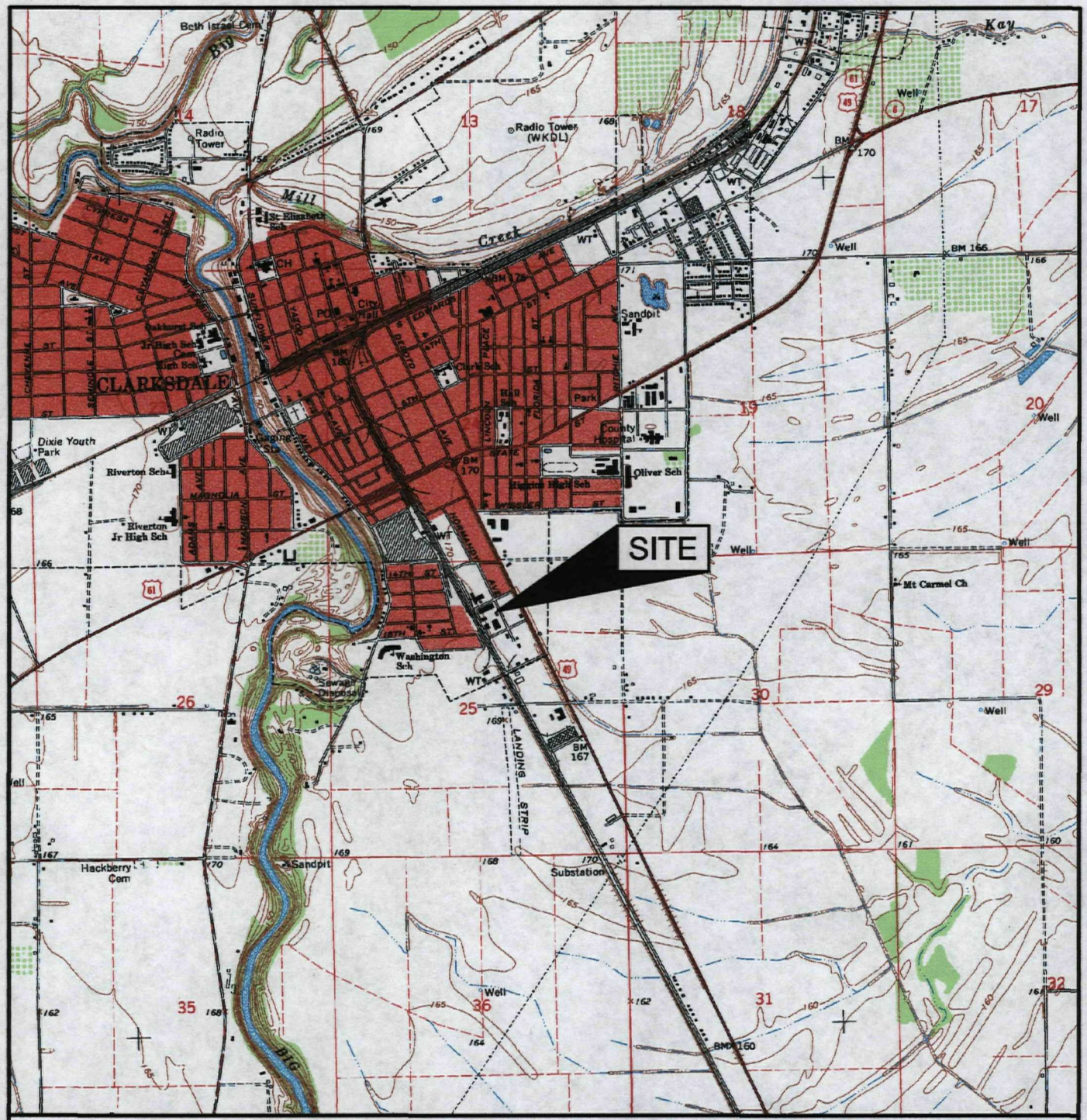
23. U.S. Census Bureau. Census 2000 Demographic Profile for Coahoma County, Mississippi. Internet address: http://factfinder.census.gov. Accessed February 1, 2006.

24. U.S. Census Bureau. Landview V – 2000 Census Data. Accessed February 1, 2006.

25. Mapquest.com. Search for schools in the vicinity of 550 Patton Street, Clarksdale, Mississippi. Accessed online at: http://mapquest.com. Accessed on August 29, 2008.

APPENDIX A

Figures



N

0 2500 5000

SCALE IN FEET

MISSISSIPPI

QUADRANGLE LOCATION

CLARKSDALE, MISSISSIPPI
NE/4 CLARKSDALE 15' QUADRANGLE
N3407.5-W9030/7.5

1967
AMS 2852 II NE-SERIES V843

TN & Associates, Inc.
EPA Region 4 START
In association with Shaw E&I and Aerostar

FIGURE 1
TOPOGRAPHIC MAP

RED PANTHER CHEMICAL COMPANY
CLARKSDALE, COAHOMA COUNTY, MS
TDD NO. TNA-05-003-0004

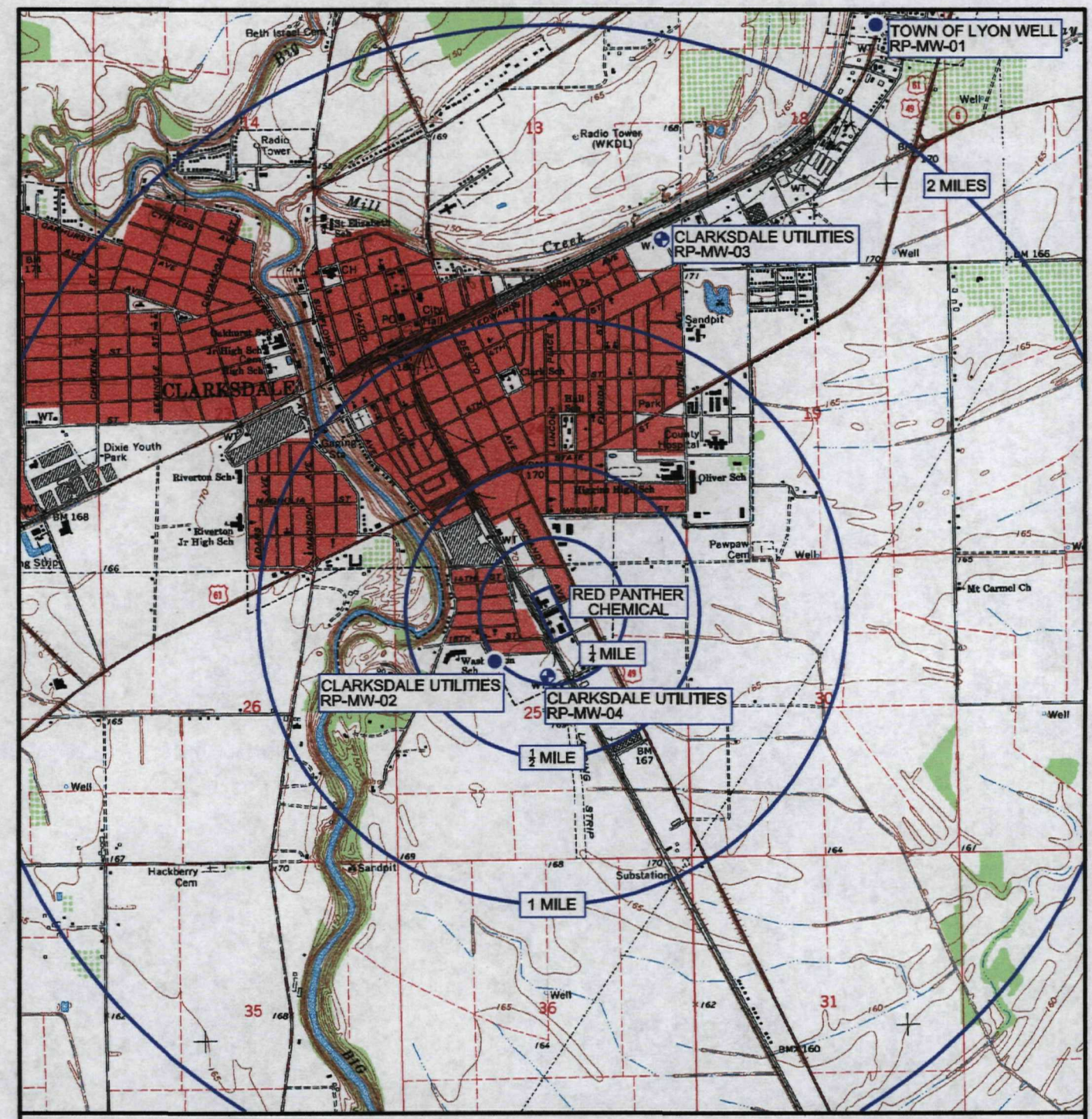
FILE NAME: RED PANTHER FIGURE 1.DWG

TN & Associates, Inc.
EPA Region 4 START
in association with Shaw E&I and Aerostar

FIGURE 2
SITE LAYOUT MAP

RED PANTHER CHEMICAL COMPANY
CLARKSDALE, COAHOMA COUNTY, MISSISSIPPI
TDD NO. TNA-05-003-0004

FILE NAME: RED PANTHER FIGURE 2.DWG

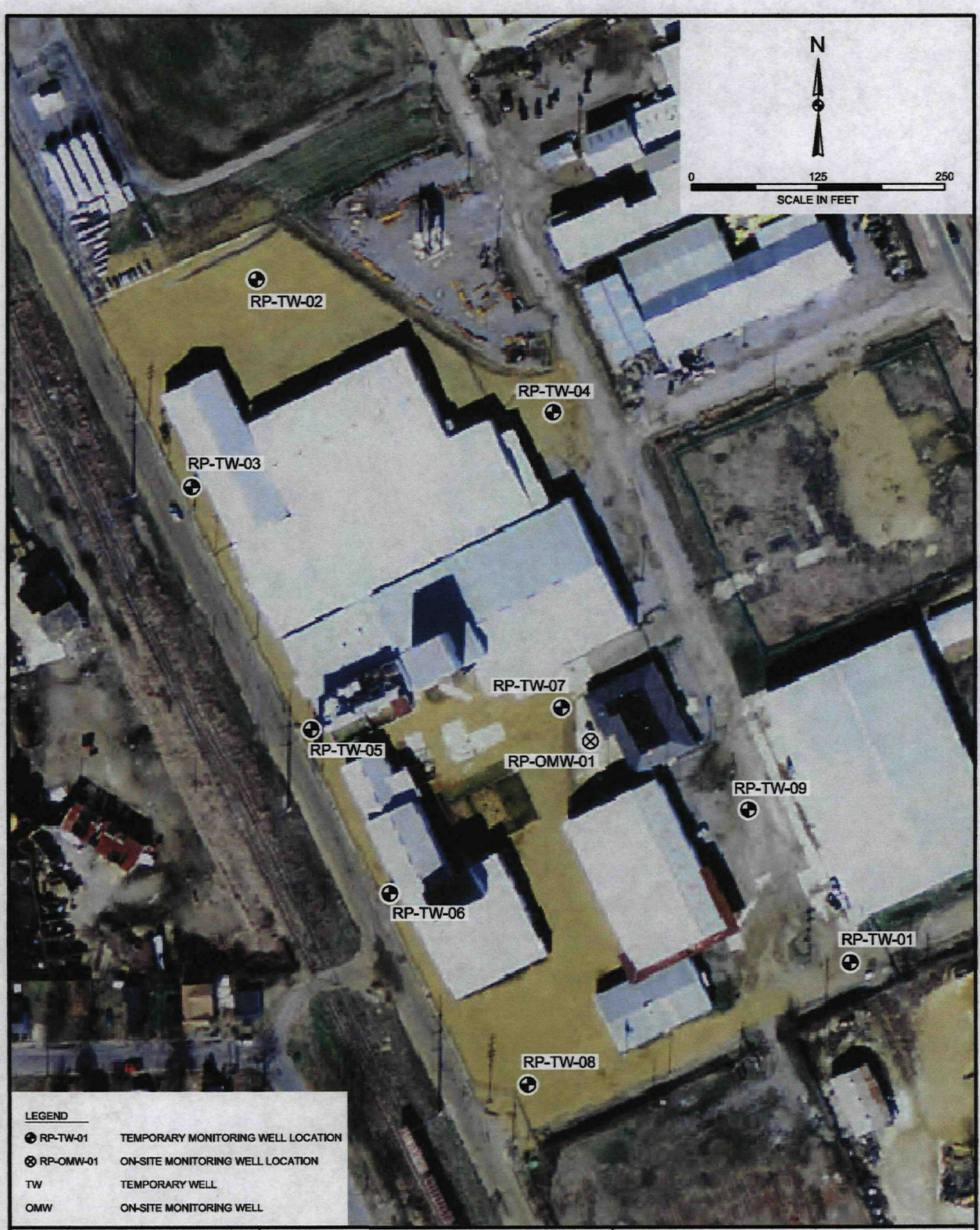


TN & Associates, Inc.
EPA Region 4 START
In association with Shaw E&I and Aerostar

FIGURE 3
MUNICIPAL WELL SAMPLE LOCATION MAP

RED PANTHER CHEMICAL COMPANY
CLARKSDALE, COAHOMA COUNTY, MS
TDD NO. TNA-05-003-0004

FILE NAME: RED PANTHER FIGURE 3.DWG



TN & Associates, Inc.
EPA Region 4 START
In association with Shaw E&I and Aerostar

FIGURE 4
ON-SITE GROUNDWATER SAMPLE LOCATIONS

RED PANTHER CHEMICAL COMPANY
CLARKSDALE, COAHOMA COUNTY, MS
TDD NO. TNA-05-003-0004

FILE NAME: RED PANTHER FIGURE 4.DWG

APPENDIX B

Tables

TABLE 1
OFF-SITE MUNICIPAL WELL SAMPLE LOCATIONS
RED PANTHER CHEMICAL COMPANY

Sample Number	Location	Rationale
RP-MW-01	Background; Town of Lyon municipal well screened in the Meridian-Upper Wilcox Aquifer	Establish background conditions for comparison to RP-MW-02
RP-MW-02	Southwest of the site; Clarksdale Utilities municipal well screened in the Meridian-Upper Wilcox Aquifer	Determine presence or absence of hazardous constituents
RP-MW-03	Background; Clarksdale Utilities municipal well screened in the Sparta Aquifer	Establish background conditions for comparison to RP-MW-04
RP-MW-04	South of the site; Clarksdale Utilities municipal well screened in the Sparta Aquifer	Determine presence or absence of hazardous constituents

Notes:
RP Red Panther
MW Municipal Well

TABLE 2
ON-SITE GROUNDWATER SAMPLE LOCATIONS
RED PANTHER CHEMICAL COMPANY

Sample Number	Location	Rationale
RP-TW-01	Northern portion of site; Located near Product Storage Building and Liquid Blending Facility	Determine presence or absence of hazardous constituents
RP-TW-02	Background; To be determined in the field	Establish background conditions for comparison to other on-site samples
RP-TW-03	West of Liquid Blending Facility; Northern portion of site	Determine presence or absence of hazardous constituents
RP-TW-04	East of Product Storage Building; Adjacent to Ditch 1	Determine presence or absence of hazardous constituents
RP-TW-05	West of former drum storage area; Adjacent to railroad spur	Determine presence or absence of hazardous constituents
RP-TW-06	West of Liquid Blending Facility and Storage Building; Southern portion of site	Determine presence or absence of hazardous constituents
RP-TW-07	Former drum waste storage tank area	Determine presence or absence of hazardous constituents
RP-TW-08	Southernmost corner of site; Near southern ditch	Determine presence or absence of hazardous constituents
RP-TW-09	East of Warehouse; Near southern ditch	Determine presence or absence of hazardous constituents
RP-OMW-01	On-site monitoring well (MW-2)	Determine presence or absence of hazardous consituents

Notes:
RP Red Panther
TW Temporary Well
OMW On-Site Monitoring Well

TABLE 3
QUALITY ASSURANCE/QUALITY CONTROL SAMPLES
RED PANTHER CHEMCIAL COMPANY

Sample Number	Location	Rationale
RP-MW-05	Duplicate municipal well sample of RP-MW-02	Verify that laboratory can duplicate results
RP-OMW-02	Duplicate monitoring well sample of RP-OMW-01	Verify that laboratory can duplicate results
RP-DS-01	Drum Sample of IDW (Purge water and/or decon water)	Determine how IDW should be disposed of
RP-TB-01 RP-TB-02 RP-TB-03 RP-TB-04	Trip Blank (Day 1) Trip Blank (Day 2) Trip Blank (Day 3) Trip Blank (Day 4)	Determine if unknown site conditions or sample handling procedures are influencing sample results
RP-MB-01	Metals Blank	Determine if unknown site conditions or sample handling procedures are influencing sample results
RP-PB-01	Preservative Blank	Verify that preservative is not influencing sample results
RP-RB-01	Rinsate Blank	Verify that decontamination procedures adequately clean equipment

Notes:

RP	Red Panther	TB	Trip Blank
MW	Municipal Well	RB	Rinsate Blank
TW	Temporary Well	DS	Drum Sample
IDW	Investigation-Derived Waste	MB	Metals Blank
PB	Preservative Blank		

TABLE 4
ANALYTICAL METHODOLOGY, SAMPLE CONTAINERS, AND PRESERVATIVES
RED PANTHER CHEMICAL COMPANY

Matrix	Analysis	EPA Method	Sample Container	Preservative
Water	VOC	CLP	Three 40-mL vials with septa	HCl; Cool to 4 °C
	SVOC		Two 1-Liter Amber jar	Cool to 4 °C
	Pesticides		Two 1-Liter Amber jar	Cool to 4 °C
	PCB		Two 1-Liter Amber jar	Cool to 4 °C
	Metals		One 1-Liter poly jar	HNO_3; Cool to 4 °C
	Cyanide		One 1-Liter poly jar	NaOH; Cool to 4 °C

Notes:

VOC	Volatile Organic Compounds
SVOC	Semivolatile Organic Compounds
PCB	Polychlorinated Biphenyl
CLP	Contract Laboratory Program
°C	Degree Celsius
HCL	Hydrochloric Acid
HNO_3	Nitric Acid
mL	Milliliter
NaOH	Sodium hydroxide

TABLE 5
MUNICIPAL WELL ANALYTICAL RESULTS SUMMARY
RED PANTHER CHEMICAL COMPANY

Analyte (µg/L)	Meridian Upper-Wilcox Aquifer (Deep)			Sparta Aquifer (Shallow)		MCL (µg/L)
	RP-MW-01 Background Town of Lyon Well	**RP-MW-02** Clarksdale Utilities Well	**RP-MW-05 Duplicate of RP-MW-02** Clarksdale Utilities Well	**RP-MW-03 Background** Clarksdale Utilities Well	**RP-MW-04** Clarksdale Utilities Well	
SVOCs						
Bis(2-ethylhexyl)phthalate	1.9 U	1.9 U	2 U	1.9 U	0.87 J	NL
Metals						
Antimony	0.5 U	0.5 U	0.5 U	0.5 U	0.15 J	6
Barium	12	3.5	3.5	11	110	2,000
Cadmium	0.1 U	0.1 U	0.1 U	0.1 U	0.082 J	5
Chromium	1.6 U	1.3 U	1.5 U	1.4 U	1.4 U	100
Copper	8.9	4.6	4.7	8.7	56	1,300 *
Iron	86	52	55	80	260	NL
Lead	1.1	0.76	0.8	0.75	**39**	15 *
Manganese	10 U	3.7 J	3.8 J	2.9 J	48	NL
Mercury	0.051 J	0.092 U	0.094 U	0.045 J	0.099 U	2
Selenium	0.85	0.61	0.48 J	0.76	0.61	50
Zinc	6.4 J	4.8 J	20 U	32	100	NL

Notes:

Bold - Constituent is elevated above the action limit
Shaded - Constituent is elevated above the background
SVOC - Semivolatile organic compound
RP - Red Panther
NL - Not Listed
MW - Municipal well
µg/L - Micrograms per liter
MCL - EPA Maximum Contaminant Level
U - Constituent not detected. Number is the Sample Quantitation Limit
J - Estimated value; Result is less than the Reporting Limit, but greater than or equal to the Method Detection Limit
* - MCL not listed; however, lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water.

TABLE 6
TEMPORARY WELL ANALYTICAL RESULTS SUMMARY
RED PANTHER CHEMICAL COMPANY

Compound (µg/L)	RP-TW-02 Background	RP-TW-01	RP-TW-03	RP-TW-04	RP-TW-05	RP-TW-06	RP-TW-07	RP-TW-08	RP-TW-09	MCL
Pesticides										
4,4'-DDT (p,p'-DDT)	0.015 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ	0.78 J	0.1 UJ	0.1 UJ	NL
Aldrin	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.025 NJ	0.05 UJ	0.18 J	0.05 UJ	0.05 UJ	NL
alpha-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	1.7 J	0.05 UJ	9.5 J	0.05 UJ	0.022 J	NL
alpha-Chlordane	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UR	0.007 J	0.072 UJ	0.05 UJ	0.05 UJ	NL
beta-BHC	0.05 UJ	0.05 UR	0.05 UJ	0.05 UJ	9.4 J	0.05 UJ	1.2 J	0.05 UJ	0.68 J	NL
delta-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.78 UR	0.05 UJ	5.3 J	0.05 UJ	0.05 UJ	NL
Dieldrin	0.1 UJ	0.011 J	0.1 UJ	0.1 UJ	0.019 NJ	0.1 UJ	2.1 J	0.1 UJ	0.1 UJ	NL
Endrin	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ	1.4 J	0.1 UJ	0.1 UJ	2
Endrin aldehyde	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ	0.26 J	0.1 UJ	0.1 UJ	NL
Endrin ketone	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ	1.3 J	0.1 UJ	0.024 J	NL
gamma-BHC (Lindane)	0.01 NJ	0.05 UJ	0.05 UJ	0.05 UJ	3.1 J	0.015 NJ	12 J	0.05 UJ	0.051 J	0.2
gamma-Chlordane	0.05 UJ	0.05 UJ	0.006 J	0.008 J	0.05 UR	0.05 UJ	0.024 NJ	0.05 UJ	0.05 UJ	NL
Metals, Total										
Aluminum	6,300	13000	31000	110000	20000	180 J	5200	21000	11000	50–200[a]
Arsenic	10 UJ	10 UJ	10 UJ	16 J	21 J	29 J	10 UJ	10 UJ	10 UJ	10
Barium	120 J	290	620	3200	1200	400	530	590	320	2,000
Beryllium	0.62 J	0.7 J	3.9 J	10	15	5 U	0.36 J	1.7 J	0.8 J	4
Cadmium	5 U	5 U	5 U	5 U	13	5 U	5 U	5 U	5 U	5
Chromium	6.8 J	14	43	120	25	1.1 J	5.9 J	23	13	100
Cobalt	3.8 UJ	6.1 UJ	33 UJ	93	140	1.7 UJ	3.6 UJ	21 UJ	6.9 UJ	NL
Copper	25 U	3.8 J	21 J	170	170	25 U	25 U	25	3.6 J	1,000[a]
Iron	12,000	13000	120000	250000	88000	6300	12000	38000	11000	300[a]
Lead	10 U	10 U	26	120	120	10 U	10 U	20	5.1 J	15
Magnesium	100,000	19000	160000	180000	120000	41000	38000	39000	26000	NL
Manganese	2,400	1100	11000	17000	9800	3100	1700	2900	550	50[a]
Mercury	0.2 U	0.099 UJ	0.28	0.8	0.2 U	0.2 U	0.2 U	0.12 UJ	0.11 UJ	2
Nickel	5.8 J	12 J	76	210	480	40 U	2.9 J	47	14 J	NL
Vanadium	16 J	27 J	93 J	300 J	190 J	50 UJ	12 J	59 J	27 J	NL
Zinc	32 UJ	43 UJ	180 J	500 J	350 J	4.3 UJ	33 UJ	120 J	47 UJ	5,000
Volatile Organic Compounds										
(m- and/or p-)Xylene	5 U	5 U	5 U	5 U	5 U	5 U	26	5 U	5 U	NL
1,2-Dibromo-3-Chloropropane (DBCP)	5 U	5 U	5 U	5 U	0.69 J	5 U	110	5 U	5 U	0.2
1,2-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	0.76 J	5 U	5 U	600
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	1.3 J	5 U	5 U	75
Acetone	10 U	20 U	10 U	10 U	60	10 U	10 U	10 U	10 U	NL
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	1.9 J	5 U	5 U	5
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	3 J	5 U	5 U	100
Chloroform	5 U	5 U	5 U	5 U	0.77 J	5 U	5 U	5 U	5 U	NL
Ethyl Benzene	5 U	5 U	5 U	5 U	5 U	5 U	12	5 U	5 U	NL
Isopropylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	12	5 U	5 U	NL
Methyl T-Butyl Ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	1.3 J	5 U	5 U	NL
o-Xylene	5 U	5 U	5 U	5 U	5 U	5 U	51	5 U	5 U	NL
Toluene	5 U	5 U	5 U	5 U	0.52 J	5 U	0.52 J	5 U	5 U	1,000

TABLE 6
TEMPORARY WELL ANALYTICAL RESULTS SUMMARY
RED PANTHER CHEMICAL COMPANY

Notes:

Shaded - Constituent is elevated above the background result
Bold - Constituent is elevated above the action limit
µg/L - Micrograms per liter
U - Constituent not detected
J - The identification of the analyte is acceptable; the reported value is an estimate.
R - The data are rejected and considered unusable.
N - Presumptive evidence that the analyte is present
RP - Red Panther
TW - Temporary well
MCL - EPA Maximum Contaminant Level
NL - No action limit is established
a - National Secondary Drinking Water Standard

TABLE 7
PERMANENT WELL ANALYTICAL RESULTS SUMMARY
RED PANTHER CHEMICAL COMPANY

Compound (µg/L)	RP-OMW-01	MCL
Pesticides		
Heptachlor epoxide	0.034 NJ	0.2
Metals, Total		
Aluminum	6000	50–200[a]
Arsenic	**21 J**	10
Barium	940	2,000
Beryllium	0.51 J	4
Chromium	9.6 J	100
Copper	0.98	1,300[a]
Iron	100,000	300[a]
Magnesium	34000	NL
Manganese	3,200	50[a]
Nickel	5.2 J	NL
Silver	1 J	100[a]
Vanadium	16 J	NL

Notes:

Bold - Constituent is elevated above the action limit
OMW - On-Site Monitoring Well
RP - Red Panther
NJ - Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
J - The identification of the analyte is acceptable; the reported value is an estimate.
MCL - Maximum Contaminant Level
µg/L - Micrograms per liter
a - National Secondary Drinking Water Standard
NL - No action limit established

APPENDIX C

Analytical Data

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

December 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0029, Red Panther Chemical Co
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Organochlorine Pesticides (OCP)	
Organochlorine pesticides	CLP Pesticides

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Report Narrative for Work Order C074201, Project: 08-0029
Data Review and Validation Report
Site Name: Red Panther Chemical, Clarksdale, MS
Case No. 36903
ELEMENT Nos. C074201-01 - C074201-20
Sampling Dates: 10/07 - 11/07

Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS
Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of fifteen water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below.

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in

sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Organic Analysis: Shealy Environmental, West Columbia, SC

The ESAT Work Team reviewed data for eighteen water samples analyzed for volatiles, semivolatile extractables, aroclors, and pesticides, per CLP statement of work SOM01.2. The samples were received by the laboratory between 10/10/07 and 10/12/07, and the data package was received on 11/05/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The laboratory scored within warning limits for all spiked compounds in the water volatile PES except for 1,2,3-trichlorobenzene which was scored as action low and 4-methyl-2-pentanone and 1,4-dioxane which were both scored as warning low. Also the laboratory reported the presence of both methylene chloride and trichloroethene which were both scored as PES contaminants at less than the CRQL. The laboratory did not analyze this PES concurrently with the actual field samples, and it was not used to qualify data.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results associated with the volatile DMC 1,2-dichloropropane-d6, which had a low recovery, were "J" qualified in sample C074201-03 (D46W6). Low semivolatile extractable DMC recoveries were observed in samples C074201-14 (D46T0), C074201-15 (D46T1), C074201-03 (D46W6), C074201-04 (D46W7), C074201-05 (D46T2), C074201-07 (D46T9), C074201-08 (D46W4), and C074201-10(D46W1). All analytes associated with these DMCs were "J" qualified unless the DMC recovery was less than 10% ("R" qualified).

All pesticide surrogate recoveries (<10% for decachlorobiphenyl) were low in sample C074201-02 (D46W2) for both the original analysis and the reextraction. All positive pesticide results were "J" qualified and all nondetected pesticide results were "R" qualified in this sample. Low decachlorobiphenyl recoveries were reported for samples C074201-03 (D46W6), C074201-05 (D46T2), C074201-06 (D46T8), C074201-09 (D46W0), C074201-11 (D46W3), C074201-14 (D46T0), and C074201-15 (D46T1). The laboratory reextracted all of these samples outside technical holding time limits, except for C074201-05 (D46T2) due to insufficient sample volume remaining, because the associated method blank (PBLK14) also had low decachlorobiphenyl recovery. Similar recoveries were reported for the reextractions. All positive results and all nondetect pesticide results were "J" qualified whenever these low recoveries exceeded 10% in these seven samples. Nondetect results were "R" qualified whenever surrogate recoveries were less than 10%.

All aroclor results were "J" qualified in samples C074201-08 (D46W4), C074201-14 (D46T0) and C074201-15 (D46T1) due to low recoveries for the surrogate decachlorobiphenyl. All aroclor results were "R" qualified in sample C074201-05 (D46T2) due to decachlorobiphenyl recoveries of less than 10%. The SOW does not require

any corrective action so long as one aroclor surrogate recovery is acceptable.

The native sample (unspiked C074201-15/D46T1) pesticide chromatogram did not resemble those for the MS or MSD. For example, the beta-BHC which was not spiked was reported as "0.050 ug/l U" in the native sample but as 7.3 and 6.8 ug/l in the MS and MSD respectively. The chromatograms for the aroclor fraction of the same sample (both native and MS/MSD) appeared to be more consistent with a high BHC result. However, a definitive conclusion can not be made because the laboratory used different columns than those used for pesticides. Upon discussions with the site's Project Manager and laboratory personnel it was determined that these water samples had unusually large amounts of particulates present and it was plausible that sample non-homogeneity could be the source of these differences. However, the reviewer could not rule out the possibility of samples being crossed in the field or at the laboratory. Effects due to possible sample non-homogeneity were not apparent in the volatile or semivolatile analyses. Therefore, all groundwater pesticide results were "J" qualified.

The volatile analyte 1,4-dioxane responded poorly (RRF < 0.0050) in an ending calibration check standard. All associated sample results were "R" qualified.

Two volatile and six semivolatile extractable compounds exhibited erratic continuing calibration performance necessitating that all associated results be "J" qualified.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co **Contract Lab Case: 36903**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-TW-05	C074201-02	46W2	46W2	Groundwater	10/9/07 16:38	10/12/07 14:42
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-01	C074201-06	46T8	46T8	Groundwater	10/11/07 12:40	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-03	C074201-09	46W0	46W0	Groundwater	10/10/07 12:40	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-TW-07	C074201-11	46W3	46W3	Groundwater	10/10/07 12:35	10/12/07 14:42
RP-RB-01	C074201-13	46S8	46S8	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP12	Difference between GC columns above method warning limit
CLP13	Difference between GC columns above method action limit
H-1	Recommended holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W2 BONNER

D No: 46W2 SHEALY

Sample ID: RP-TW-05
Station ID:

Lab ID: C074201-02
Matrix: Groundwater

Date Collected: 10/9/07 16:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
309-00-2	Aldrin	0.025	NJ, QS-4, CLP12	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-84-6	alpha-BHC	1.7	J, CLP01, QS-4	ug/L	5.0	10/16/07	10/26/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, R, QS-4	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-85-7	beta-BHC	9.4	J, QS-4, CLP01	ug/L	5.0	10/16/07	10/26/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.78	U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.019	NJ, QS-4, CLP12, CLP01	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, R, QS-4	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	3.1	J, QS-4, CLP01	ug/L	5.0	10/16/07	10/26/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, R, QS-4	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.068	U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, R, QS-4	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, R, QS-4	ug/L	0.50	10/16/07	10/22/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/22/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co
RP-OMW-01 (ou)

Contract Lab Case: 36903
MD No: 46W6 BONNER
D No: 46W6 SHEALY

Sample ID: RP-MW-01
Station ID:
Lab ID: C074201-03
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.034	NJ, CLP01, CLP12, QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J, QS-3	ug/L	0.50	10/16/07	10/22/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J, QS-3	ug/L	5.0	10/16/07	10/22/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co
RP-OMW-02 (420)

Contract Lab Case: 36903
MD No: 46W7 BONNER
D No: 46W7 SHEALY

Sample ID: RP-MW-02
Station ID:
Lab ID: C074201-04
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.044	NJ, CLP01, CLP12	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J	ug/L	0.50	10/16/07	10/22/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J	ug/L	5.0	10/16/07	10/22/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	3.4	J, QS-4	ug/L	2.0	10/16/07	10/26/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.58	U, R, QS-4, CLP13	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	14	J, QS-4	ug/L	2.0	10/16/07	10/26/07	CLP SOM01.2 P
309-00-2	Aldrin	3.6	J, QS-4	ug/L	1.0	10/16/07	10/26/07	CLP SOM01.2 P
319-84-6	alpha-BHC	3.4	J, QS-4	ug/L	1.0	10/16/07	10/26/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.30	U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	2.0	J, QS-4	ug/L	1.0	10/16/07	10/26/07	CLP SOM01.2 P
319-86-8	delta-BHC	2.6	J, QS-4	ug/L	1.0	10/16/07	10/26/07	CLP SOM01.2 P
60-57-1	Dieldrin	10	J, QS-4	ug/L	2.0	10/16/07	10/26/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.26	U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.35	U, R, QS-4, CLP13	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.55	U, R, QS-4, CLP13	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	5.6	J, QS-4	ug/L	2.0	10/16/07	10/26/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	2.6	U, R, QS-4, CLP13	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	1.7	NJ, QS-4, CLP12	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	4.6	J, QS-4	ug/L	1.0	10/16/07	10/26/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.13	U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, R, QS-4	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.33	U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	2.5	NJ, QS-4, CLP12	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T8 BONNER

D No: 46T8 SHEALY

Sample ID: RP-TW-01

Station ID:

Lab ID: C074201-06

Matrix: Groundwater

Date Collected: 10/11/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, R, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.011	J, CLP01, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J, H-1, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, J, H-1, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J, H-1, QS-3	ug/L	0.50	10/25/07	10/30/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J, H-1, QS-3	ug/L	5.0	10/25/07	10/30/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.015	J, CLP01	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.010	NJ, CLP01, CLP12	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W4 BONNER

D No: 46W4 SHEALY

Sample ID: RP-TW-09

Station ID:

Lab ID: C074201-08

Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.022	J, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.68	J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.024	J, CLP01	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.051	J, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W0 BONNER

D No: 46W0 SHEALY

Sample ID: RP-TW-03

Station ID:

Lab ID: C074201-09

Matrix: Groundwater

Date Collected: 10/10/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10 U	J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.0060 J	QS-3, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050 U	J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50 U	J, QS-3	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0 U	J, QS-3	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W1 BONNER

D No: 46W1 SHEALY

Sample ID: RP-TW-04

Station ID:

Lab ID: C074201-10

Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.0080	J, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W3 BONNER

D No: 46W3 SHEALY

Sample ID: RP-TW-07

Station ID:

Lab ID: C074201-11

Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.43 U, J, QS-3, CLP13	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.78 J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.18 J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	9.5 J, QS-3	ug/L	1.3	10/16/07	10/27/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.072 U, J, QS-3, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	1.2 J, QS-3, CLP01	ug/L	1.3	10/16/07	10/27/07	CLP SOM01.2 P
319-86-8	delta-BHC	5.3 J, QS-3	ug/L	1.3	10/16/07	10/27/07	CLP SOM01.2 P
60-57-1	Dieldrin	2.1 J, QS-3	ug/L	2.5	10/16/07	10/27/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	1.4 J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.26 J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	1.3 J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	12 J, QS-3	ug/L	1.3	10/16/07	10/27/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.024 NJ, QS-3, CLP01, CLP12	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.10 U, J, QS-3, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50 U, J, QS-3	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0 U, J, QS-3	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U	ug/L	0.50	10/15/07	10/19/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U	ug/L	5.0	10/15/07	10/19/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.0070	J, QS-3, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.015	NJ, QS-3, CLP12, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J, QS-3	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J, QS-3	ug/L	5.0	10/16/07	10/23/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
72-20-8	Endrin	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U, J, QS-3	ug/L	0.10	10/15/07	10/19/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U, J, QS-3	ug/L	0.050	10/15/07	10/19/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U, J, QS-3	ug/L	0.50	10/15/07	10/19/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/19/07	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

November 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0029, Red Panther Chemical Co
Superfund Remedial

FROM: Denise Goddard
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Classical/Nutrient Analyses (CNA)	
Cyanide	CLP Inorganics
Total Metals (TMTL)	
Total Mercury	CLP Inorganics
Total Metals	CLP Inorganics

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Report Narrative for Work Order C074201, Project: 08-0029
Data Review and Validation Report
Site Name: Red Panther Chemical, Clarksdale, MS
Case No. 36903, Project No. 08-0029, Work Order No. C074201
ELEMENT Nos. C074201-01 - C074201-15, C074201-21 - C07401-23
Sampling Dates: 10/07 - 09/07
Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS
Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 18 water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being

potential false positives and, hence, unusable and flagged "R".

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co **Contract Lab Case: 36903**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-PB-01	C074201-01	46T3		Preservative Blank	10/9/07 14:50	10/12/07 14:42
RP-TW-05	C074201-02	46W2	46W2	Groundwater	10/9/07 16:38	10/12/07 14:42
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-01	C074201-06	46T8	46T8	Groundwater	10/11/07 12:40	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-03	C074201-09	46W0	46W0	Groundwater	10/10/07 12:40	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-TW-07	C074201-11	46W3	46W3	Groundwater	10/10/07 12:35	10/12/07 14:42
RP-MB-01	C074201-12	46S7		CLP Metals Blank	10/8/07 17:00	10/12/07 14:42
RP-RB-01	C074201-13	46S8	46S8	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-1	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP03	Baseline instability in calibration or preparation blanks
CLP04	Analyte reported as potential false positive (% RSD > 20%, and result > MDL, but < CRQL)
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
Q-5	Serial dilution precision outside method control limits
QM-1	Matrix Spike Recovery less than method control limits
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T3 BONNER

Sample ID: RP-PB-01

Station ID:

Lab ID: C074201-01

Matrix: Preservative Blank

D No:

Date Collected: 10/9/07 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	68	U, J, Q-2, B-1	ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	200	U	ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	20	J, Q-2	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	50	U	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	100	U	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	5.4	J, Q-2	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	15	U	ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	40	U	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	5000	U, J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	230000		ug/L	15000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	50	U, J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	4.1	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T3 BONNER

Sample ID: RP-PB-01

Lab ID: C074201-01

D No:

Station ID:

Matrix: Preservative Blank

Date Collected: 10/9/07 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W2 BONNER

D No: 46W2 SHEALY

Sample ID: RP-TW-05

Station ID:

Lab ID: C074201-02

Matrix: Groundwater

Date Collected: 10/9/07 16:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	20000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	21	J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	1200		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	15		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	13		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	590000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	25		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	140		ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	170		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	88000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	120		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	120000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	9800		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	480		ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	14000	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	40000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	190	J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	350	J, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W2 BONNER
D No: 46W2 SHEALY

Sample ID: RP-TW-05
Station ID:

Lab ID: C074201-02
Matrix: Groundwater

Date Collected: 10/9/07 16:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP.ILM05.4.AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co
RP-OMW-01 (AW)

Contract Lab Case: 36903
MD No: 46W6 BONNER
D No: 46W6 SHEALY

Sample ID: RP-MW-01
Station ID:
Lab ID: C074201-03
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	6000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	21	J	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	940		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.51	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	120000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	9.6	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	2.4	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	0.98		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	100000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	34000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	3200		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	5.2	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	4500	J, Q-2, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	1.0	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	320000		ug/L	25000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	16	J, Q-2, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	23	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co
RP-OMW-01 (aw)

Contract Lab Case: 36903
MD No: 46W6 BONNER
D No: 46W6 SHEALY

Sample ID: RP-MW-01
Station ID:

Lab ID: C074201-03
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co
RP-OMW-02 (a)

Contract Lab Case: 36903
MD No: 46W7 BONNER
D No: 46W7 SHEALY

Sample ID: RP-MW-02
Station ID:

Lab ID: C074201-04
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	%MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	6600		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	36	J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	900		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.47	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	120000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	9.5	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	2.3	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	3.0	J, Q-2	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	100000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	33000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	3200		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	6.8	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	8000	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	2700000		ug/L	150000	10/17/07	10/29/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	16	J, Q-2, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	25	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co
RP-DMW-02 (a)

Contract Lab Case: 36903
MD No: 46W7 BONNER
D No: 46W7 SHEALY

Sample ID: RP-MW-02
Station ID:

Lab ID: C074201-04
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46T2 BONNER
D No: 46T2 SHEALY

Sample ID: RP-DS-01
Station ID:

Lab ID: C074201-05
Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.31		ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	3400		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	620		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	2.0	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	72000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	7.3	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	12	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	43		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	7800		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	13		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	23000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	2000		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	20	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	6300	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	89000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	22	J, Q-5, Q-2	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	410	J, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP,ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T8 BONNER

D No: 46T8 SHEALY

Sample ID: RP-TW-01

Station ID:

Lab ID: C074201-06

Matrix: Groundwater

Date Collected: 10/11/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.099	U, J, Q-2, CLP01	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	13000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	290		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.70	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	60000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	14		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.1	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	3.8	J, Q-2	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	13000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	19000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	1100		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	12	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	6000	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	22000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	27	J, Q-2, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	43	U, J, Q-2, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	6300		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	120	J, Q-2	ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.62	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	310000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	6.8	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.8	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	12000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	100000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	2400		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	5.8	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	7700	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	52000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	16	J, Q-2, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	32	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02
Station ID:

Lab ID: C074201-07
Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W4 BONNER
D No: 46W4 SHEALY

Sample ID: RP-TW-09
Station ID:

Lab ID: C074201-08
Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U, J, Q-2, CLP01	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	11000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	320		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.80	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	80000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	13		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	6.9	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	3.6	J, Q-2	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	11000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	5.1	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	26000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	550		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	14	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	4100	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	10000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	27	J, Q-5, Q-2	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	47	U, J, Q-2, Q-5, CLP03	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W4 BONNER
D No: 46W4 SHEALY

Sample ID: RP-TW-09
Station ID:

Lab ID: C074201-08
Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W0 BONNER

D No: 46W0 SHEALY

Sample ID: RP-TW-03

Station ID:

Lab ID: C074201-09

Matrix: Groundwater

Date Collected: 10/10/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.28		ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	31000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	620		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	3.9	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	580000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	43		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	33	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	21	J, Q-2	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	120000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	26		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	160000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	11000		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	76		ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	18000	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	41000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	93	J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	180	J, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W1 BONNER

D No: 46W1 SHEALY

Sample ID: RP-TW-04

Station ID:

Lab ID: C074201-10

Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.80		ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	110000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60 U, J, QM-1		ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	16 J, QM-1		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	3200		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	10		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0 U		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	750000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	120		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	93		ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	170		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	250000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	120		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	180000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	17000		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	210		ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	33000 J, Q-5		ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35 U, J, QM-1		ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10 U		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	19000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25 U		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	300 J, Q-5		ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	500 J, Q-5		ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W1 BONNER
D No: 46W1 SHEALY

Sample ID: RP-TW-04
Station ID:

Lab ID: C074201-10
Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W3 BONNER

D No: 46W3 SHEALY

Sample ID: RP-TW-07

Station ID:

Lab ID: C074201-11

Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	5200		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	530		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.36	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	130000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	5.9	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	3.6	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	12000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	38000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	1700		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	2.9	J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	4600	J, Q-2, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	27000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	12	J, Q-2, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	33	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W3 BONNER
D No: 46W3 SHEALY

Sample ID: RP-TW-07
Station ID:

Lab ID: C074201-11
Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S7 BONNER

Sample ID: RP-MB-01

Station ID:

Lab ID: C074201-12

Matrix: CLP Metals Blank

D No:

Date Collected: 10/8/07 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	57	J	ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	200	U	ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	5000	U	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	50	U	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	100	U	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	5000	U	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	15	U	ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	40	U	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	5000	U	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	5000	U	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	50	U	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	3.0	J	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	39	U, J, Q-2, B-1	ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	200	U	ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	5000	U	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	50	U	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	5.2	R, Q-2, CLP04	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	3.9	R, Q-2, CLP04	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	15	U	ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	40	U	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	5000	U, J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	140		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	50	U, J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	18	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20 U		ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	180	J, Q-2	ug/L	200	10/17/07	10/29/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	29	J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	400		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	5.0 U		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0 U		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	110000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	1.1	J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	1.7	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25 U		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	6300		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10 U		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	41000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	3100		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	40 U		ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	3600	J, Q-5	ug/L	5000	10/17/07	10/29/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10 U		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	15000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25 U		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	50	U, J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	4.3	U, J, Q-2, CLP03, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46T0 BONNER
D No: 46T0 SHEALY

Sample ID: RP-TW-06
Station ID:

Lab ID: C074201-14
Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U, J, Q-2, CLP01	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	21000		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	590		ug/L	200	10/17/07	10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	1.7	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0	U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	100000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	23		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	21	U, J, Q-2, CLP03	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25		ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7439-89-6	Iron	38000		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	20		ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	39000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	2900		ug/L	15	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	47		ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	7900	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10	U	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	15000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25	U	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	59	J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	120	J, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46T1 BONNER
D No: 46T1 SHEALY

Sample ID: RP-TW-08
Station ID:

Lab ID: C074201-15
Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	10/19/07	10/19/07	CLP ILM05.4 AS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

December 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0029, Red Panther Chemical Co
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	CLP BNA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Report Narrative for Work Order C074201, Project: 08-0029
Data Review and Validation Report
Site Name: Red Panther Chemical, Clarksdale, MS
Case No. 36903
ELEMENT Nos. C074201-01 - C074201-20
Sampling Dates: 10/07 - 11/07

Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS
Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of fifteen water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below.

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in

sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Organic Analysis: Shealy Environmental, West Columbia, SC

The ESAT Work Team reviewed data for eighteen water samples analyzed for volatiles, semivolatile extractables, aroclors, and pesticides, per CLP statement of work SOM01.2. The samples were received by the laboratory between 10/10/07 and 10/12/07, and the data package was received on 11/05/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The laboratory scored within warning limits for all spiked compounds in the water volatile PES except for 1,2,3-trichlorobenzene which was scored as action low and 4-methyl-2-pentanone and 1,4-dioxane which were both scored as warning low. Also the laboratory reported the presence of both methylene chloride and trichloroethene which were both scored as PES contaminants at less than the CRQL. The laboratory did not analyze this PES concurrently with the actual field samples, and it was not used to qualify data.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results associated with the volatile DMC 1,2-dichloropropane-d6, which had a low recovery, were "J" qualified in sample C074201-03 (D46W6). Low semivolatile extractable DMC recoveries were observed in samples C074201-14 (D46T0), C074201-15 (D46T1), C074201-03 (D46W6), C074201-04 (D46W7), C074201-05 (D46T2), C074201-07 (D46T9), C074201-08 (D46W4), and C074201-10(D46W1). All analytes associated with these DMCs were "J" qualified unless the DMC recovery was less than 10% ("R" qualified).

All pesticide surrogate recoveries (<10% for decachlorobiphenyl) were low in sample C074201-02 (D46W2) for both the original analysis and the reextraction. All positive pesticide results were "J" qualified and all nondetected pesticide results were "R" qualified in this sample. Low decachlorobiphenyl recoveries were reported for samples C074201-03 (D46W6), C074201-05 (D46T2), C074201-06 (D46T8), C074201-09 (D46W0), C074201-11 (D46W3), C074201-14 (D46T0), and C074201-15 (D46T1). The laboratory reextracted all of these samples outside technical holding time limits, except for C074201-05 (D46T2) due to insufficient sample volume remaining, because the associated method blank (PBLK14) also had low decachlorobiphenyl recovery. Similar recoveries were reported for the reextractions. All positive results and all nondetect pesticide results were "J" qualified whenever these low recoveries exceeded 10% in these seven samples. Nondetect results were "R" qualified whenever surrogate recoveries were less than 10%.

All aroclor results were "J" qualified in samples C074201-08 (D46W4), C074201-14 (D46T0) and C074201-15 (D46T1) due to low recoveries for the surrogate decachlorobiphenyl. All aroclor results were "R" qualified in sample C074201-05 (D46T2) due to decachlorobiphenyl recoveries of less than 10%. The SOW does not require

any corrective action so long as one aroclor surrogate recovery is acceptable.

The native sample (unspiked C074201-15/D46T1) pesticide chromatogram did not resemble those for the MS or MSD. For example, the beta-BHC which was not spiked was reported as "0.050 ug/l U" in the native sample but as 7.3 and 6.8 ug/l in the MS and MSD respectively. The chromatograms for the aroclor fraction of the same sample (both native and MS/MSD) appeared to be more consistent with a high BHC result. However, a definitive conclusion can not be made because the laboratory used different columns than those used for pesticides. Upon discussions with the site's Project Manager and laboratory personnel it was determined that these water samples had unusually large amounts of particulates present and it was plausible that sample non-homogeneity could be the source of these differences. However, the reviewer could not rule out the possibility of samples being crossed in the field or at the laboratory. Effects due to possible sample non-homogeneity were not apparent in the volatile or semivolatile analyses. Therefore, all groundwater pesticide results were "J" qualified.

The volatile analyte 1,4-dioxane responded poorly (RRF < 0.0050) in an ending calibration check standard. All associated sample results were "R" qualified.

Two volatile and six semivolatile extractable compounds exhibited erratic continuing calibration performance necessitating that all associated results be "J" qualified.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co **Contract Lab Case: 36903**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-RB-01	C074201-13	46S8	46S8	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte low in continuing calibration verification standard
QC-2	Analyte high in continuing calibration verification standard
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-OMW-01 au

Contract Lab Case: 36903

MD No: 46W6 BONNER

D No: 46W6 SHEALY

Sample ID: RP-MW-01

Station ID:

Lab ID: C074201-03

Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0 U	J, QC-2	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-OMW-01(a)

Contract Lab Case: 36903

Sample ID: RP-MW-01

Lab ID: C074201-03

MD No: 46W6 BONNER

Station ID:

Matrix: Groundwater

D No: 46W6 SHEALY

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U, J, QS-3		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0 U, J, QS-3		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, J, QS-3		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0 U, J, QS-3		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, J, QS-3		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0 U, J, QC-1		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U, J, QS-3		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

RP-OMW-01 aw

Sample ID: RP-MW-01
Station ID:

Lab ID: C074201-03
Matrix: Groundwater

Contract Lab Case: 36903
MD No: 46W6 BONNER
D No: 46W6 SHEALY

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/16/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-OMW-02 (AW)

Contract Lab Case: 36903
MD No: 46W7 BONNER
D No: 46W7 SHEALY

Sample ID: RP-MW-02
Station ID:
Lab ID: C074201-04
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U, J, QC-2	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-OMW-02 (a)

Contract Lab Case: 36903

Sample ID: RP-MW-02

Lab ID: C074201-04

MD No: 46W7 BONNER

Station ID:

Matrix: Groundwater

D No: 46W7 SHEALY

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U, J, QC-1	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-OMW-02 (all)

Contract Lab Case: 36903
MD No: 46W7 BONNER
D No: 46W7 SHEALY

Sample ID: RP-MW-02
Station ID:

Lab ID: C074201-04
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10 U		ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
108-95-2	Phenol	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0 U		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 U	J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U	J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0 U	J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U	J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0 U	J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0 U	J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U	J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0 U	J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U	J, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U	J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U J QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
60-57-1	Dieldrin	8	NJ, CLP15	ug/L		10/17/07	10/24/07	CLP SOM01.2 B
789-02-6	o,p'-DDT	9	NJ, CLP15	ug/L		10/17/07	10/24/07	CLP SOM01.2 B
78-48-8	S,S,S-Tributyl phosphorotrithioate	5	NJ, CLP15	ug/L		10/17/07	10/24/07	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	60	J, CLP15	ug/L		10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-94-1	3,3-Dichlorobenzidine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W4 BONNER

D No: 46W4 SHEALY

Sample ID: RP-TW-09

Station ID:

Lab ID: C074201-08

Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W4 BONNER

D No: 46W4 SHEALY

Sample ID: RP-TW-09

Station ID:

Lab ID: C074201-08

Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W4 BONNER

D No: 46W4 SHEALY

Sample ID: RP-TW-09

Station ID:

Lab ID: C074201-08

Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0 U, J, QS-3		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W1 BONNER

D No: 46W1 SHEALY

Sample ID: RP-TW-04
Station ID:

Lab ID: C074201-10
Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10 U		ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W1 BONNER

D No: 46W1 SHEALY

Sample ID: RP-TW-04

Station ID:

Lab ID: C074201-10

Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W1 BONNER
D No: 46W1 SHEALY

Sample ID: RP-TW-04
Station ID:

Lab ID: C074201-10
Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/17/07	10/24/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0 U	J, QC-2	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U, J, QC-1	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U, J, QS-3		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0 U, J, QS-3		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0 U, J, QC-2		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0 U, J, QS-3		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U, J, QC-1	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/L		10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0 U	J, QC-2	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10 U		ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-12-7	Anthracene	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U		ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U, J, QC-1	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
Tentatively Identified Compounds:								
51218-45-2	Metolachlor	10	NJ, CLP15	ug/L		10/15/07	10/18/07	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	100	J, CLP15	ug/L		10/15/07	10/18/07	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

December 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 08-0029, Red Panther Chemical Co
Superfund Remedial

FROM: Charlie Appleby
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Volatile Organics (VOA)	
Volatile organic compounds	CLP VOA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Report Narrative for Work Order C074201, Project: 08-0029
Data Review and Validation Report
Site Name: Red Panther Chemical, Clarksdale, MS
Case No. 36903
ELEMENT Nos. C074201-01 - C074201-20
Sampling Dates: 10/07 - 11/07

Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS
Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of fifteen water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below.

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in

sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Organic Analysis: Shealy Environmental, West Columbia, SC

The ESAT Work Team reviewed data for eighteen water samples analyzed for volatiles, semivolatile extractables, aroclors, and pesticides, per CLP statement of work SOM01.2. The samples were received by the laboratory between 10/10/07 and 10/12/07, and the data package was received on 11/05/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The laboratory scored within warning limits for all spiked compounds in the water volatile PES except for 1,2,3-trichlorobenzene which was scored as action low and 4-methyl-2-pentanone and 1,4-dioxane which were both scored as warning low. Also the laboratory reported the presence of both methylene chloride and trichloroethene which were both scored as PES contaminants at less than the CRQL. The laboratory did not analyze this PES concurrently with the actual field samples, and it was not used to qualify data.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results associated with the volatile DMC 1,2-dichloropropane-d6, which had a low recovery, were "J" qualified in sample C074201-03 (D46W6). Low semivolatile extractable DMC recoveries were observed in samples C074201-14 (D46T0), C074201-15 (D46T1), C074201-03 (D46W6), C074201-04 (D46W7), C074201-05 (D46T2), C074201-07 (D46T9), C074201-08 (D46W4), and C074201-10(D46W1). All analytes associated with these DMCs were "J" qualified unless the DMC recovery was less than 10% ("R" qualified).

All pesticide surrogate recoveries (<10% for decachlorobiphenyl) were low in sample C074201-02 (D46W2) for both the original analysis and the reextraction. All positive pesticide results were "J" qualified and all nondetected pesticide results were "R" qualified in this sample. Low decachlorobiphenyl recoveries were reported for samples C074201-03 (D46W6), C074201-05 (D46T2), C074201-06 (D46T8), C074201-09 (D46W0), C074201-11 (D46W3), C074201-14 (D46T0), and C074201-15 (D46T1). The laboratory reextracted all of these samples outside technical holding time limits, except for C074201-05 (D46T2) due to insufficient sample volume remaining, because the associated method blank (PBLK14) also had low decachlorobiphenyl recovery. Similar recoveries were reported for the reextractions. All positive results and all nondetect pesticide results were "J" qualified whenever these low recoveries exceeded 10% in these seven samples. Nondetect results were "R" qualified whenever surrogate recoveries were less than 10%.

All aroclor results were "J" qualified in samples C074201-08 (D46W4), C074201-14 (D46T0) and C074201-15 (D46T1) due to low recoveries for the surrogate decachlorobiphenyl. All aroclor results were "R" qualified in sample C074201-05 (D46T2) due to decachlorobiphenyl recoveries of less than 10%. The SOW does not require

any corrective action so long as one aroclor surrogate recovery is acceptable.

The native sample (unspiked C074201-15/D46T1) pesticide chromatogram did not resemble those for the MS or MSD. For example, the beta-BHC which was not spiked was reported as "0.050 ug/l U" in the native sample but as 7.3 and 6.8 ug/l in the MS and MSD respectively. The chromatograms for the aroclor fraction of the same sample (both native and MS/MSD) appeared to be more consistent with a high BHC result. However, a definitive conclusion can not be made because the laboratory used different columns than those used for pesticides. Upon discussions with the site's Project Manager and laboratory personnel it was determined that these water samples had unusually large amounts of particulates present and it was plausible that sample non-homogeneity could be the source of these differences. However, the reviewer could not rule out the possibility of samples being crossed in the field or at the laboratory. Effects due to possible sample non-homogeneity were not apparent in the volatile or semivolatile analyses. Therefore, all groundwater pesticide results were "J" qualified.

The volatile analyte 1,4-dioxane responded poorly (RRF < 0.0050) in an ending calibration check standard. All associated sample results were "R" qualified.

Two volatile and six semivolatile extractable compounds exhibited erratic continuing calibration performance necessitating that all associated results be "J" qualified.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co **Contract Lab Case: 36903**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-01	C074201-06	46T8	46T8	Groundwater	10/11/07 12:40	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-03	C074201-09	46W0	46W0	Groundwater	10/10/07 12:40	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-TW-07	C074201-11	46W3	46W3	Groundwater	10/10/07 12:35	10/12/07 14:42
RP-RB-01	C074201-13	46S8	46S8	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42
RP-TB-02	C074201-16		46T4	Trip Blank - Water	10/9/07 14:50	10/12/07 14:42
RP-TB-03	C074201-17		46T5	Trip Blank - Water	10/10/07 15:00	10/12/07 14:42
RP-TW-05A	C074201-18		46W8	Groundwater	10/10/07 08:15	10/12/07 14:42
RP-TB-04	C074201-19		46T6	Trip Blank - Water	10/11/07 14:00	10/12/07 14:42
RP-TB-01	C074201-20		46S9	Trip Blank - Water	10/8/07 17:30	10/12/07 14:42

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP06	PE sample recovery less than control limits.
CLP07	PE sample recovery outside warning limits.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte low in continuing calibration verification standard
QC-2	Analyte high in continuing calibration verification standard
QC-3	Analyte calibration criteria not met
QS-3	Surrogate recovery is lower than established control limits.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-OMW-01 (au)

Contract Lab Case: 36903
MD No: 46W6 BONNER
D No: 46W6 SHEALY

Sample ID: RP-MW-01
Station ID:

Lab ID: C074201-03
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U, J, QS-3	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U J QS-3	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-DMW-01 (a2)

Contract Lab Case: 36903
MD No: 46W6 BONNER
D No: 46W6 SHEALY

Sample ID: RP-MW-01
Station ID:

Lab ID: C074201-03
Matrix: Groundwater

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U	J, QS-3	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	J, QS-3	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

RP-OMW-02

Sample ID: RP-MW-02

Station ID:

Lab ID: C074201-04

Matrix: Groundwater

Contract Lab Case: 36903

MD No: 46W7 BONNER

D No: 46W7 SHEALY

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical ~~Co~~ RP-OMW-02 (also)

Sample ID: RP-MW-02

Station ID:

Lab ID: C074201-04

Matrix: Groundwater

Contract Lab Case: 36903

MD No: 46W7 BONNER

D No: 46W7 SHEALY

Date Collected: 10/9/07 15:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	3.1	J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	0.79	J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T2 BONNER

D No: 46T2 SHEALY

Sample ID: RP-DS-01

Station ID:

Lab ID: C074201-05

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	0.65	J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46T8 BONNER
D No: 46T8 SHEALY

Sample ID: RP-TW-01
Station ID:

Lab ID: C074201-06
Matrix: Groundwater

Date Collected: 10/11/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	20	U	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T8 BONNER

D No: 46T8 SHEALY

Sample ID: RP-TW-01

Station ID:

Lab ID: C074201-06

Matrix: Groundwater

Date Collected: 10/11/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m-and/or p-)Xylene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3		ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Sample ID: RP-TW-02

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W4 BONNER

D No: 46W4 SHEALY

Sample ID: RP-TW-09

Station ID:

Lab ID: C074201-08

Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W4 BONNER

D No: 46W4 SHEALY

Sample ID: RP-TW-09

Station ID:

Lab ID: C074201-08

Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W0 BONNER

D No: 46W0 SHEALY

Sample ID: RP-TW-03

Station ID:

Lab ID: C074201-09

Matrix: Groundwater

Date Collected: 10/10/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W0 BONNER

D No: 46W0 SHEALY

Sample ID: RP-TW-03

Station ID:

Lab ID: C074201-09

Matrix: Groundwater

Date Collected: 10/10/07 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W1 BONNER

D No: 46W1 SHEALY

Sample ID: RP-TW-04

Station ID:

Lab ID: C074201-10

Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W1 BONNER

D No: 46W1 SHEALY

Sample ID: RP-TW-04

Station ID:

Lab ID: C074201-10

Matrix: Groundwater

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W3 BONNER

D No: 46W3 SHEALY

Sample ID: RP-TW-07

Station ID:

Lab ID: C074201-11

Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	26	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	110	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	0.76 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	1.3 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	1.9 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	3.0 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46W3 BONNER

D No: 46W3 SHEALY

Sample ID: RP-TW-07

Station ID:

Lab ID: C074201-11

Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U J QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	12		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	12		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.3 J, CLP01		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	0.52 J, CLP01		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
526-73-8	Benzene, 1,2,3-trimethyl-	50	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
95-93-2	Benzene, 1,2,4,5-tetramethyl-	6	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	6	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
611-14-3	Benzene, 1-ethyl-2-methyl-	30	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
620-14-4	Benzene, 1-ethyl-3-methyl-	80	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	6	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
873-49-4	Benzene, cyclopropyl-	30	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46W3 BONNER
D No: 46W3 SHEALY

Sample ID: RP-TW-07
Station ID:

Lab ID: C074201-11
Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
103-65-1	Benzene, propyl-	10	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
91-20-3	Naphthalene	30	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
90-12-0	Naphthalene, 1-methyl-	10	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
91-57-6	Naphthalene, 2-methyl-	20	NJ, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
R4-6501	Unidentified Compound(s)	8	J, CLP15	ug/L		10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46S8 BONNER

D No: 46S8 SHEALY

Sample ID: RP-RB-01

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.60	J, CLP01	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	2.3	J, CLP01	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903
MD No: 46S8 BONNER
D No: 46S8 SHEALY

Sample ID: RP-RB-01
Station ID:

Lab ID: C074201-13
Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T0 BONNER

D No: 46T0 SHEALY

Sample ID: RP-TW-06

Station ID:

Lab ID: C074201-14

Matrix: Groundwater

Date Collected: 10/8/07 16:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-) Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No: 46T1 BONNER

D No: 46T1 SHEALY

Sample ID: RP-TW-08

Station ID:

Lab ID: C074201-15

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-02

Lab ID: C074201-16

D No: 46T4 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/9/07 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-02

Station ID:

Lab ID: C074201-16

Matrix: Trip Blank - Water

D No: 46T4 SHEALY

Date Collected: 10/9/07 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-03

Lab ID: C074201-17

D No: 46T5 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/10/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-03

Lab ID: C074201-17

D No: 46T5 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/10/07 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U		ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

RP-TW-05 (aw)

Contract Lab Case: 36903

MD No:

Sample ID: RP-TW-05A

Lab ID: C074201-18

D No: 46W8 SHEALY

Station ID:

Matrix: Groundwater

Date Collected: 10/10/07 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	0.69	J, CLP01	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U	ug/L	100	10/15/07	10/15/07	CLP SOM01.2 V
67-64-1	Acetone	60		ug/L	10	10/15/07	10/15/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
67-66-3	Chloroform	0.77	J, CLP01	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co
RP-TW-05 (arw)

Contract Lab Case: 36903

MD No:

Sample ID: RP-TW-05A

Lab ID: C074201-18

D No: 46W8 SHEALY

Station ID:

Matrix: Groundwater

Date Collected: 10/10/07 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U J, QC-2	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/15/07	10/15/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/15/07	10/15/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/15/07	10/15/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
108-88-3	Toluene	0.52	J, CLP01	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	7	J, CLP15	ug/L		10/15/07	10/15/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-04

Lab ID: C074201-19

D No: 46T6 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/11/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-04

Lab ID: C074201-19

D No: 46T6 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/11/07 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-01

Lab ID: C074201-20

D No: 46S9 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/8/07 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U, R, CLP06	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP07, QC-3	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 08-0029

Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

MD No:

Sample ID: RP-TB-01

Lab ID: C074201-20

D No: 46S9 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/8/07 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U	J, QC-1	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U	J, CLP07	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U		ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5 U		ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-31009-1

SDG Number: 31009

Job Description: Red Panther Chemical Site - Clarksdale,

For:
TN & Associates
1220 Kennestone Circle
Suite D
Marietta, GA 30066

Attention: Ms. Allyson Warrington

Terry Hornsby

Terry Hornsby
Project Manager I
terry.hornsby@testamericainc.com
10/31/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Description	Lab Location	Method	Preparation Method
Matrix Water			
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS	TAL SAV	EPA 525.2	
Determination of Semivolatile Organic Compounds in	TAL SAV		EPA 525.2
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography	TAL SAV	EPA-01 504.1	
EDB, DBCP, and 123TCP in Water by Microextraction	TAL SAV		EPA-DW 504.1
Chlorinated Pesticides in Water by GC/ECD	TAL SAV	EPA 508	
Separatory funnel extraction for method 508	TAL SAV		EPA 508
Chlorinated Acids in Water by Gas Chromatography	TAL SAV	EPA-01 515.1	
Chlorinated Acids in Water by Gas Chromatography	TAL SAV		EPA-DW 515.1
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081A_8082	
Continuous Liquid-Liquid Extraction	TAL SAV		SW846 3520C
ICP Metals by 200.7	TAL SAV	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
ICPMS Metals by 200.8	TAL SAV	EPA 200.8	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
Cyanide, Total (Semi-Automated Colorimetry)	TAL SAV	MCAWW 335.4	
Distillation/Cyanide	TAL SAV		Distillation

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-31009-1TB	RP-TB-02	Drinking Water	10/09/2007 0000	10/11/2007 0925
680-31009-2	RP-MW-04	Drinking Water	10/09/2007 1530	10/11/2007 0925

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-TB-02**

Lab Sample ID: 680-31009-1TB
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 0000
Date Received: 10/11/2007 0925

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/17/2007 1346
Date Prepared: N/A

Analysis Batch: 680-88630

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6858.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	85	70 - 130
4-Bromofluorobenzene	84	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/17/2007 1405
Date Prepared: N/A

Analysis Batch: 680-88630

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6859.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	86	70 - 130
4-Bromofluorobenzene	84	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: 525.2
Preparation: 525.2
Dilution: 1.0
Date Analyzed: 10/12/2007 1729
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135

Instrument ID: Mass Spec LC - R
Lab File ID: R4330.D
Initial Weight/Volume: 1005 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	0.20	U	0.060	0.20
Atrazine	0.20	U	0.043	0.20
Simazine	0.50	U	0.076	0.50
Benzo[a]pyrene	0.20	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	0.87	J	0.50	2.0
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5
Endrin	0.50	U	0.12	0.50
Hexachlorobenzene	0.20	U	0.032	0.20
Hexachlorocyclopentadiene	2.0	U	0.056	2.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	106	70 - 130
2-Nitro-m-xylene	113	70 - 130
Perylene-d12	86	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1
Preparation: 504.1
Dilution: 1.0
Date Analyzed: 10/15/2007 1946
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150042.d
Initial Weight/Volume: 37.01 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	U *	0.0033	0.019
Ethylene Dibromide	0.019	U	0.0040	0.019

Surrogate	%Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	112	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

508 Chlorinated Pesticides in Water by GC/ECD

Method: 508
Preparation: 508
Dilution: 1.0
Date Analyzed: 10/15/2007 2300
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15027.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2.5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlordane (technical)	0.25	U	0.026	0.25
PCB-1016	0.50	U	0.067	0.50
PCB-1221	0.50	U	0.096	0.50
PCB-1232	0.50	U	0.052	0.50
PCB-1242	0.50	U	0.086	0.50
PCB-1248	0.50	U	0.052	0.50
PCB-1254	0.50	U	0.057	0.50
PCB-1260	0.50	U	0.046	0.50
Toxaphene	2.5	U	0.25	2.5
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	106	70 - 130
Tetrachloro-m-xylene	97	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

515.1 Chlorinated Acids in Water by Gas Chromatography

Method: 515.1
Preparation: 515.1
Dilution: 1.0
Date Analyzed: 10/16/2007 2220
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16021.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Pentachlorophenol	1.0	U	0.025	1.0

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	127	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/15/2007 2045
Date Prepared: 10/12/2007 1205

Analysis Batch: 680-88389
Prep Batch: 680-88126

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15020.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.094	U	0.0056	0.094
4,4'-DDE	0.094	U	0.0092	0.094
4,4'-DDT	0.094	U	0.014	0.094
Aldrin	0.047	U	0.0057	0.047
alpha-BHC	0.047	U	0.0076	0.047
beta-BHC	0.047	U	0.0077	0.047
Chlordane (technical)	0.47	U	0.046	0.47
delta-BHC	0.047	U	0.0065	0.047
Dieldrin	0.094	U	0.0074	0.094
Endosulfan I	0.047	U	0.0052	0.047
Endosulfan II	0.094	U	0.0047	0.094
Endosulfan sulfate	0.094	U	0.0066	0.094
Endrin	0.094	U	0.0074	0.094
Endrin aldehyde	0.094	U	0.0085	0.094
Endrin ketone	0.094	U	0.0086	0.094
gamma-BHC (Lindane)	0.047	U	0.0056	0.047
Heptachlor	0.047	U	0.0042	0.047
Heptachlor epoxide	0.047	U	0.0066	0.047
Methoxychlor	0.47	U	0.022	0.47
Toxaphene	4.7	U	1.2	4.7

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	79	14 - 115
Tetrachloro-m-xylene	57	35 - 120

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Client Sample ID: RP-MW-04

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

200.7 Rev 4.4 ICP Metals by 200.7

Method: 200.7 Rev 4.4
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/15/2007 1800
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	28	200
Iron	260		26	50
Silver	10	U	0.70	10
Calcium	24000		25	500
Copper	54		2.2	20
Manganese	48		2.2	10
Nickel	40	U	2.0	40
Zinc	100		4.7	20

200.8 ICPMS Metals by 200.8

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 1900
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.15	J	0.082	0.50
Barium	110		0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.082	J	0.058	0.10
Chromium	1.4	B	0.24	1.0
Copper	56	B	0.26	1.0
Lead	39	B	0.054	0.30
Mercury	0.099	J B	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/22/2007 1425
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.61		0.16	0.50

General Chemistry

Client Sample ID: **RP-MW-04**

Lab Sample ID: 680-31009-2
Client Matrix: Drinking Water

Date Sampled: 10/09/2007 1530
Date Received: 10/11/2007 0925

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	335.4
	Anly Batch: 680-88262	Date Analyzed		10/12/2007 1409			
	Prep Batch: 680-88118	Date Prepared:		10/12/2007 0801			

DATA REPORTING QUALIFIERS

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
LCS 680-88630/3		91	98
MB 680-88630/4		91	89
680-31009-1	RP-TB-02	85	84
680-31009-2	RP-MW-04	86	84

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Client Matrix: Water

Lab Sample ID	Client Sample ID	2NMX %Rec	PD12 %Rec	TPP %Rec
LCS 680-88135/7-A		107	85	99
MB 680-88135/6-A		108	82	105
680-31009-2	RP-MW-04	113	86	106

Surrogate		Acceptance Limits
2NMX	2-Nitro-m-xylene	70 - 130
PD12	Perylene-d12	70 - 130
TPP	Triphenylphosphate	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCP1 %Rec	TCP2 %Rec
LCS 680-88289/5-A			113
LCSD 680-88289/6-A		109	
MB 680-88289/4-A			94
680-31009-2	RP-MW-04		112

Surrogate		Acceptance Limits
TCP	1,2,3-Trichloropropane-(Surr)	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX2 %Rec
LCS 680-88279/8-A			107	99
MB 680-88279/6-A		114		103
680-31009-2	RP-MW-04		106	97

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
TCX	Tetrachloro-m-xylene	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
LCS 680-88269/16-A			108
LCSD 680-88269/17-C			109
MB 680-88269/15-A			118
680-31009-2	RP-MW-04	127	

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX2 %Rec
LCS 680-88126/7-A		73		64
MB 680-88126/6-A			79	57
680-31009-2	RP-MW-04		79	57

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	14 - 115
TCX	Tetrachloro-m-xylene	35 - 120

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88630

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-88630/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 1306
Date Prepared: N/A

Analysis Batch: 680-88630
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2290.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	89	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Lab Control Spike - Batch: 680-88630

Method: 524.2
Preparation: N/A

Lab Sample ID: LCS 680-88630/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 1147
Date Prepared: N/A

Analysis Batch: 680-88630
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2289.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chlorobenzene	20.0	19.7	98	70 - 130	
cis-1,2-Dichloroethene	20.0	19.8	99	70 - 130	
1,2-Dichlorobenzene	20.0	17.4	87	70 - 130	
1,4-Dichlorobenzene	20.0	17.2	86	70 - 130	
1,1-Dichloroethene	20.0	19.9	100	70 - 130	
1,2-Dichloropropane	20.0	20.7	104	70 - 130	
Ethylbenzene	20.0	18.5	93	70 - 130	
Methylene Chloride	20.0	19.7	99	70 - 130	
Tetrachloroethene	20.0	20.0	100	70 - 130	
Toluene	20.0	19.8	99	70 - 130	
trans-1,2-Dichloroethene	20.0	20.2	101	70 - 130	
1,2,4-Trichlorobenzene	20.0	18.5	92	70 - 130	
1,1,1-Trichloroethane	20.0	18.9	95	70 - 130	
Vinyl chloride	20.0	19.4	97	70 - 130	
Xylenes, Total	60.0	54.4	91	70 - 130	
1,2-Dichloroethane	20.0	20.6	103	70 - 130	
Carbon tetrachloride	20.0	17.8	89	70 - 130	
1,1,2-Trichloroethane	20.0	20.2	101	70 - 130	
Benzene	20.0	20.5	103	70 - 130	
Styrene	20.0	18.0	90	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	98	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88135

Method: 525.2
Preparation: 525.2

Lab Sample ID: MB 680-88135/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1514
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R4324.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Alachlor	0.20	U	0.060	0.20
Atrazine	0.20	U	0.043	0.20
Simazine	0.50	U	0.076	0.50
Benzo[a]pyrene	0.20	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	2.0	U	0.50	2.0
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5
Endrin	0.50	U	0.12	0.50
Hexachlorobenzene	0.20	U	0.032	0.20
Hexachlorocyclopentadiene	2.0	U	0.056	2.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	105	70 - 130
2-Nitro-m-xylene	108	70 - 130
Perylene-d12	82	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Lab Control Spike - Batch: 680-88135

Method: 525.2
Preparation: 525.2

Lab Sample ID: LCS 680-88135/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1536
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R4325.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alachlor	5.00	4.26	85	70 - 130	
Atrazine	5.00	4.80	96	70 - 130	
Simazine	5.00	4.51	90	70 - 130	
Benzo[a]pyrene	5.00	4.12	82	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.71	94	70 - 130	
Di(2-ethylhexyl)adipate	5.00	4.70	94	70 - 130	
Endrin	5.00	4.57	91	70 - 130	
Hexachlorobenzene	5.00	4.13	83	70 - 130	
Hexachlorocyclopentadiene	5.00	4.96	99	70 - 130	

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	99	70 - 130
2-Nitro-m-xylene	107	70 - 130
Perylene-d12	85	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88289

Method: 504.1
Preparation: 504.1

Lab Sample ID: MB 680-88289/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1655
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150019.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
1,2-Dibromo-3-Chloropropane	0.020	U	0.0035	0.020
Ethylene Dibromide	0.020	U	0.0042	0.020

Surrogate	% Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	94	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88289

Method: 504.1
Preparation: 504.1

LCS Lab Sample ID: LCS 680-88289/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1702
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150020.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-88289/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1709
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150021.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dibromo-3-Chloropropane	111	133	70 - 130	18	30		*
Ethylene Dibromide	105	101	70 - 130	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	113	109	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88279

Method: 508
Preparation: 508

Lab Sample ID: MB 680-88279/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 2104
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15021.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	0.25	U	0.026	0.25
PCB-1016	0.50	U	0.067	0.50
PCB-1221	0.50	U	0.096	0.50
PCB-1232	0.50	U	0.052	0.50
PCB-1242	0.50	U	0.086	0.50
PCB-1248	0.50	U	0.052	0.50
PCB-1254	0.50	U	0.057	0.50
PCB-1260	0.50	U	0.046	0.50
Toxaphene	2.5	U	0.25	2.5
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	114	70 - 130
Tetrachloro-m-xylene	103	70 - 130

Lab Control Spike - Batch: 680-88279

Method: 508
Preparation: 508

Lab Sample ID: LCS 680-88279/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 2143
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15023.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	11.9	119	70 - 130	
PCB-1260	10.0	12.2	122	70 - 130	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	107	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88269

Method: 515.1
Preparation: 515.1

Lab Sample ID: MB 680-88269/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2007 1703
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16006.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Pentachlorophenol	1.0	U	0.025	1.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	118	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88269

Method: 515.1
Preparation: 515.1

LCS Lab Sample ID: LCS 680-88269/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2007 1724
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-88269/17-C
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2007 1745
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pentachlorophenol	79	71	70 - 130	9	30	J	J

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	108	109	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88126

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-88126/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1809
Date Prepared: 10/12/2007 1205

Analysis Batch: 680-88389
Prep Batch: 680-88126
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15012.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	0.10
4,4'-DDT	0.10	U	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U	0.0081	0.050
beta-BHC	0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	U	0.0069	0.050
Dieldrin	0.10	U	0.0078	0.10
Endosulfan I	0.050	U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	U	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	U	0.0070	0.050
Methoxychlor	0.50	U	0.023	0.50
Toxaphene	5.0	U	1.3	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	79	14 - 115
Tetrachloro-m-xylene	57	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Lab Control Spike - Batch: 680-88126

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-88126/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1829
Date Prepared: 10/12/2007 1205

Analysis Batch: 680-88389
Prep Batch: 680-88126
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15013.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.196	0.168	85	37 - 179	
4,4'-DDE	0.204	0.155	76	33 - 142	
4,4'-DDT	0.200	0.210	105	27 - 141	
Aldrin	0.103	0.0607	59	32 - 114	
alpha-BHC	0.107	0.0582	54	29 - 112	
beta-BHC	0.109	0.0732	67	15 - 204	
delta-BHC	0.105	0.0662	63	25 - 123	
Dieldrin	0.200	0.169	84	45 - 137	
Endosulfan I	0.100	0.0766	77	31 - 134	
Endosulfan II	0.200	0.169	84	24 - 144	
Endosulfan sulfate	0.203	0.184	91	44 - 128	
Endrin	0.203	0.177	87	38 - 144	
Endrin aldehyde	0.201	0.257	128	37 - 135	
Endrin ketone	0.201	0.188	94	41 - 155	
gamma-BHC (Lindane)	0.100	0.0625	62	31 - 118	
Heptachlor	0.100	0.0616	62	30 - 133	
Heptachlor epoxide	0.100	0.0781	78	34 - 126	
Methoxychlor	0.201	0.214	107	10 - 243	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	14 - 115
Tetrachloro-m-xylene	64	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88095

Method: 200.7 Rev 4.4
Preparation: 200

Lab Sample ID: MB 680-88095/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1719
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095
Units: ug/L

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	28	200
Iron	50	U	26	50
Silver	10	U	0.70	10
Calcium	500	U	25	500
Copper	20	U	2.2	20
Manganese	10	U	2.2	10
Nickel	40	U	2.0	40
Zinc	20	U	4.7	20

Lab Control Spike - Batch: 680-88095

Method: 200.7 Rev 4.4
Preparation: 200

Lab Sample ID: LCS 680-88095/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1723
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095
Units: ug/L

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1910	96	85 - 115	
Iron	1000	1010	101	85 - 115	
Silver	50.0	50.0	100	85 - 115	
Calcium	5000	5200	104	85 - 115	
Copper	250	249	100	85 - 115	
Manganese	500	527	105	85 - 115	
Nickel	500	518	104	85 - 115	
Zinc	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-88097/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1809
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	2.0	U	0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	0.96	J	0.24	1.0
Copper	0.31	J	0.26	1.0
Lead	0.082	J	0.054	0.30
Mercury	0.080	J	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method Blank - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-88097/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2007 1335
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.50	U	0.16	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Lab Control Spike - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-88097/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1815
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	10.0	8.82	88	85 - 115	
Barium	20.0	19.0	95	85 - 115	
Beryllium	10.0	9.24	92	85 - 115	
Cadmium	10.0	8.64	86	85 - 115	
Chromium	20.0	19.3	96	85 - 115	
Copper	20.0	17.9	90	85 - 115	
Lead	10.0	10.0	100	85 - 115	
Mercury	1.00	0.948	95	85 - 115	
Thallium	8.00	7.72	97	85 - 115	

Lab Control Spike - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-88097/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2007 1340
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	22	108	85 - 115	
Selenium	20.0	21	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88097

Method: 200.8
Preparation: 200

MS Lab Sample ID:	680-31009-2	Analysis Batch:	680-88946	Instrument ID:	ICP MS
Client Matrix:	Water	Prep Batch:	680-88097	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/18/2007 1917			Final Weight/Volume:	50 mL
Date Prepared:	10/11/2007 1711				

MSD Lab Sample ID:	680-31009-2	Analysis Batch:	680-88946	Instrument ID:	ICP MS
Client Matrix:	Water	Prep Batch:	680-88097	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/18/2007 1923			Final Weight/Volume:	50 mL
Date Prepared:	10/11/2007 1711				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	92	92	70 - 130	0	20		
Barium	122	88	70 - 130	5	20	4	4
Beryllium	91	91	70 - 130	1	20		
Cadmium	84	85	70 - 130	1	20		
Chromium	94	97	70 - 130	3	20	B	B
Copper	95	242	70 - 130	33	20	B	B F
Lead	111	87	70 - 130	5	20	B	B
Mercury	97	100	70 - 130	3	20	B	B
Thallium	93	95	70 - 130	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88097

Method: 200.8
Preparation: 200

MS Lab Sample ID:	680-31009-2	Analysis Batch: 680-88946	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88097	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1442		Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		

MSD Lab Sample ID:	680-31009-2	Analysis Batch: 680-88946	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88097	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1448		Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	81	86	70 - 130	5	20		
Selenium	80	80	70 - 130	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1
Sdg Number: 31009

Method Blank - Batch: 680-88118

Method: 335.4
Preparation: Distillation

Lab Sample ID: MB 680-88118/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1348
Date Prepared: 10/12/2007 0801

Analysis Batch: 680-88262
Prep Batch: 680-88118
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.010	U	0.0050	0.010

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88118

Method: 335.4
Preparation: Distillation

LCS Lab Sample ID: LCS 680-88118/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1348
Date Prepared: 10/12/2007 0801

Analysis Batch: 680-88262
Prep Batch: 680-88118
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-88118/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1349
Date Prepared: 10/12/2007 0801

Analysis Batch: 680-88262
Prep Batch: 680-88118
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide, Total	103	100	90 - 110	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 73778

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT STL®

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stlinc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 200518-4003	PROJECT NO.	PROJECT LOCATION (STATE): NC	PAGE: 1 OF 1
STL (LAB) PROJECT MANAGER: Abbie Page	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY: ●
CLIENT (SITE) PM: Allyson Warrington	CLIENT PHONE: 678 355 5550	CLIENT FAX: 678 355 5545	DATE DUE: 10/10/07
CLIENT NAME: TRC Assoc.	CLIENT E-MAIL: awarrington@trcinc.com		EXPEDITED REPORT DELIVERY (SURCHARGE): ○
CLIENT ADDRESS: 1220 Kennestone Cir, Suite D	Marietta, GA 30066		DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Sulfur 505 Fix	524.2 Aq.	MW5 200.7/200.8	VOCs SW8260/8021	Lead 335.4	Pb 515.1	Pb 525.2	Sulfur 504.1 Thiosulfate	NUMBER OF CONTAINERS SUBMITTED	REMARKS
10/1/07	—	RP-TB-02	G	X					3								
10/1/07	1530	RP-MW-04	G	X				2	3	1	2	1	2	2	3		
			G	X													

1.8

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
				10/1/07	1500			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	10/1/07	1500						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
	10/1/07	0925	YES ○ NO ○		680 31009	

KARLI HALL

STL8240-680 (12/02)

Login Sample Receipt Check List

Client: TN & Associates

Job Number: 680-31009-1
SDG Number: 31009

Login Number: 31009
Creator: Hall, Karl I
List Number: 1

List Source: TestAmerica Savannah

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RP-MW-04: received 1 liter amber broken each for 508 & 515.1 analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-31032-1

SDG Number: 31032

Job Description: Red Panther Chemical Site - Clarksdale,

For:
TN & Associates
1220 Kennestone Circle
Suite D
Marietta, GA 30066

Attention: Ms. Allyson Warrington

Terry Hornsby

Terry Hornsby
Project Manager I
terry.hornsby@testamericainc.com
10/31/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Description	Lab Location	Method	Preparation Method
Matrix Water			
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS	TAL SAV	EPA 525.2	
Determination of Semivolatile Organic Compounds in	TAL SAV		EPA 525.2
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography	TAL SAV	EPA-01 504.1	
EDB, DBCP, and 123TCP in Water by Microextraction	TAL SAV		EPA-DW 504.1
Chlorinated Pesticides in Water by GC/ECD	TAL SAV	EPA 508	
Separatory funnel extraction for method 508	TAL SAV		EPA 508
Chlorinated Acids in Water by Gas Chromatography	TAL SAV	EPA-01 515.1	
Chlorinated Acids in Water by Gas Chromatography	TAL SAV		EPA-DW 515.1
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081A_8082	
Continuous Liquid-Liquid Extraction	TAL SAV		SW846 3520C
ICP Metals by 200.7	TAL SAV	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
ICPMS Metals by 200.8	TAL SAV	EPA 200.8	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
Cyanide, Total (Semi-Automated Colorimetry)	TAL SAV	MCAWW 335.4	
Distillation/Cyanide	TAL SAV		Distillation

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-31032-1	RP-MW-03	Water	10/11/2007 1050	10/12/2007 0925
680-31032-2	RP-MW-01	Water	10/11/2007 1350	10/12/2007 0925

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: RP-MW-03

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/17/2007 1425
Date Prepared: N/A

Analysis Batch: 680-88630

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6860.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	82	70 - 130
4-Bromofluorobenzene	81	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-01**

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/17/2007 1445
Date Prepared: N/A

Analysis Batch: 680-88630

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6861.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	85	70 - 130
4-Bromofluorobenzene	85	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-03**

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: 525.2
Preparation: 525.2
Dilution: 1.0
Date Analyzed: 10/15/2007 1455
Date Prepared: 10/15/2007 0909

Analysis Batch: 680-88362
Prep Batch: 680-88285

Instrument ID: Mass Spec LC - R
Lab File ID: R4333.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	0.19	U	0.058	0.19
Atrazine	0.19	U	0.041	0.19
Simazine	0.48	U	0.073	0.48
Benzo[a]pyrene	0.19	U	0.024	0.19
Bis(2-ethylhexyl) phthalate	1.9	U	0.48	1.9
Di(2-ethylhexyl)adipate	1.4	U	0.48	1.4
Endrin	0.48	U	0.12	0.48
Hexachlorobenzene	0.19	U	0.031	0.19
Hexachlorocyclopentadiene	1.9	U	0.054	1.9

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	99	70 - 130
2-Nitro-m-xylene	97	70 - 130
Perylene-d12	99	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-01**

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: 525.2
Preparation: 525.2
Dilution: 1.0
Date Analyzed: 10/15/2007 1518
Date Prepared: 10/15/2007 0909

Analysis Batch: 680-88362
Prep Batch: 680-88285

Instrument ID: Mass Spec LC - R
Lab File ID: R4334.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	0.19	U	0.058	0.19
Atrazine	0.19	U	0.042	0.19
Simazine	0.49	U	0.074	0.49
Benzo[a]pyrene	0.19	U	0.024	0.19
Bis(2-ethylhexyl) phthalate	1.9	U	0.49	1.9
Di(2-ethylhexyl)adipate	1.5	U	0.49	1.5
Endrin	0.49	U	0.12	0.49
Hexachlorobenzene	0.19	U	0.031	0.19
Hexachlorocyclopentadiene	1.9	U	0.054	1.9

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	101	70 - 130
2-Nitro-m-xylene	94	70 - 130
Perylene-d12	115	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-03**

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1
Preparation: 504.1
Dilution: 1.0
Date Analyzed: 10/15/2007 1847
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150034.d
Initial Weight/Volume: 36.48 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	U *	0.0034	0.019
Ethylene Dibromide	0.019	U	0.0040	0.019

Surrogate	%Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	96	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-01**

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1
Preparation: 504.1
Dilution: 1.0
Date Analyzed: 10/15/2007 1916
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150038.d
Initial Weight/Volume: 37.00 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	U *	0.0033	0.019
Ethylene Dibromide	0.019	U	0.0040	0.019

Surrogate	%Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	119	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-03**

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

508 Chlorinated Pesticides in Water by GC/ECD

Method: 508
Preparation: 508
Dilution: 1.0
Date Analyzed: 10/15/2007 2221
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15025.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlordane (technical)	0.24	U	0.025	0.24
PCB-1016	0.48	U	0.064	0.48
PCB-1221	0.48	U	0.092	0.48
PCB-1232	0.48	U	0.050	0.48
PCB-1242	0.48	U	0.083	0.48
PCB-1248	0.48	U	0.050	0.48
PCB-1254	0.48	U	0.055	0.48
PCB-1260	0.48	U	0.044	0.48
Toxaphene	2.4	U	0.24	2.4
Polychlorinated biphenyls, Total	0.48	U	0.092	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	81	70 - 130
Tetrachloro-m-xylene	84	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-01**

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

508 Chlorinated Pesticides in Water by GC/ECD

Method: 508
Preparation: 508
Dilution: 1.0
Date Analyzed: 10/15/2007 2241
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15026.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlordane (technical)	0.24	U	0.025	0.24
PCB-1016	0.49	U	0.065	0.49
PCB-1221	0.49	U	0.093	0.49
PCB-1232	0.49	U	0.050	0.49
PCB-1242	0.49	U	0.083	0.49
PCB-1248	0.49	U	0.050	0.49
PCB-1254	0.49	U	0.055	0.49
PCB-1260	0.49	U	0.045	0.49
Toxaphene	2.4	U	0.24	2.4
Polychlorinated biphenyls, Total	0.49	U	0.093	0.49

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	79	70 - 130
Tetrachloro-m-xylene	90	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-03**

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

515.1 Chlorinated Acids in Water by Gas Chromatography

Method: 515.1
Preparation: 515.1
Dilution: 1.0
Date Analyzed: 10/23/2007 1800
Date Prepared: 10/19/2007 0804

Analysis Batch: 680-89042
Prep Batch: 680-88702

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj23009.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Pentachlorophenol	0.96	U	0.024	0.96

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	113	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-01**

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

515.1 Chlorinated Acids in Water by Gas Chromatography

Method: 515.1
Preparation: 515.1
Dilution: 1.0
Date Analyzed: 10/23/2007 1821
Date Prepared: 10/19/2007 0804

Analysis Batch: 680-89042
Prep Batch: 680-88702

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj23010.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Pentachlorophenol	1.0	U	0.025	1.0

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	129	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-03**

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/17/2007 1300
Date Prepared: 10/15/2007 1200

Analysis Batch: 680-88742
Prep Batch: 680-88278

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj16060.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.096	U	0.0057	0.096
4,4'-DDE	0.096	U	0.0094	0.096
4,4'-DDT	0.096	U	0.014	0.096
Aldrin	0.048	U	0.0058	0.048
alpha-BHC	0.048	U	0.0078	0.048
beta-BHC	0.048	U	0.0079	0.048
Chlordane (technical)	0.48	U	0.047	0.48
delta-BHC	0.048	U	0.0066	0.048
Dieldrin	0.096	U	0.0075	0.096
Endosulfan I	0.048	U	0.0053	0.048
Endosulfan II	0.096	U	0.0048	0.096
Endosulfan sulfate	0.096	U	0.0067	0.096
Endrin	0.096	U	0.0075	0.096
Endrin aldehyde	0.096	U	0.0087	0.096
Endrin ketone	0.096	U	0.0088	0.096
gamma-BHC (Lindane)	0.048	U	0.0057	0.048
Heptachlor	0.048	U	0.0043	0.048
Heptachlor epoxide	0.048	U	0.0067	0.048
Methoxychlor	0.48	U	0.022	0.48
Toxaphene	4.8	U	1.3	4.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	14 - 115
Tetrachloro-m-xylene	63	35 - 120

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: **RP-MW-01**

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/17/2007 1323
Date Prepared: 10/15/2007 1200

Analysis Batch: 680-88742
Prep Batch: 680-88278

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj16061.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.097	U	0.0057	0.097
4,4'-DDE	0.097	U	0.0095	0.097
4,4'-DDT	0.097	U	0.015	0.097
Aldrin	0.049	U	0.0058	0.049
alpha-BHC	0.049	U	0.0079	0.049
beta-BHC	0.049	U	0.0080	0.049
Chlordane (technical)	0.49	U	0.048	0.49
delta-BHC	0.049	U	0.0067	0.049
Dieldrin	0.097	U	0.0076	0.097
Endosulfan I	0.049	U	0.0053	0.049
Endosulfan II	0.097	U	0.0049	0.097
Endosulfan sulfate	0.097	U	0.0068	0.097
Endrin	0.097	U	0.0076	0.097
Endrin aldehyde	0.097	U	0.0087	0.097
Endrin ketone	0.097	U	0.0088	0.097
gamma-BHC (Lindane)	0.049	U	0.0057	0.049
Heptachlor	0.049	U	0.0044	0.049
Heptachlor epoxide	0.049	U	0.0068	0.049
Methoxychlor	0.49	U	0.022	0.49
Toxaphene	4.9	U	1.3	4.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	54	14 - 115
Tetrachloro-m-xylene	57	35 - 120

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: RP-MW-03

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

200.7 Rev 4.4 ICP Metals by 200.7

Method: 200.7 Rev 4.4
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 1834
Date Prepared: 10/16/2007 0824

Analysis Batch: 680-88788
Prep Batch: 680-88396

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	28	200
Iron	80		26	50
Silver	10	U	0.70	10
Calcium	700		25	500
Copper	7.2	J	2.2	20
Manganese	2.9	J	2.2	10
Nickel	40	U	2.0	40
Zinc	32		4.7	20

200.8 ICPMS Metals by 200.8

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 1951
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	11		0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	1.4	B	0.24	1.0
Copper	8.7		0.26	1.0
Lead	0.75		0.054	0.30
Mercury	0.045	J	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/22/2007 1516
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.76		0.16	0.50

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Client Sample ID: RP-MW-01

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

200.7 Rev 4.4 ICP Metals by 200.7

Method: 200.7 Rev 4.4
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 1839
Date Prepared: 10/16/2007 0824

Analysis Batch: 680-88788
Prep Batch: 680-88396

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	28	200
Iron	86		26	50
Silver	10	U	0.70	10
Calcium	810		25	500
Copper	6.7	J	2.2	20
Manganese	10	U	2.2	10
Nickel	40	U	2.0	40
Zinc	6.4	J	4.7	20

200.8 ICPMS Metals by 200.8

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 2020
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	12		0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	1.6	B	0.24	1.0
Copper	8.9		0.26	1.0
Lead	1.1		0.054	0.30
Mercury	0.051	J	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/22/2007 1545
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.85		0.16	0.50

General Chemistry

Client Sample ID: RP-MW-03

Lab Sample ID: 680-31032-1
Client Matrix: Water

Date Sampled: 10/11/2007 1050
Date Received: 10/12/2007 0925

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	335.4
Anly Batch: 680-88481	Date Analyzed	10/17/2007 0741					
Prep Batch: 680-88322	Date Prepared:	10/15/2007 1115					

Client Sample ID: RP-MW-01

Lab Sample ID: 680-31032-2
Client Matrix: Water

Date Sampled: 10/11/2007 1350
Date Received: 10/12/2007 0925

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	335.4
Anly Batch: 680-88481	Date Analyzed	10/17/2007 0742					
Prep Batch: 680-88322	Date Prepared:	10/15/2007 1115					

DATA REPORTING QUALIFIERS

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
LCS 680-88630/3		91	98
MB 680-88630/4		91	89
680-31032-1	RP-MW-03	82	81
680-31032-2	RP-MW-01	85	85

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Client Matrix: Water

Lab Sample ID	Client Sample ID	2NMX %Rec	PD12 %Rec	TPP %Rec
LCS 680-88285/5-A		96	88	92
MB 680-88285/4-A		96	85	96
680-31032-1	RP-MW-03	97	99	99
680-31032-2	RP-MW-01	94	115	101

Surrogate		Acceptance Limits
2NMX	2-Nitro-m-xylene	70 - 130
PD12	Perylene-d12	70 - 130
TPP	Triphenylphosphate	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCP1 %Rec	TCP2 %Rec
LCS 680-88289/5-A			113
LCSD 680-88289/6-A		109	
MB 680-88289/4-A			94
680-31032-1	RP-MW-03		96
680-31032-2	RP-MW-01		119

Surrogate		Acceptance Limits
TCP	1,2,3-Trichloropropane-(Surr)	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX2 %Rec
LCS 680-88279/8-A			107	99
MB 680-88279/6-A		114		103
680-31032-1	RP-MW-03		81	84
680-31032-2	RP-MW-01		79	90

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
TCX	Tetrachloro-m-xylene	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA2 %Rec
LCS 680-88702/20-A		121
LCSD 680-88702/21-A		109
MB 680-88702/19-A		104
680-31032-1	RP-MW-03	113
680-31032-2	RP-MW-01	129

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
LCS 680-88278/9-A			69		81
MB 680-88278/8-A		67		59	
680-31032-1	RP-MW-03	61		63	
680-31032-2	RP-MW-01	54			57

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	14 - 115
TCX	Tetrachloro-m-xylene	35 - 120

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88630

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-88630/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 1306
Date Prepared: N/A

Analysis Batch: 680-88630
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2290.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	89	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Lab Control Spike - Batch: 680-88630

Method: 524.2
Preparation: N/A

Lab Sample ID: LCS 680-88630/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 1147
Date Prepared: N/A

Analysis Batch: 680-88630
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2289.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chlorobenzene	20.0	19.7	98	70 - 130	
cis-1,2-Dichloroethene	20.0	19.8	99	70 - 130	
1,2-Dichlorobenzene	20.0	17.4	87	70 - 130	
1,4-Dichlorobenzene	20.0	17.2	86	70 - 130	
1,1-Dichloroethene	20.0	19.9	100	70 - 130	
1,2-Dichloropropane	20.0	20.7	104	70 - 130	
Ethylbenzene	20.0	18.5	93	70 - 130	
Methylene Chloride	20.0	19.7	99	70 - 130	
Tetrachloroethene	20.0	20.0	100	70 - 130	
Toluene	20.0	19.8	99	70 - 130	
trans-1,2-Dichloroethene	20.0	20.2	101	70 - 130	
1,2,4-Trichlorobenzene	20.0	18.5	92	70 - 130	
1,1,1-Trichloroethane	20.0	18.9	95	70 - 130	
Vinyl chloride	20.0	19.4	97	70 - 130	
Xylenes, Total	60.0	54.4	91	70 - 130	
1,2-Dichloroethane	20.0	20.6	103	70 - 130	
Carbon tetrachloride	20.0	17.8	89	70 - 130	
1,1,2-Trichloroethane	20.0	20.2	101	70 - 130	
Benzene	20.0	20.5	103	70 - 130	
Styrene	20.0	18.0	90	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	98	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88285

Method: 525.2
Preparation: 525.2

Lab Sample ID: MB 680-88285/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1432
Date Prepared: 10/15/2007 0909

Analysis Batch: 680-88362
Prep Batch: 680-88285
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R4332.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Alachlor	0.20	U	0.060	0.20
Atrazine	0.20	U	0.043	0.20
Simazine	0.50	U	0.076	0.50
Benzo[a]pyrene	0.20	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	2.0	U	0.50	2.0
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5
Endrin	0.50	U	0.12	0.50
Hexachlorobenzene	0.20	U	0.032	0.20
Hexachlorocyclopentadiene	2.0	U	0.056	2.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	96	70 - 130
2-Nitro-m-xylene	96	70 - 130
Perylene-d12	85	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Lab Control Spike - Batch: 680-88285

Method: 525.2
Preparation: 525.2

Lab Sample ID: LCS 680-88285/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1410
Date Prepared: 10/15/2007 0909

Analysis Batch: 680-88362
Prep Batch: 680-88285
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R4331.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alachlor	5.00	4.34	87	70 - 130	
Atrazine	5.00	4.43	89	70 - 130	
Simazine	5.00	4.45	89	70 - 130	
Benzo[a]pyrene	5.00	4.12	82	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.52	90	70 - 130	
Di(2-ethylhexyl)adipate	5.00	4.05	81	70 - 130	
Endrin	5.00	4.39	88	70 - 130	
Hexachlorobenzene	5.00	4.13	83	70 - 130	
Hexachlorocyclopentadiene	5.00	4.03	81	70 - 130	

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	92	70 - 130
2-Nitro-m-xylene	96	70 - 130
Perylene-d12	88	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88289

Method: 504.1
Preparation: 504.1

Lab Sample ID: MB 680-88289/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1655
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150019.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
1,2-Dibromo-3-Chloropropane	0.020	U	0.0035	0.020
Ethylene Dibromide	0.020	U	0.0042	0.020

Surrogate	% Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	94	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88289

Method: 504.1
Preparation: 504.1

LCS Lab Sample ID: LCS 680-88289/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1702
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150020.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-88289/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1709
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150021.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dibromo-3-Chloropropane	111	133	70 - 130	18	30		*
Ethylene Dibromide	105	101	70 - 130	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	113	109	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88279

Method: 508
Preparation: 508

Lab Sample ID: MB 680-88279/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 2104
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15021.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	0.25	U	0.026	0.25
PCB-1016	0.50	U	0.067	0.50
PCB-1221	0.50	U	0.096	0.50
PCB-1232	0.50	U	0.052	0.50
PCB-1242	0.50	U	0.086	0.50
PCB-1248	0.50	U	0.052	0.50
PCB-1254	0.50	U	0.057	0.50
PCB-1260	0.50	U	0.046	0.50
Toxaphene	2.5	U	0.25	2.5
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	114	70 - 130
Tetrachloro-m-xylene	103	70 - 130

Lab Control Spike - Batch: 680-88279

Method: 508
Preparation: 508

Lab Sample ID: LCS 680-88279/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 2143
Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394
Prep Batch: 680-88279
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mj15023.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	11.9	119	70 - 130	
PCB-1260	10.0	12.2	122	70 - 130	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	107	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88702

Method: 515.1
Preparation: 515.1

Lab Sample ID: MB 680-88702/19-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/23/2007 1657
Date Prepared: 10/19/2007 0804

Analysis Batch: 680-89042
Prep Batch: 680-88702
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj23006.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Pentachlorophenol	1.0	U	0.025	1.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	104	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88702

Method: 515.1
Preparation: 515.1

LCS Lab Sample ID: LCS 680-88702/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/23/2007 1718
Date Prepared: 10/19/2007 0804

Analysis Batch: 680-89042
Prep Batch: 680-88702
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj23007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-88702/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/23/2007 1739
Date Prepared: 10/19/2007 0804

Analysis Batch: 680-89042
Prep Batch: 680-88702
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj23008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pentachlorophenol	82	79	70 - 130	4	30	J	J

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	121	109	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88278

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-88278/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 0956
Date Prepared: 10/15/2007 1200

Analysis Batch: 680-88742
Prep Batch: 680-88278
Units: ug/L

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj16052.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	0.10
4,4'-DDT	0.10	U	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U	0.0081	0.050
beta-BHC	0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	U	0.0069	0.050
Dieldrin	0.10	U	0.0078	0.10
Endosulfan I	0.050	U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	U	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	U	0.0070	0.050
Methoxychlor	0.50	U	0.023	0.50
Toxaphene	5.0	U	1.3	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	67	14 - 115
Tetrachloro-m-xylene	59	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Lab Control Spike - Batch: 680-88278

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-88278/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 1019
Date Prepared: 10/15/2007 1200

Analysis Batch: 680-88742
Prep Batch: 680-88278
Units: ug/L

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj16053.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.196	0.148	75	37 - 179	
4,4'-DDE	0.204	0.147	72	33 - 142	
4,4'-DDT	0.200	0.186	93	27 - 141	
Aldrin	0.103	0.0786	76	32 - 114	
alpha-BHC	0.107	0.0773	72	29 - 112	
beta-BHC	0.109	0.0945	87	15 - 204	
delta-BHC	0.105	0.0680	65	25 - 123	
Dieldrin	0.200	0.156	78	45 - 137	
Endosulfan I	0.100	0.0846	85	31 - 134	
Endosulfan II	0.200	0.148	74	24 - 144	
Endosulfan sulfate	0.203	0.153	75	44 - 128	
Endrin	0.203	0.151	74	38 - 144	
Endrin aldehyde	0.201	0.176	87	37 - 135	
Endrin ketone	0.201	0.169	84	41 - 155	
gamma-BHC (Lindane)	0.100	0.0766	77	31 - 118	
Heptachlor	0.100	0.0817	82	30 - 133	
Heptachlor epoxide	0.100	0.0799	80	34 - 126	
Methoxychlor	0.201	0.212	105	10 - 243	J

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	69	14 - 115
Tetrachloro-m-xylene	81	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88396

Method: 200.7 Rev 4.4
Preparation: 200

Lab Sample ID: MB 680-88396/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1824
Date Prepared: 10/16/2007 0824

Analysis Batch: 680-88788
Prep Batch: 680-88396
Units: ug/L

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	28	200
Iron	50	U	26	50
Silver	10	U	0.70	10
Calcium	500	U	25	500
Copper	20	U	2.2	20
Manganese	10	U	2.2	10
Nickel	40	U	2.0	40
Zinc	20	U	4.7	20

Lab Control Spike - Batch: 680-88396

Method: 200.7 Rev 4.4
Preparation: 200

Lab Sample ID: LCS 680-88396/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1829
Date Prepared: 10/16/2007 0824

Analysis Batch: 680-88788
Prep Batch: 680-88396
Units: ug/L

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	2000	100	85 - 115	
Iron	1000	1010	101	85 - 115	
Silver	50.0	50.7	101	85 - 115	
Calcium	5000	5270	105	85 - 115	
Copper	250	262	105	85 - 115	
Manganese	500	536	107	85 - 115	
Nickel	500	514	103	85 - 115	
Zinc	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88396

Method: 200.7 Rev 4.4
Preparation: 200

MS Lab Sample ID:	680-31032-2	Analysis Batch: 680-88788	Instrument ID: ICP/AES
Client Matrix:	Water	Prep Batch: 680-88396	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 1854		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0824		

MSD Lab Sample ID:	680-31032-2	Analysis Batch: 680-88788	Instrument ID: ICP/AES
Client Matrix:	Water	Prep Batch: 680-88396	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 1859		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0824		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	105	105	75 - 125	0	20		
Iron	99	100	75 - 125	1	20		
Silver	104	104	75 - 125	0	20		
Calcium	105	106	75 - 125	0	20		
Copper	107	108	75 - 125	0	20		
Manganese	108	108	75 - 125	0	20		
Nickel	102	102	75 - 125	0	20		
Zinc	106	106	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88392

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-88392/11-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1940
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	2.0	U	0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	0.75	J	0.24	1.0
Copper	1.0	U	0.26	1.0
Lead	0.30	U	0.054	0.30
Mercury	0.10	U	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method Blank - Batch: 680-88392

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-88392/11-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2007 1505
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.50	U	0.16	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Lab Control Spike - Batch: 680-88392

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-88392/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1946
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	10.0	9.02	90	85 - 115	
Barium	20.0	19.2	96	85 - 115	
Beryllium	10.0	8.99	90	85 - 115	
Cadmium	10.0	8.80	88	85 - 115	
Chromium	20.0	19.5	97	85 - 115	
Copper	20.0	18.2	91	85 - 115	
Lead	10.0	10.1	101	85 - 115	
Mercury	1.00	0.917	92	85 - 115	
Thallium	8.00	7.81	98	85 - 115	

Lab Control Spike - Batch: 680-88392

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-88392/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2007 1511
Date Prepared: 10/16/2007 0803

Analysis Batch: 680-88954
Prep Batch: 680-88392
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	20.0	100	85 - 115	
Selenium	20.0	19.8	99	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88392

Method: 200.8
Preparation: 200

MS Lab Sample ID:	680-31032-1	Analysis Batch: 680-88954	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88392	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 2008		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0803		

MSD Lab Sample ID:	680-31032-1	Analysis Batch: 680-88954	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88392	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 2014		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0803		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	92	92	70 - 130	0	20		
Barium	98	101	70 - 130	2	20		
Beryllium	89	93	70 - 130	5	20		
Cadmium	85	84	70 - 130	0	20		
Chromium	96	98	70 - 130	2	20	B	B
Copper	89	90	70 - 130	1	20		
Lead	92	93	70 - 130	1	20		
Mercury	98	99	70 - 130	0	20		
Thallium	90	91	70 - 130	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88392

Method: 200.8
Preparation: 200

MS Lab Sample ID:	680-31032-1	Analysis Batch:	680-88954	Instrument ID:	ICP MS
Client Matrix:	Water	Prep Batch:	680-88392	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/22/2007 1533			Final Weight/Volume:	50 mL
Date Prepared:	10/16/2007 0803				

MSD Lab Sample ID:	680-31032-1	Analysis Batch:	680-88954	Instrument ID:	ICP MS
Client Matrix:	Water	Prep Batch:	680-88392	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/22/2007 1539			Final Weight/Volume:	50 mL
Date Prepared:	10/16/2007 0803				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	84	85	70 - 130	2	20		
Selenium	79	80	70 - 130	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Method Blank - Batch: 680-88322

Method: 335.4
Preparation: Distillation

Lab Sample ID: MB 680-88322/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 0734
Date Prepared: 10/15/2007 1115

Analysis Batch: 680-88481
Prep Batch: 680-88322
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.010	U	0.0050	0.010

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88322

Method: 335.4
Preparation: Distillation

LCS Lab Sample ID: LCS 680-88322/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 0735
Date Prepared: 10/15/2007 1115

Analysis Batch: 680-88481
Prep Batch: 680-88322
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-88322/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/17/2007 0735
Date Prepared: 10/15/2007 1115

Analysis Batch: 680-88481
Prep Batch: 680-88322
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide, Total	102	103	90 - 110	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31032-1
Sdg Number: 31032

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88322

Method: 335.4
Preparation: Distillation

MS Lab Sample ID:	680-31032-2	Analysis Batch: 680-88481	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 680-88322	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/17/2007 0742		Final Weight/Volume: 50 mL
Date Prepared:	10/15/2007 1115		

MSD Lab Sample ID:	680-31032-2	Analysis Batch: 680-88481	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 680-88322	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/17/2007 0743		Final Weight/Volume: 50 mL
Date Prepared:	10/15/2007 1115		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide, Total	96	104	90 - 110	8	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 73779

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL®**

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
205148-4603		MS

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Paige Page		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Allyson Mowington	678 355 5555	678 355 5575

CLIENT NAME	CLIENT E-MAIL
TW of MS, LLC	amowington@tnainc.com

CLIENT ADDRESS: 1220 Kennestone Cir. Suite D Marietta, GA 30066

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◉ DATE DUE 10 days

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SLM/SOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 5035	524.2	200.7/1631E,S	5030/8011/504.2	335.4	515.1	525.2	504.1	REMARKS
								NUMBER OF CONTAINERS SUBMITTED								
10/4/07	1050	RP-MW-03	G	✓				2	3	1	2	1	2	2	3	
10/4/07	1350	RP-MW-01	G	✓				2	3	1	2	1	2	2	3	
		W. Rinse follow														

TEMP: 0.2/0.2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
				10/11/07	1800			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	10/12/07	1700						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
KL	10/12/07	0925	YES ◯ NO ◯		60-31032	

STL 9240-680 (12/02)

Login Sample Receipt Check List

Client: TN & Associates

Job Number: 680-31032-1
SDG Number: 31032

Login Number: 31032
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RP-MW-01:1 Liter received broken for 508.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-30941-1

SDG Number: 30941

Job Description: Red Panther Chemical Site - Clarksdale

For:
TN & Associates
1220 Kennestone Circle
Suite D
Marietta, GA 30066

Attention: Ms. Allyson Warrington

Terry Hornsby

Terry Hornsby
Project Manager I
terry.hornsby@testamericainc.com
10/31/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Description	Lab Location	Method	Preparation Method
Matrix Water			
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS	TAL SAV	EPA 525.2	
Determination of Semivolatile Organic Compounds in	TAL SAV		EPA 525.2
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography	TAL SAV	EPA-01 504.1	
EDB, DBCP, and 123TCP in Water by Microextraction	TAL SAV		EPA-DW 504.1
Chlorinated Pesticides in Water by GC/ECD	TAL SAV	EPA 508	
Separatory funnel extraction for method 508	TAL SAV		EPA 508
Chlorinated Acids in Water by Gas Chromatography	TAL SAV	EPA-01 515.1	
Chlorinated Acids in Water by Gas Chromatography	TAL SAV		EPA-DW 515.1
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography	TAL SAV	SW846 8081A_8082	
Continuous Liquid-Liquid Extraction	TAL SAV		SW846 3520C
ICP Metals by 200.7	TAL SAV	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
ICPMS Metals by 200.8	TAL SAV	EPA 200.8	
200 Series Drinking Water Prep Determination Step	TAL SAV		EPA 200
Cyanide, Total (Semi-Automated Colorimetry)	TAL SAV	MCAWW 335.4	
Distillation/Cyanide	TAL SAV		Distillation

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-30941-1TB	RP-TB-01	Drinking Water	10/08/2007 1530	10/10/2007 0912
680-30941-2	RP-MW-02	Drinking Water	10/08/2007 1520	10/10/2007 0912
680-30941-3	RP-MW-05	Drinking Water	10/08/2007 1520	10/10/2007 0912

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-TB-01**

Lab Sample ID: 680-30941-1TB
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1530
Date Received: 10/10/2007 0912

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/11/2007 1417
Date Prepared: N/A

Analysis Batch: 680-88090

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6804.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	89	70 - 130
4-Bromofluorobenzene	91	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-02**

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/11/2007 1437
Date Prepared: N/A

Analysis Batch: 680-88090

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6805.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	89	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 10/11/2007 1457
Date Prepared: N/A

Analysis Batch: 680-88090

Instrument ID: GC/MS Volatiles - U
Lab File ID: u6806.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	90	70 - 130
4-Bromofluorobenzene	90	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-02**

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: 525.2
Preparation: 525.2
Dilution: 1.0
Date Analyzed: 10/12/2007 1644
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135

Instrument ID: Mass Spec LC - R
Lab File ID: R4328.D
Initial Weight/Volume: 1035 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	0.19	U	0.058	0.19
Atrazine	0.19	U	0.042	0.19
Simazine	0.48	U	0.073	0.48
Benzo[a]pyrene	0.19	U	0.024	0.19
Bis(2-ethylhexyl) phthalate	1.9	U	0.48	1.9
Di(2-ethylhexyl)adipate	1.4	U	0.48	1.4
Endrin	0.48	U	0.12	0.48
Hexachlorobenzene	0.19	U	0.031	0.19
Hexachlorocyclopentadiene	1.9	U	0.054	1.9

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	99	70 - 130
2-Nitro-m-xylene	96	70 - 130
Perylene-d12	92	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: 525.2
Preparation: 525.2
Dilution: 1.0
Date Analyzed: 10/12/2007 1706
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135

Instrument ID: Mass Spec LC - R
Lab File ID: R4329.D
Initial Weight/Volume: 1025 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	0.20	U	0.059	0.20
Atrazine	0.20	U	0.042	0.20
Simazine	0.49	U	0.074	0.49
Benzo[a]pyrene	0.20	U	0.024	0.20
Bis(2-ethylhexyl) phthalate	2.0	U	0.49	2.0
Di(2-ethylhexyl)adipate	1.5	U	0.49	1.5
Endrin	0.49	U	0.12	0.49
Hexachlorobenzene	0.20	U	0.031	0.20
Hexachlorocyclopentadiene	2.0	U	0.055	2.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	103	70 - 130
2-Nitro-m-xylene	117	70 - 130
Perylene-d12	84	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-02**

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1
Preparation: 504.1
Dilution: 1.0
Date Analyzed: 10/15/2007 1802
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150028.d
Initial Weight/Volume: 36.00 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	U *	0.0034	0.019
Ethylene Dibromide	0.019	U	0.0041	0.019

Surrogate	%Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	77	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1
Preparation: 504.1
Dilution: 1.0
Date Analyzed: 10/15/2007 1832
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150032.d
Initial Weight/Volume: 36.94 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	U *	0.0033	0.019
Ethylene Dibromide	0.019	U	0.0040	0.019

Surrogate	%Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	86	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: RP-MW-02

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

508 Chlorinated Pesticides in Water by GC/ECD

Method: 508
Preparation: 508
Dilution: 1.0
Date Analyzed: 10/11/2007 1945
Date Prepared: 10/11/2007 0825

Analysis Batch: 680-88162
Prep Batch: 680-87996

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj10083.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlordane (technical)	0.50	U	0.052	0.50
PCB-1016	1.0	U	0.13	1.0
PCB-1221	1.0	U	0.19	1.0
PCB-1232	1.0	U	0.10	1.0
PCB-1242	1.0	U	0.17	1.0
PCB-1248	1.0	U	0.10	1.0
PCB-1254	1.0	U	0.11	1.0
PCB-1260	1.0	U	0.092	1.0
Toxaphene	5.0	U	0.50	5.0
Polychlorinated biphenyls, Total	1.0	U	0.19	1.0

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	89	70 - 130
Tetrachloro-m-xylene	103	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

508 Chlorinated Pesticides in Water by GC/ECD

Method: 508
Preparation: 508
Dilution: 1.0
Date Analyzed: 10/11/2007 2008
Date Prepared: 10/11/2007 0825

Analysis Batch: 680-88162
Prep Batch: 680-87996

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj10084.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chlordane (technical)	0.24	U	0.025	0.24
PCB-1016	0.49	U	0.065	0.49
PCB-1221	0.49	U	0.093	0.49
PCB-1232	0.49	U	0.050	0.49
PCB-1242	0.49	U	0.083	0.49
PCB-1248	0.49	U	0.050	0.49
PCB-1254	0.49	U	0.055	0.49
PCB-1260	0.49	U	0.045	0.49
Toxaphene	2.4	U	0.24	2.4
Polychlorinated biphenyls, Total	0.49	U	0.093	0.49

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	74	70 - 130
Tetrachloro-m-xylene	103	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-02**

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

515.1 Chlorinated Acids in Water by Gas Chromatography

Method: 515.1
Preparation: 515.1
Dilution: 1.0
Date Analyzed: 10/16/2007 2137
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16019.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Pentachlorophenol	1.0	U	0.025	1.0

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	109	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

515.1 Chlorinated Acids in Water by Gas Chromatography

Method: 515.1
Preparation: 515.1
Dilution: 1.0
Date Analyzed: 10/16/2007 2158
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16020.d
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Pentachlorophenol	0.97	U	0.024	0.97

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	105	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-02**

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/12/2007 2018
Date Prepared: 10/11/2007 1200

Analysis Batch: 680-88267
Prep Batch: 680-87988

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj12022.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 5 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	0.10
4,4'-DDT	0.10	U	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U	0.0081	0.050
beta-BHC	0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	U	0.0069	0.050
Dieldrin	0.10	U	0.0078	0.10
Endosulfan I	0.050	U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	U	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	U	0.0070	0.050
Methoxychlor	0.50	U	0.023	0.50
Toxaphene	5.0	U	1.3	5.0

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	36	14 - 115
Tetrachloro-m-xylene	70	35 - 120

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 10/12/2007 2041
Date Prepared: 10/11/2007 1200

Analysis Batch: 680-88267
Prep Batch: 680-87988

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj12023.d
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.098	U	0.0058	0.098
4,4'-DDE	0.098	U	0.0096	0.098
4,4'-DDT	0.098	U	0.015	0.098
Aldrin	0.049	U	0.0059	0.049
alpha-BHC	0.049	U	0.0079	0.049
beta-BHC	0.049	U	0.0080	0.049
Chlordane (technical)	0.49	U	0.048	0.49
delta-BHC	0.049	U	0.0068	0.049
Dieldrin	0.098	U	0.0076	0.098
Endosulfan I	0.049	U	0.0054	0.049
Endosulfan II	0.098	U	0.0049	0.098
Endosulfan sulfate	0.098	U	0.0069	0.098
Endrin	0.098	U	0.0076	0.098
Endrin aldehyde	0.098	U	0.0088	0.098
Endrin ketone	0.098	U	0.0089	0.098
gamma-BHC (Lindane)	0.049	U	0.0058	0.049
Heptachlor	0.049	U	0.0044	0.049
Heptachlor epoxide	0.049	U	0.0069	0.049
Methoxychlor	0.49	U	0.023	0.49
Toxaphene	4.9	U	1.3	4.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	34	14 - 115
Tetrachloro-m-xylene	56	35 - 120

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: RP-MW-02

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

200.7 Rev 4.4 ICP Metals by 200.7

Method: 200.7 Rev 4.4
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/15/2007 1733
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	28	200
Iron	52		26	50
Silver	10	U	0.70	10
Calcium	500		25	500
Copper	20	U	2.2	20
Manganese	3.7	J	2.2	10
Nickel	40	U	2.0	40
Zinc	4.8	J	4.7	20

200.8 ICPMS Metals by 200.8

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 1837
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	3.5		0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	1.3	B	0.24	1.0
Copper	4.6	B	0.26	1.0
Lead	0.76	B	0.054	0.30
Mercury	0.092	J B	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/22/2007 1403
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.61		0.16	0.50

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Client Sample ID: RP-MW-05

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

200.7 Rev 4.4 ICP Metals by 200.7

Method: 200.7 Rev 4.4
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/15/2007 1756
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	28	200
Iron	55		26	50
Silver	10	U	0.70	10
Calcium	490	J	25	500
Copper	20	U	2.2	20
Manganese	3.8	J	2.2	10
Nickel	40	U	2.0	40
Zinc	20	U	4.7	20

200.8 ICPMS Metals by 200.8

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/18/2007 1843
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	3.5		0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	1.5	B	0.24	1.0
Copper	4.7	B	0.26	1.0
Lead	0.80	B	0.054	0.30
Mercury	0.094	J B	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method: 200.8
Preparation: 200
Dilution: 1.0
Date Analyzed: 10/22/2007 1408
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.48	J	0.16	0.50

General Chemistry

Client Sample ID: **RP-MW-02**

Lab Sample ID: 680-30941-2
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	335.4
Anly Batch: 680-88262	Date Analyzed	10/12/2007 1407					
Prep Batch: 680-88118	Date Prepared:	10/12/2007 0801					

Client Sample ID: **RP-MW-05**

Lab Sample ID: 680-30941-3
Client Matrix: Drinking Water

Date Sampled: 10/08/2007 1520
Date Received: 10/10/2007 0912

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010	U	mg/L	0.0050	0.010	1.0	335.4
Anly Batch: 680-88262	Date Analyzed	10/12/2007 1408					
Prep Batch: 680-88118	Date Prepared:	10/12/2007 0801					

DATA REPORTING QUALIFIERS

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
LCS 680-88090/13		96	96
MB 680-88090/14		88	89
680-30941-1	RP-TB-01	89	91
680-30941-2	RP-MW-02	91	89
680-30941-3	RP-MW-05	90	90

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Client Matrix: Water

Lab Sample ID	Client Sample ID	2NMX %Rec	PD12 %Rec	TPP %Rec
LCS 680-88135/7-A		107	85	99
MB 680-88135/6-A		108	82	105
680-30941-2	RP-MW-02	96	92	99
680-30941-3	RP-MW-05	117	84	103

Surrogate		Acceptance Limits
2NMX	2-Nitro-m-xylene	70 - 130
PD12	Perylene-d12	70 - 130
TPP	Triphenylphosphate	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCP1 %Rec	TCP2 %Rec
LCS 680-88289/5-A			113
LCSD 680-88289/6-A		109	
MB 680-88289/4-A			94
680-30941-2	RP-MW-02		77
680-30941-3	RP-MW-05	86	

Surrogate		Acceptance Limits
TCP	1,2,3-Trichloropropane-(Surr)	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX2 %Rec
LCS 680-87996/8-A		110	109
MB 680-87996/6-A		98	96
680-30941-2	RP-MW-02	89	103
680-30941-3	RP-MW-05	74	103

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
TCX	Tetrachloro-m-xylene	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
LCS 680-88269/16-A			108
LCSD 680-88269/17-C			109
MB 680-88269/15-A			118
680-30941-2	RP-MW-02	109	
680-30941-3	RP-MW-05		105

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
LCS 680-87988/17-A		69	60
MB 680-87988/16-A		56	67
680-30941-2	RP-MW-02	36	70
680-30941-3	RP-MW-05	34	56

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	14 - 115
TCX	Tetrachloro-m-xylene	35 - 120

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88090

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-88090/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/11/2007 1222
Date Prepared: N/A

Analysis Batch: 680-88090
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2278.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	88	70 - 130
4-Bromofluorobenzene	89	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Lab Control Spike - Batch: 680-88090

Method: 524.2
Preparation: N/A

Lab Sample ID: LCS 680-88090/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/11/2007 1055
Date Prepared: N/A

Analysis Batch: 680-88090
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq2276.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chlorobenzene	20.0	21.6	108	70 - 130	
cis-1,2-Dichloroethene	20.0	21.4	107	70 - 130	
1,2-Dichlorobenzene	20.0	20.6	103	70 - 130	
1,4-Dichlorobenzene	20.0	20.8	104	70 - 130	
1,1-Dichloroethene	20.0	22.8	114	70 - 130	
1,2-Dichloropropane	20.0	22.9	114	70 - 130	
Ethylbenzene	20.0	21.8	109	70 - 130	
Methylene Chloride	20.0	21.6	108	70 - 130	
Tetrachloroethene	20.0	22.2	111	70 - 130	
Toluene	20.0	21.8	109	70 - 130	
trans-1,2-Dichloroethene	20.0	22.3	112	70 - 130	
1,2,4-Trichlorobenzene	20.0	21.3	107	70 - 130	
1,1,1-Trichloroethane	20.0	21.7	109	70 - 130	
Vinyl chloride	20.0	22.5	113	70 - 130	
Xylenes, Total	60.0	64.7	108	70 - 130	
1,2-Dichloroethane	20.0	22.7	113	70 - 130	
Carbon tetrachloride	20.0	20.6	103	70 - 130	
1,1,2-Trichloroethane	20.0	21.5	107	70 - 130	
Benzene	20.0	23.2	116	70 - 130	
Styrene	20.0	21.5	108	70 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	96	70 - 130
4-Bromofluorobenzene	96	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88135

Method: 525.2
Preparation: 525.2

Lab Sample ID: MB 680-88135/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1514
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R4324.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Alachlor	0.20	U	0.060	0.20
Atrazine	0.20	U	0.043	0.20
Simazine	0.50	U	0.076	0.50
Benzo[a]pyrene	0.20	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	2.0	U	0.50	2.0
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5
Endrin	0.50	U	0.12	0.50
Hexachlorobenzene	0.20	U	0.032	0.20
Hexachlorocyclopentadiene	2.0	U	0.056	2.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	105	70 - 130
2-Nitro-m-xylene	108	70 - 130
Perylene-d12	82	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Lab Control Spike - Batch: 680-88135

Method: 525.2
Preparation: 525.2

Lab Sample ID: LCS 680-88135/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1536
Date Prepared: 10/12/2007 0942

Analysis Batch: 680-88317
Prep Batch: 680-88135
Units: ug/L

Instrument ID: Mass Spec LC - R
Lab File ID: R4325.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alachlor	5.00	4.26	85	70 - 130	
Atrazine	5.00	4.80	96	70 - 130	
Simazine	5.00	4.51	90	70 - 130	
Benzo[a]pyrene	5.00	4.12	82	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.71	94	70 - 130	
Di(2-ethylhexyl)adipate	5.00	4.70	94	70 - 130	
Endrin	5.00	4.57	91	70 - 130	
Hexachlorobenzene	5.00	4.13	83	70 - 130	
Hexachlorocyclopentadiene	5.00	4.96	99	70 - 130	

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	99	70 - 130
2-Nitro-m-xylene	107	70 - 130
Perylene-d12	85	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88289

Method: 504.1
Preparation: 504.1

Lab Sample ID: MB 680-88289/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1655
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150019.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
1,2-Dibromo-3-Chloropropane	0.020	U	0.0035	0.020
Ethylene Dibromide	0.020	U	0.0042	0.020

Surrogate	% Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	94	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88289

Method: 504.1
Preparation: 504.1

LCS Lab Sample ID: LCS 680-88289/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1702
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150020.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-88289/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1709
Date Prepared: 10/15/2007 1030

Analysis Batch: 680-88440
Prep Batch: 680-88289
Units: ug/L

Instrument ID: GC SemiVolatiles - X
Lab File ID: xj150021.d
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dibromo-3-Chloropropane	111	133	70 - 130	18	30		*
Ethylene Dibromide	105	101	70 - 130	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	113	109	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-87996

Method: 508
Preparation: 508

Lab Sample ID: MB 680-87996/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/11/2007 1813
Date Prepared: 10/11/2007 0825

Analysis Batch: 680-88162
Prep Batch: 680-87996
Units: ug/L

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj10079.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	0.25	U	0.026	0.25
PCB-1016	0.50	U	0.067	0.50
PCB-1221	0.50	U	0.096	0.50
PCB-1232	0.50	U	0.052	0.50
PCB-1242	0.50	U	0.086	0.50
PCB-1248	0.50	U	0.052	0.50
PCB-1254	0.50	U	0.057	0.50
PCB-1260	0.50	U	0.046	0.50
Toxaphene	2.5	U	0.25	2.5
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	98	70 - 130
Tetrachloro-m-xylene	96	70 - 130

Lab Control Spike - Batch: 680-87996

Method: 508
Preparation: 508

Lab Sample ID: LCS 680-87996/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/11/2007 1859
Date Prepared: 10/11/2007 0825

Analysis Batch: 680-88162
Prep Batch: 680-87996
Units: ug/L

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj10081.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	11.4	114	70 - 130	
PCB-1260	10.0	11.6	116	70 - 130	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	110	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88269

Method: 515.1
Preparation: 515.1

Lab Sample ID: MB 680-88269/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2007 1703
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16006.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Pentachlorophenol	1.0	U	0.025	1.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	118	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88269

Method: 515.1
Preparation: 515.1

LCS Lab Sample ID: LCS 680-88269/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2007 1724
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-88269/17-C
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2007 1745
Date Prepared: 10/15/2007 0754

Analysis Batch: 680-88469
Prep Batch: 680-88269
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sj16008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pentachlorophenol	79	71	70 - 130	9	30	J	J

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	108	109	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-87988

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-87988/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1627
Date Prepared: 10/11/2007 1200

Analysis Batch: 680-88267
Prep Batch: 680-87988
Units: ug/L

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj12012.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	0.10
4,4'-DDT	0.10	U	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U	0.0081	0.050
beta-BHC	0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	U	0.0069	0.050
Dieldrin	0.10	U	0.0078	0.10
Endosulfan I	0.050	U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	U	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	U	0.0070	0.050
Methoxychlor	0.50	U	0.023	0.50
Toxaphene	5.0	U	1.3	5.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	56	14 - 115
Tetrachloro-m-xylene	67	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Lab Control Spike - Batch: 680-87988

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-87988/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1650
Date Prepared: 10/11/2007 1200

Analysis Batch: 680-88267
Prep Batch: 680-87988
Units: ug/L

Instrument ID: GC SemiVolatiles - J
Lab File ID: jj12013.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.196	0.127	65	37 - 179	
4,4'-DDE	0.204	0.130	64	33 - 142	
4,4'-DDT	0.200	0.157	79	27 - 141	
Aldrin	0.103	0.0635	62	32 - 114	
alpha-BHC	0.107	0.0600	56	29 - 112	
beta-BHC	0.109	0.0783	72	15 - 204	
delta-BHC	0.105	0.0594	57	25 - 123	
Dieldrin	0.200	0.142	71	45 - 137	
Endosulfan I	0.100	0.0753	75	31 - 134	
Endosulfan II	0.200	0.144	72	24 - 144	
Endosulfan sulfate	0.203	0.159	78	44 - 128	
Endrin	0.203	0.121	59	38 - 144	
Endrin aldehyde	0.201	0.166	83	37 - 135	
Endrin ketone	0.201	0.177	88	41 - 155	
gamma-BHC (Lindane)	0.100	0.0635	64	31 - 118	
Heptachlor	0.100	0.0649	65	30 - 133	
Heptachlor epoxide	0.100	0.0729	73	34 - 126	
Methoxychlor	0.201	0.199	99	10 - 243	J

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	69	14 - 115
Tetrachloro-m-xylene	60	35 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88095

Method: 200.7 Rev 4.4
Preparation: 200

Lab Sample ID: MB 680-88095/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1719
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095
Units: ug/L

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	28	200
Iron	50	U	26	50
Silver	10	U	0.70	10
Calcium	500	U	25	500
Copper	20	U	2.2	20
Manganese	10	U	2.2	10
Nickel	40	U	2.0	40
Zinc	20	U	4.7	20

Lab Control Spike - Batch: 680-88095

Method: 200.7 Rev 4.4
Preparation: 200

Lab Sample ID: LCS 680-88095/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/15/2007 1723
Date Prepared: 10/11/2007 1656

Analysis Batch: 680-88457
Prep Batch: 680-88095
Units: ug/L

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1910	96	85 - 115	
Iron	1000	1010	101	85 - 115	
Silver	50.0	50.0	100	85 - 115	
Calcium	5000	5200	104	85 - 115	
Copper	250	249	100	85 - 115	
Manganese	500	527	105	85 - 115	
Nickel	500	518	104	85 - 115	
Zinc	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-88095

Method: 200.7 Rev 4.4
Preparation: 200

MS Lab Sample ID:	680-30941-2	Analysis Batch:	680-88457	Instrument ID:	ICP/AES
Client Matrix:	Water	Prep Batch:	680-88095	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/15/2007 1746			Final Weight/Volume:	50 mL
Date Prepared:	10/11/2007 1656				

MSD Lab Sample ID:	680-30941-2	Analysis Batch:	680-88457	Instrument ID:	ICP/AES
Client Matrix:	Water	Prep Batch:	680-88095	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	10/15/2007 1751			Final Weight/Volume:	50 mL
Date Prepared:	10/11/2007 1656				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	98	98	75 - 125	1	20		
Iron	99	99	75 - 125	0	20		
Silver	100	100	75 - 125	1	20		
Calcium	104	104	75 - 125	0	20		
Copper	101	103	75 - 125	1	20		
Manganese	105	105	75 - 125	0	20		
Nickel	103	103	75 - 125	0	20		
Zinc	105	104	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-88097/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1809
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	2.0	U	0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	0.96	J	0.24	1.0
Copper	0.31	J	0.26	1.0
Lead	0.082	J	0.054	0.30
Mercury	0.080	J	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method Blank - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: MB 680-88097/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2007 1335
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.50	U	0.16	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Lab Control Spike - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-88097/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2007 1815
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	10.0	8.82	88	85 - 115	
Barium	20.0	19.0	95	85 - 115	
Beryllium	10.0	9.24	92	85 - 115	
Cadmium	10.0	8.64	86	85 - 115	
Chromium	20.0	19.3	96	85 - 115	
Copper	20.0	17.9	90	85 - 115	
Lead	10.0	10.0	100	85 - 115	
Mercury	1.00	0.948	95	85 - 115	
Thallium	8.00	7.72	97	85 - 115	

Lab Control Spike - Batch: 680-88097

Method: 200.8
Preparation: 200

Lab Sample ID: LCS 680-88097/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/22/2007 1340
Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946
Prep Batch: 680-88097
Units: ug/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	22	108	85 - 115	
Selenium	20.0	21	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1
Sdg Number: 30941

Method Blank - Batch: 680-88118

Method: 335.4
Preparation: Distillation

Lab Sample ID: MB 680-88118/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1348
Date Prepared: 10/12/2007 0801

Analysis Batch: 680-88262
Prep Batch: 680-88118
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.010	U	0.0050	0.010

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-88118

Method: 335.4
Preparation: Distillation

LCS Lab Sample ID: LCS 680-88118/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1348
Date Prepared: 10/12/2007 0801

Analysis Batch: 680-88262
Prep Batch: 680-88118
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-88118/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/12/2007 1349
Date Prepared: 10/12/2007 0801

Analysis Batch: 680-88262
Prep Batch: 680-88118
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide, Total	103	100	90 - 110	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 73777

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT STL®

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.stlinc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
2005148-4003		MS	1	1

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Addie Page		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Allyson Warrington	678-355-5550	678-355-5545

CLIENT NAME	CLIENT E-MAIL
TN & Associates, Inc.	awarrington@tnainc.com

CLIENT ADDRESS: 1220 Kennestone Cr. Suite D, Marietta, GA 30066

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY: ●
DATE DUE: Normal TAT
EXPEDITED REPORT DELIVERY (SURCHARGE): ○
DATE DUE:
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Sodium thiosulfate 508	HCl ascorbic acid 524.2	Arsenic acid 200.7/200.8	None 8081A/8082	NaOH 335.4	Na_2SO_3 375.1	$Na_2S_2O_3$ HCl 525.2	Sodium hydroxide to pH<2 504.1	REMARKS
10/8/07	1530	RP-TB-01		X					3							
10/8/07	1520	RP-MW-02		X				2	3	1	2	1	2	2	3	
10/8/07	1520	RP-MW-05		X				2	3	1	2	1	2	2	3	

TEMP. 4.6 / 4.0

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Allyson Warrington	10/8/07	2000 (EST)	Allyson Warrington	10/8/07	2000			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Allyson Warrington	10/5/07	1200						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
Karl A Hall	101007	0912	YES ○ NO ○		680-30941	

KARL I HALL

STL-8240-680 (12/02)

Page 41 of 42

Login Sample Receipt Check List

Client: TN & Associates

Job Number: 680-30941-1
SDG Number: 30941

Login Number: 30941
Creator: Hall, Karl I
List Number: 1

List Source: TestAmerica Savannah

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RP-MW-02: received 1 liter amber each broken for 508 & 515 analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

APPENDIX D

Log Book Notes

"Rite in the Rain"
ALL-WEATHER WRITING PAPER

ALL-WEATHER

ENVIRONMENTAL FIELD BOOK

Name: Adam Davis (TNA Sub (Aerostar)

Address: TNA Marietta, GA

Phone: 678 355 5550

Project: Red Panther Chemical Company
Clarksdale, Coahoma County, MS
TDD NO TNA-05-003-0004
Book 1 of 2 (Adam Davis entries)

This book is printed on "Rite in the Rain" All-Weather Writing Paper. A special pulp, treated to shed water and enhance the written image, it is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

Specifications for this book:
Page Pattern: Cover Options
Polyester Cover | Fabrikoid Cover
Item No. 3568
© 1995 J. L. DARLING CORP

CONTENTS

Reference Page Index

CONTENTS

PAGE	REFERENCE	DATE

Location Red Panther Clarksdale MS Date 10/8/07

Project / Client TDD TNA-05-003-0004.

WEATHER FORECAST: HIGH 90 LOW 70 LIGHT SE WIND 0-10. 30% CHANCE AFTN

0740 - Depart Hotel.

0800 - Arrive on site. Site Personnel: Kelley Patten - TNA, Michael Thompson - TNA, Adam Davis (TNA Sub Aerostar), Matthew Arceneaux (Aerostar), Drillers Tim Myers & Rodney Brassfield (Miller Drilling Co. Lawrenceburg, TN).

0810 - Site Safety Brief with all above. Major topics discussed: - Pinch Points - Overhead utilities - Weather (Heat / Hydration) - Underground Utilities - Chemicals of Concern. All sign off on HASP.

0850 - Drillers set up decon pad on SE corner of yard near Shipping Department water connection.

0900 - Atmos Energy (Utility Locator) arrives on site to mark utilities in vicinity of temp. well locations.

0905 - Drillers complete decon of equipment.

10/8/07

Location Red Panther Date 10/8/07

Project / Client TNA 05-003-0004

0940- Driller set up on RP-TW-08.
0945- Starts pushing w/ Geoprobe.
0950- Metals blank collected (2-1L plastics).
1007- Equipment check & calibration.
1057- Begin development of RP-TW-08 with peristaltic pump & Teflon tubing. Water level @ 12.59 below top of casing. Purge rate of aprox. 1 gal/min (gpm). Changed purge rate to 0.4-0.5 gpm and water level in well holds @ 13.00 'BTOC. Adjust purge/develop rate to max rate on pump of aprox. ~~X~~ 30 gpm.
1120- Check Turbidity RP-TW-08. Turbidity = >1000 NTU. Continue development.
1122- Change power source of pump to battery. Purge develop rate = 0.4 gpm.
1150- Check Turbidity (NTU) on well. ~~Well~~ Turbidity = 204 NTU.
~~Off Sc Sml.~~
1157- Discontinue Well development RP-TW-08.
10/8/07

Location Red Panther Date 10/8/07

Project / Client TNA 05-003-0004

1200- Prep. for Well Purging of RP-TW-08.

RP-TW-08 PURGE DATA:
Initial Depth to Water (DTW):
Start Time: 12.22 Purge Rate: 0.06 gpm
Total Depth of Well: 25.12
Length of Water Column: 25.12 - 12.59 = 12.53
Well Volume = 12.53 x 0.041 = 0.51
3 Well Volumes = 1.54.

TIME	VOL GAL	TEMP °C	COND mS/cm	DO mg/L	pH SU	ORP mV	TURB NTU
1230	0.48	25.69	0.448	0.77	6.16	-31.4	204
1234	0.72	25.69	0.467	0.52	6.18	-45.3	326
1238	0.96	26.49	0.471	0.39	6.21	-49.3	313
1242	- Pump circuit breaker tripped.						
1246	- Reset breaker & pump back to 300 RPM						
1250	1.20	26.26	0.467	1.29	6.08	-45.4	379
1254	1.44	25.48	0.454	1.79	6.22	-35.2	248
1258	1.68	25.32	0.469	0.61	6.15	-38.9	224

1300- Stop Purge & Collect Samples for RP-TW-08 & MS/MSD.
Samples IDs as ~~follows:~~ (see page "A" Contents)
1410 Begin development of RP-TW-06 with peristaltic pump & Teflon tubing. Water level TOC 17.6 and total

Location Red Panther Date 10/8/07

Project / Client TNA - 05 - 003 - 0004

depth is 42.2 Total depth from top of casing

PURGE RATE of approximately 425ml/min.

1437 Turbidity at 234 & WATER DEPTH is 23.28

1456 turbidity @ 126, purged 5gals total

1508 turbidity @ 150, purged 6gals total

1520 turbidity @ 168, purged 8gals total, 10gals total purged

24.95 depth to water = (42.2 - 24.95) x 0.41 = 0.69 gal/min

@ Time	Vol gals	temp °C	cond ms/cm	DO mg/L	pH s.u.	ORP mV	turbidity ntu
3:38	0.3	21.75	0.843	2.36	6.51	-18.5	255
3:43	0.6	21.69	0.842	2.24	6.49	-16.1	248
3:48	0.9	21.53	0.840	2.08	6.45	-16.6	121
3:53	1.2	21.49	0.837	1.91	6.44	-16.3	69.1
3:58	1.5	21.56	0.842	2.54	6.46	-17.5	35.7
4:03	1.8	21.64	0.841	2.18	6.50	-15.0	?
4:08	2.1	21.62	0.840	?	6.5	-15.1	248

4:13 Samples Collected - RP-TW-06

3 VOA Vials, 6 - 1L Ambers (SVOC & BNA/Pest), & 2 - 1L Plastics (Metals & Cyanide). *Note above times from 3:38 Entry were incorrectly written (ie. not written in military time). 3:38 entry should have been 1538, 3:43 should have been 1543, etc. SR 10/8/07

Location Red Panther Date 10/8/07

Project / Client TNA - 05-003 - 0004

RP-TW-06 Sample time listed on chain as 1613.

[Note*] - Entries in logbook from 1410 to 1613 were made by Matt Arceneaux & Michael Thompson. Entries made from 1613 on made by Adam Davis.

1630 - Collected Rinsate off of decontaminated Geoprobe rod. (3 VOA vials, 2 - 1L plastics, 6 - 1L Ambers)

1700 - Collected Metals Blank (1-L Poly).

1730 - Collected TIP Blank - RB-TB-01.

Late Note: 1630 - Depart Site.

0745 arrived at site

0800 - moved to RP-TW-05

0820 - began development of RP-TW-05 @ purge rate of 0.5 max pump

- purging began @ 0900, took longer to set up than expected

Location: Red Panther Date: 10/9/07

Project / Client: TNA-05-003-0004

0900

gauging well / depth to water 24.8 feet
total well depth 47.8 feet,
permanent 2 inch monitoring well located
at NNW corner of warehouse building
south of office and labs

MW-05 well; depth to water to drop
for peristaltic pump will begin
development with bladder pump.

1100 moved to permanent monitoring well to
be named later, ~~suspected~~ monitor well -02
depth to water was 47.8 feet, water was 24.8 feet
below top of casing, from top of casing to
ground is 3.5 feet. This well is a 2 inch
PVC casing and was placed here prior to arrival
at site. The 2" factor is 0.163,
began development @ 1200; van got stuck during
transferal to MW-02

1200 - began development @ 0.75 full
power of pump

1200 turbidity of 461

broke for lunch, restarting after lunch

Location: Red Panther Date: 10/9/07

Project / Client: TNA-05-003-0004

1240 - began development of MW-02
1240 - initial turbidity - 164, 0 gals pumped
1255 - turbidity at 119 ntu, 3.5 gallons pumped
1310 - turbidity at 106 ntu, 4.5 gals pumped
1325 - turbidity at 80.7 ntu, 5.0 gals pumped
1440 - turbidity at 20.7 ntu, 5.5 gals pumped
step development @ 1441, gallons total pumped
1442 - set up for purge of R.P. MW-02

R.P. MW-02 purge data

initial depth to water 29.7 feet below top of casing
total depth of well 47.8 feet; length of H2O col. 18.1 feet
3 purge vols (gals) = 3 × (0.163 × 18.1) = 9.0 gals
start time 1445 of purging
purge rate of 591 mls in 1.5 mins; 1.5 mins / 850 ml = 11 mls/gal
time to purge 9 gals is 99 mins,

time HHMM	cum vol (gals)	temp °C	cond ms/cm	do mg/L	pH su	orp mv	turb ntu
1350	~~1450~~ 1450 ms	0.5	21.70	0.813	0.45	6.80	-43.3	200
1400	~~1500~~ 1500 ms	1.5	22.04	0.788	0.34	6.77	-41.2	139
1410	~~1510~~ 1510 ms	2.5	22.07	0.790	0.98	6.79	-35.8	276
1420	~~1520~~ 1520 ms	3.5	21.80	0.788	0.34	6.78	-39.2	236
1440	~~1540~~ 1540 ms	6.0	22.35	0.791	0.30	6.81	-42.6	293
1450	~~1550~~ 1550 ms	7.5	22.41	0.791	0.28	6.79	-44.1	383
1500	~~1600~~ 1601 ms	9.0	22.32	0.792	1.06	6.83	-34.6	301

stopped purge @ 1601 ms, 1501

10

Location Red Panther Date 10/10/07 2nd

Project / Client TRA 05-003-0004

began sampling MW-02 @ ~~1501~~ 1501 no

samples collected for voa's (3-40mls, metals-cyanide, 2-1L poly's, BNA pests + semivols, 6-1L amber glass bottles)

stopped sampling at 1530

Note* Preservative Samples were made by Michael Thompson at 1450

began sampling MW-02 dups at 1531

samples consisted of (3-40mls for voa's) (metals-cyanide, 2-1L polys), BNA pests + semivols, 6-1L amber glass bottles)

stopped collecting at 1610

Note* RP-TW-05 was purged dry at 1000, let sit and fill for an hour

RP-TW-05 was purged dry at 1130, let sit and fill for an hour

Note* sample times on previous page for purge times and cessation of purge times were each ahead by 0100, this 1st purge reading should read 1350, stop purge time should read 1501, and starting sampling time should read 1501. Correct time begins at "stopped sampling at 1530" sampling time for MW-02 is 1501 for sample and duplicates

11

Location Red Panther Date

Project / Client TRA 05-003-0004

moved to RP-TW-05 @ 1615

initial depth to water 34.72 ft. btoc

insufficient amperage on battery, waited to move van around to attempt sampling

started sampling @ 1638

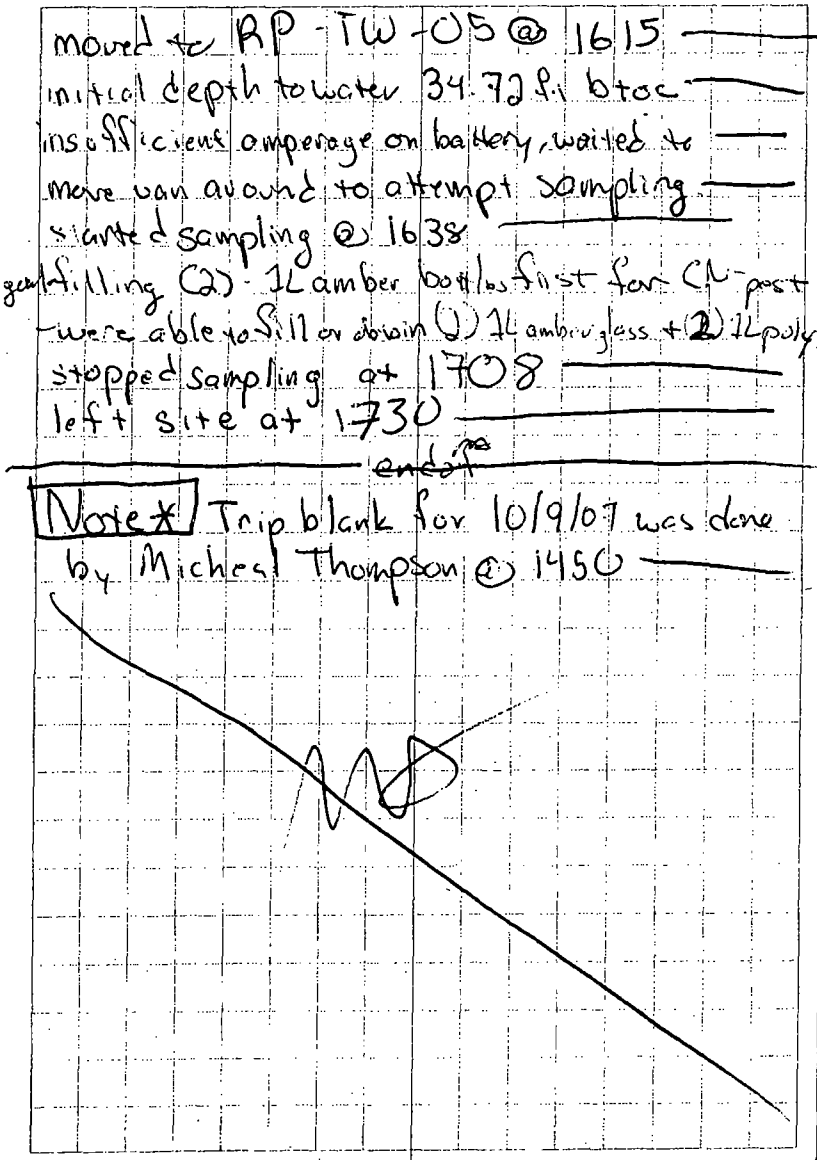
gravity filling (2)-1L amber bottles first for CN-post were able to fill or obtain (1)-1L amber glass + (2)-1L poly.

stopped sampling at 1708

left site at 1730

end

Note* Trip blank for 10/9/07 was done by Michael Thompson @ 1450



Location: Red Panther Date: 10/10/07

Project / Client: TWA-05-003-0004

Weather clear Low 70's High mid 80's

0755 TN2A & Miller on site

Aerostar at hotel packing coolers

0750 Drillers setting up to install 45' well @ Tw-07

0755 Collect 3 VOA's from Tw-05, Finished Kelly Patten, Michael Thompson begin

0940 check for water for previous installed at TW-07; 25.55 water depth at 45 foot well

1006 Begin purging, initial turbidity reading was 191 ntu

1010 stopped purging and added 6 foot of tubing

1050 Turbidity reading at 1000 ntu and greater

1106 stopped Development of TW-07 and prep for purging

Initial depth to water is 26.55 from top casing

Total depth of well is 45ft, Water length is 13.45

3 purge vols (gals) = 3(0.041 x 13.45) = 1.65

Start time of 1115 purging

Purge rate of 59 mls in 4.5 minutes; 4.5 mins = 34 / 590 / 132

Time to purge 6.65 gallons is: 34 mins

Time	Volume	Temp	Cond	Do	PH	ORP	Turb
11:43.5	26.89	.486	7.54	7.55	-106	363	

paused purge at 11:44AM

Restart Purge Works at 12noon

1200.5 26.79 1.60 6.49 7.09 -85.7 203 ntu

Location: Red Panther Date: 10/10/07

Project / Client: TWA-05-003-0004

Weather clear at mid 80's

Time	with	Temp	cond	Do	PH	ORP	TURB
1220	1.5	26.11	89.1	9.57	7.21	-84.8	85.7 ntu
1230	1.65	25	39	64.4	5.08	6.95	-66.4 105 TW-07

* stop purging at 1230 and begin sampling

1235 collect 3 VOA's

1236 start collect of 2 poly's

1245 complete poly collection, begin AMBER collection

1315 completed collection of 4 Amber Bottles per Analysis

1340 prep development of TW-09 at 35 Foot well

Ro.31 water and total depth of 35 Ft

18.69 Ft of water column yielding 1 well volume of .77 gallons, 3 well volumes is 2.30 gallons

1352 - Start development of RP-TW-09 (Adam Davis).

Pump rate = 0.07 gpm.

Turbidity (initial) = >1000 NTU.

turbidity @ 1415 = 216 Ntu

1420 M. Thompson returned from lunch after leaving before prep of RP-TW-09 at 1340; change power source from Battery to Vehicle

1440 Turbidity check at 92.9 ntu

1451 Turbidity reading is 59 ntu

1455 Turbidity reading is 26.1

1500 Purge begin at 1500 hrs, collected 4.5 gallons of developed water in approx. 1 Hr.

Average pump rate for development = 0.115 gpm

Red Panther — 10/10/07

TW1-~~05~~09

Weather at About 85° with clear skies

Time	Vol/gallons	TEMP °C	cond ms/cm	DO mg/L	P.H.	ORP mV	TURB NTU
~~In Casing~~							
1505	.38	25.12	.610	1.21	6.97	-99.1	216
1515	.76	24.86	.607	1.39	6.91	-87.7	192
1525	1.14	24.46	.603	1.47	6.89	-78.2	65.8
1535	~~1.52~~ 1.53						
~~1545~~	~~1.90~~						
~~1555~~	~~2.28~~						

well purged dry @ 35 Ft. will allow well to recharge overnight & sample on 10/11 1st.

~~Purge rate at 355ml in 3.5~~ 1min = ~~355(.132) = 8~~

~~Time to purge is 8 mins to~~

~~Complete for Day at 09 And began pulling At 1000hrs~~

Purge rate of 0.04 listed above is incorrectly reported. Purge rate must have exceed rate of development at 0.07 gpm due to fact that well purged dry after 35 minutes. Actual purge volume should have been > 2.45 gallons.

1640 — K. Patten & M. Thompson depart site for Fed Ex.

Location: Red Panther — Date: 10/11/07

Project / Client: TWB-05-CC3-00011

Weather Clear low 60's High 70's

0730 TWSA on site — on-site.

0750 Sample TW-05 - Hollsweep

0840 Start develop TW-01

TD 35' DTW - 22.50

0855 Dried well to 30' recharged to 27' in 30 min. Developed .75 gal.

0930 Arrested on site. Adam Left On set string To bail TW-01 Orgn.

0939 Miller developed 8 gal from TW-~~02~~01 developed from 0500 to 0900

Began bailing TW-~~02~~01 at 1000 bailing ~~it~~ dry. it bailed dry at 1015 — was developed dry

Moving to TW-02 at 1015

well was developed by drillers, from 800 to 900, total development volume was 8 gallons

total well depth is 35 feet

initial depth to water 9 3 ft

length of column is 35 - 93 = 25 feet

1 well volume is 1.02 gallons

total purging amount is 3.00 gallons (Length of column (ft) x .041 x 3)

beginning purge of TW-02 at 1030 - purge rate of 0.500L in 1min

$\frac{.54}{1\text{min}} = \frac{1gal}{3.785L} = 0.13$ gal/min, adjusted flow to 0.125 g.p.m

Location Red Poulher Date 10/11/07

Project / Client TNA "05 003 0004

time HHMM	vol gals	temp °C	cond mS/cm	do mg/L	pH	orb	tur ntu
1040	0.2	20.54	2076	3.38	7.01	-81.8	724
1045	0.8	20.60	2084	1.20	6.96	-91.8	538
1050	1.5	20.83	2.084	0.68	6.91	-92.1	373
1055	2.0	20.83	2.090	0.96	6.95	-90.3	267
1100	2.5	20.84	2.094	0.54	6.95	-88.5	196
1105	3.0	20.87	2.091	0.69	6.88	-86.4	112

Stopped purge at 1106

Began sampling at 1107

samples consisted of (2) 1L poly's (cyanide + metals), (3) 40mL voa's (volatiles), and (6) 1L ambers (gasoline, BNA + SVA)

stopped sampling at 1131,

broke for lunch at 1132

returned to site @ 1228

RP TW-01; depth to water 24.00 feet - 1240 Return from lunch and begin sampling at TW-01, water depth is 24.01, well was initially developed dry, sampling begin with no parameters, 3 voa 1 poly 1.5 Amber

1315 sampled Drums.

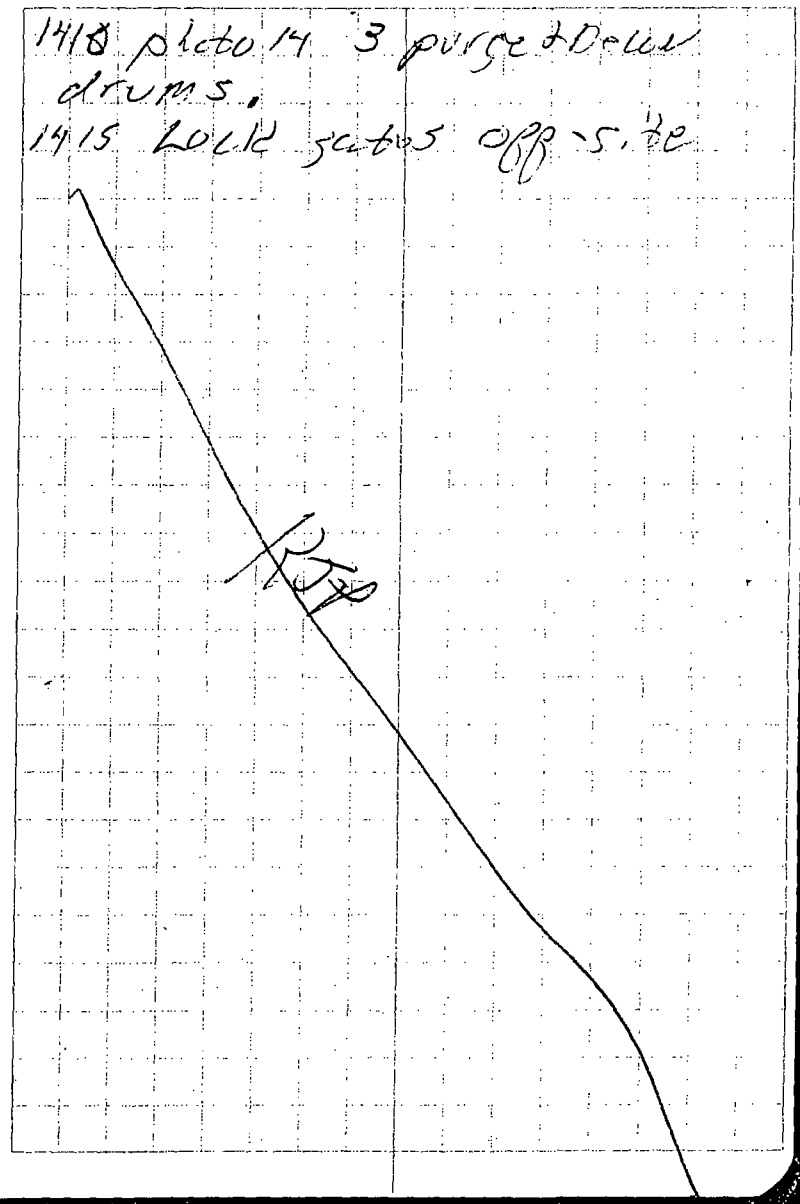
1400 Called Mr. Perry he stated To leave keys in SV11 next to trailer 088.00

Location Red Poulher Date 10/11/07

Project / Client TNA-05-003-0004

1418 pick up 14 3 purge 2 Decon drums.

1415 Load 5 cubes off -5.2c



Location Red Panther Date 10/11/07

Project / Client TNA 05-003-0004

1300 - Meet w/ Richard Antici (Town of Lyon Well operator) @ Lyon Municipal Well located off Hwy 61, NE of Clarksdale, just NW of intersection of Hwy 6 & Hwy 61. GPS location: 34.21576°N, 90.54241°W.

1310 - photograph site.

1315 - Collect Samples from well near pump @ spigot before chlorination.

1320 - photograph sample location, water tower & site entrance.

1350 - Complete sample collection.

- Depart Site, Richter locks gate & turns off pump.

- Samples collected designated as RP-MW-01. 16 bottles for analysis (same as RP-MW-03).

10/11/07

Location Red Panther Date

Project / Client TNA-05-003-0004

1400 - Collect Trip Blank (RP-TB-04) 3-40mL VOAs.

1500 - PACK COOLERS FOR OFFSITE WELLS TO STL COC SN 73779, FEDEX TRACK # 8630 3433 7993.

GPS

TW-01 →	N 34° 11' 11.7"	W 90° 33' 39.6"
-02 →	N 34° 11' 18.4"	W 90° 33' 46.6"
-03 →	N 34° 11' 16.5"	W 90° 33' 41.0"
-04 →	N 34° 11' 17.1"	W 90° 33' 43.1"
-05 →	N 34° 11' 14.1"	W 90° 33' 45.7"
-06 →	N 34° 11' 12.3"	W 90° 33' 45.2"
-07 →	N 34° 11' 14.2"	W 90° 33' 43.0"
-08 →	N 34° 11' 10.5"	W 90° 33' 43.4"
-09 -	N34° 11' 13.2"	W 90 33' 40.8"

"Rite in the Rain"
ALL-WEATHER WRITING PAPER

ALL WEATHER

ENVIRONMENTAL FIELD BOOK

Name Kelly Patton TNAB

Address

Phone

Project Red Panther Chemical Company
Clarksdale, Coahoma County, MS
TDD No. TNA-05-03-0004
Book 2 of 2

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or our all-weather pen.

Specifications for this book:

Page Pattern		Cover Options	
Lab Notes	Field Data	Polydura Cover	Fabrikoid Cover
Custom	Full Grid	Item No. 950	Item No. 3504

© 1996 J. L. DARLING CORP.

CONTENTS

PAGE	REFERENCE	DATE

Reference Page Index

CONTENTS

PAGE	REFERENCE	DATE

Location Red Panther Clarksdale MS Date 10/8/07

Project / Client TDD TNA-05-003-0004

Weather Forecast H: 86 90 Low 70

0940 Set up on TW-08 hand auger To 5'

5-10' LT grey/Tan VFG sandy silt

10-15 SAA

15-18 SAA

18-20 Dark grey VFG sandy silt

20-22 SAA water

22-25 Dark grey VFG sandy silty clay

25-30 SAA

1030 Set 1" well @ 25'

1130 Set up on TW-06 Hand auger to 5'

1200 Tried to set well @ 25', hole collapsed. Pushed Rod second time to clear hole.

1300 pushed to 35' water @ bubbles of point. Changed to 2" pipe Pushed to 40' to set well.

BTW 17.6 from TOC

TD 42.2 " "

1440 Set up on TW-05 Hand auger to 5'

1451 Leave site (Adam & Allyson - go to City of

Location Red panther Date

Project / Client

Clarksdale Utility Dept.

1502 Spoke w/ Rusty → showing us Clarksdale well 08 (shallow) – RP-MW-04

1505 – Arrive at Clarksdale well #14 → TN+A RP-MW 02 (deeper)
→ pre-clearination — turn on well

1518 Start sampling & collecting duplicate

1530 Raining – continue sampling

1535 Sit in truck

1547 Continue sampling – still raining

1630 In hotel – ready for shipment packing
– RP-MW-02 time 1520
RP-MW-05 Duplicate of -02

Later note 1520 set TW-05

KTP

Location Red Panther Clarksdale Date 10/9/07

Project / Client TOO-05-003-0004

Partly cloudy High 90 Low 70

0615 photograph of GPS 10/8/07 locations
photo #1 TW-08 N 34° 11' 10.5"
W 090° 33' 43.4"

Photo #2 TW-06 N 34° 11' 12.3"
W 090° 33' 45.2"

Photo #3 TW-05 N 34° 11' ~~17.4~~ 14.1"
W 090° 33' 45.7"

0625 set up on TW-04 hand auger to 5' driller pushed to 60' no water. Spoke with Alyson will move to proposed TW-01 to try again.

Photo #4 proposed TW-04 N 34° 11' 13.2"
W 090° 33' 40.6"

Photo #5 TW-01 N 34° 11' 11.7"
W 090° 33' 39.6"

~~Set~~ 1100 set up on TW-01 hand auger to 5' driller pushed to 40'.

1215 DPT-site for lunch

1300 Begin pushing to 45'

1410 pushed to 60' no water
Drillers Decon Rods
Photo #6 Decon Pad

6

Location Red Rock Date 10/9/07

Project / Client TWA-05-003-0004

1450 Set up on TW-07 hand Auger DO 5' Pushed to 60' no water.

1830 Feet Rods in ground to see if there is water in the formation.

Photo #7 TW09 N 34° 11' 14.2"
W 090° 33' 43.0"

Location Red Rock Date 10/10/07

Project / Client TWA-05-003-0004

0820 Driller set to 45' well @ TW-07

0900 set up on TW-03 hand auger to 5' install well @ 45'

Photo #6 TW-03 N 34° 11" 16.5"
W 090° 33' 47.0"

1000 Remob to TW-09 to install 35' well.

1040 Initial DTW TW-09 20.55

1059 — Entries began by Adam Davis. Set up for Development of RP-TW-03. Initial Depth to water — 20.00' BGS. Total Depth — 45.00' BGS.

1100 — Start Development.

1104 — 1st Water pulled from well (RP-TW-03).

1106 — 550 mL of Water pulled from well = 0.132 gals in 2 mins.
= 0.132/2 mins, = 0.06 gpm

1109 — DTW = 24.90' BGS with ~ 0.54 gallons removed.

1115 — Increase purge rate to max pump rate of aprox 0.4 GPM.

1118 — Meas DTW @ 27.00' → 80

Location: Red Panther Date: 10/10/07

Project / Client: TNA 05-003-0004

1118 – Pump will not lift water from 27' BGS. Total volume of 0.17 gallons removed. Stopped Pump, allow water to recharge in well prior to purge for sampling.

1136 – DTW = 22.00', BLS,

1137 – Start Purge RP-TW-03

Initial DTW: 20.00'

Total DTW: 45.00'

Length WC: 25.00'

1 Well Volume: 1.04 gals

3 Well Volumes: 3.12 gals

Initial Turbidity: >1000 NTU.

TIME	VOL GAL	TEMP °C	~~Cond~~ COND ms/cm	~~DO~~ DO mg/L	~~pH~~ pH SU	ORP mV	TURB NTU
1140	0.3	32.34	1.806	0.75	6.83	-156	>1000 OOR
1144	0.5	32.29	1.794	0.69	6.74	-153	>1000
1147	0.7	32.07	1.783	0.60	6.69	-150	>1000
1150	0.9	32.00	1.770	0.62	6.73	-152	>1000
1155	1.1	31.93	1.777	0.50	6.75	-151	>1000
1159	1.3	31.92	1.775	0.47	6.75	-155	>1000

PURGE RATE – 0.05 GPM OOR Out of Range

Location: Red Panther Date: 10/10/07

Project / Client: TNA 05-003-0004

RP-TW-03 PURGE (CONT.)

TIME	VOL (DTW)	TEMP °C	COND ms/cm	DO mg/L	pH SU	ORP mV	TURB NTU
1218	2.2 (26.70)	31.85	1.746	0.30	6.80	165.1	553
1220		– INCREASE RATE TO 0.06 GPM –					
1228	2.8 (26.75)	29.64	0.820	0.90	6.85	-147	800
1232	3.04 (26.79)	30.46	1.76	0.82	6.79	-147	600
1240	3.52 (26.83)	29.12	1.75	0.73	6.76	-153	620

*1240 – STOP PURGE @ 3.52 Gals & COLLECT SAMPLES @ RP-TW-03 ~~FOR VOCATICS (30 mL Vials), SVOCs/PEST/PCB/TNA (6-2.5L Amber), DISSOLVED (1-1L poly HNO3), & CYANIDE (1-1L poly NaOH).~~

1330 – Stepped sampling at 1330, samples collected were (2) 1L amber glass (pest.), (1) 1L poly_metals), (3) 40mL VOAs.

1402 – Start development of RP-TW-04. Pump rate of 0.1 GPM – Initial Turbidity = >1000 NTU –

10/10/07

Location Red Panther Date 10/10/07

Project / Client TNA 05 - 003 - 0004

1413 - RP-TW-04 Development (Cont.)
Pump clogged w/ sediment with tubing @ 20' BGS.
1415 - Clean pump & restart development.
1418 - Pump clogs again.
1430 - ~~Clean out~~ Replace tubing & pump and start development again.
Depth to water 16.5 BGS -
Pump rate 0.1 GPM -
Turbidity = >1000.
Lake Vobe KSP
1045 Set up on TW-04 hand auger to 5' Set well @ 35'
Photo #9 N 34° 11' 17.1"
W 090° 33' 49.1"
1300 set up on TW-02 hand auger to 5' set well @ 35'
photo #10 N 34° 11' 16.4"
W 090° 33' 46.6"
1340 Remob to TW-01 Set well @ 35'
MW-2 Photo #11 N 34° 11' 13.5"
W 090° 33' 42.8"
Photo #12 Building with Tarp
Photo #13 5 gallon buckets of Tar

Location Redpanther Date 10/10/07

Project / Client TNA 05 - 003 - 0004

* 1500 - collect trip blank RP-TB-03
1505 began purge of TW-04
total depth of well 35.00 feet
initial depth to water was 16.31 feet
length of water column was 18.69 ft
1 well volume is 0.74 gallons, total purge volume is 2.12 gallons
Initial turbidity >1000 NTU

time	vol	temp	cond	do	pH	orp	turb
HHMM	gals	°C	~~mS/cm~~ mS/cm	mg/L	SU	mV	NTU
1505	0.5	22.05	0.628	0.55	6.87	-211.0	>1000
1515	1.0	21.78	0.596	0.17	6.79	-200.1	>1000
1520	1.5	21.67	0.594	0.08	6.81	-199	>1000
1525	2.0	21.76	0.583	0.06	6.81	-199.3	>1000
1530	2.5	21.77	0.575	0.05	6.82	-198.0	>1000

1531 - stopped purge
* 1532 began sampling of RP-TW-04
Samples collected for full suite (3 - 40 mL VOAs, 6 - 1 L Ambers. Pest/PCBs/BNA/Semivs, 1 - L Poly Metals, 1 - L Poly Cyanide.
1630 - Complete sample collection @ RP-TW-04. Transfer purge water to drums on site near decon pad.
10/10/07

12

Location: Red Panther Date: 10/10/07

Project / Client: TNA - 05-003 - 0004

1040 - K. Patten & M. Thompson depart site for FedEx w/ 10/9/07 Samples 3 Coolers (CLP) & 1 Cooler (SR).

1045 - Spoke w/ Richard Anthei (Lyon Municipal Wells contact) & arranged to sample Lyon well on 10/11/07. Contact # for Anthei is 662-645-0646.

1050 - Called in Sample times to K. Harrington.

1700 - Lock site & depart to hotel to prep 10/10/07 samples for shipment to Lab.

1715 - Re ice all samples from 10/9/07.

10/10/07.

13

Location: Red Panther Date: 10/11/07

Project / Client: TNA - 05 - 003 - 0004

WEATHER = CLEAR 60°F; 5-10 N WIND

1030 - Meet Rusty w/ Clarksdale Public Utilities at Clarksdale well #17. Our designation is RP-MW-03. Well located on NE side of Clarksdale near RR Tracks & Mill Creek aprox. 1.3 miles NNE of Red Panther Site. GPS: 34.20912°N, 90.54951°W.

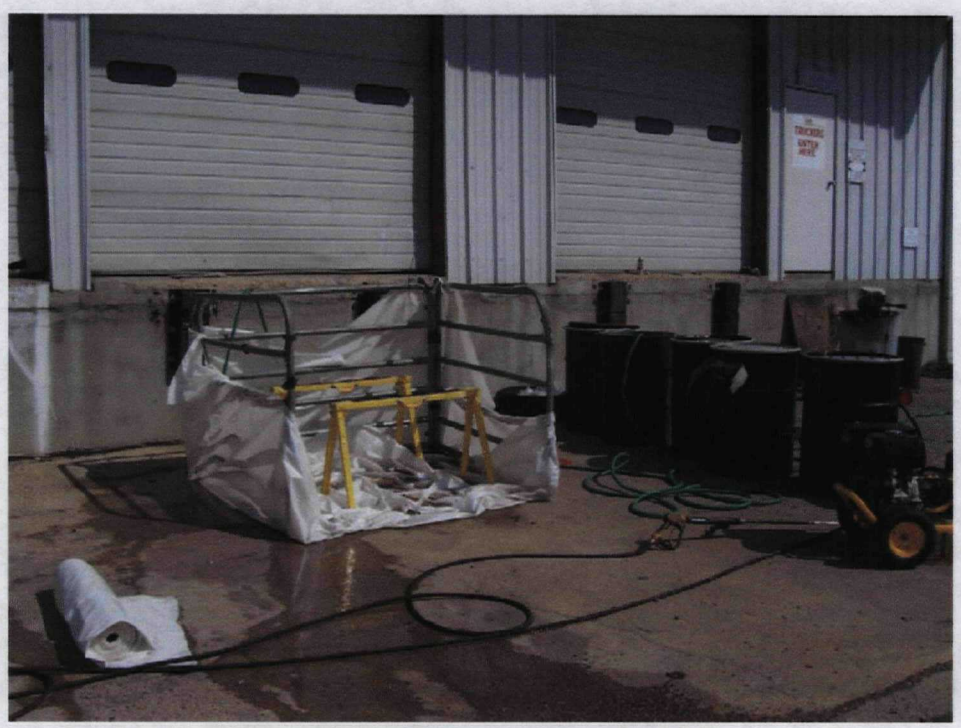
1040 - Collect photographs of well location & sample location.

1050 - Collect samples from spigot at wellhead upstream of chlorination. Samples collected for Methods: 508 (2), 524.2 (3), 200.8 (1), 8081A-8082 (2), 335.4 (1), 515.1 (2), 525.2 (2), 504.1 (3). Take photographs of sample collection & turn off pump.

1100 - Place samples on ice in cooler, lock gate, & depart site.

APPENDIX E

Photographic Log



Official Photograph No. 1

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	Decontamination pad		

Official Photograph No. 2

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	Investigation-derived waste drums		

Official Photograph No. 3

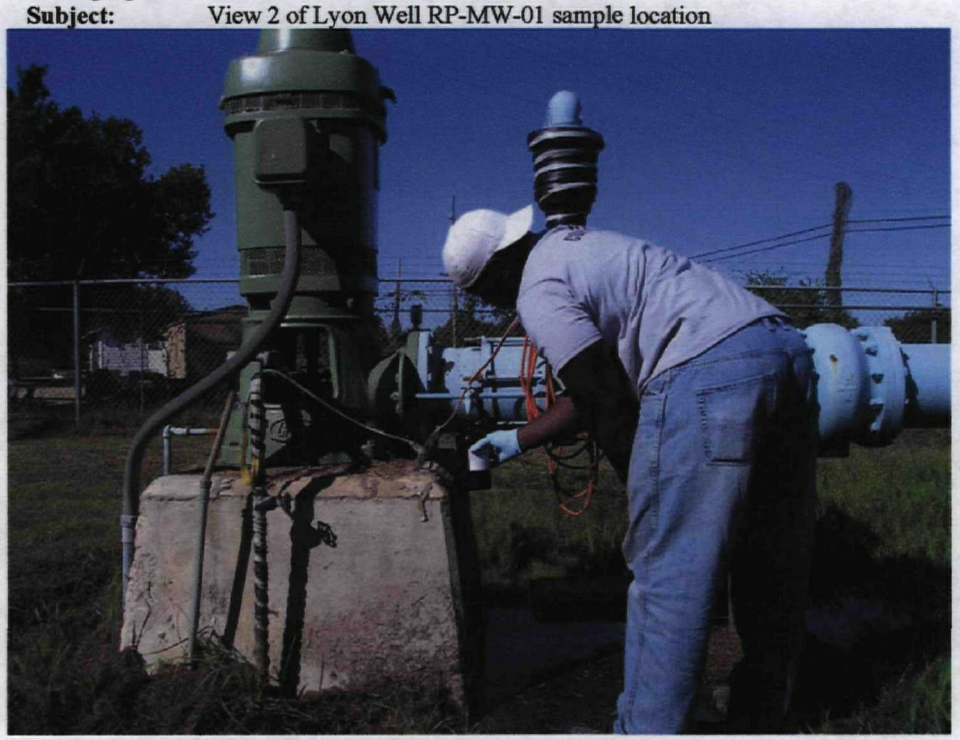
Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	On-site Well MW-02		

Official Photograph No. 4

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	Lyon Well RP-MW-01 sample location		

Official Photograph No. 5

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	View 2 of Lyon Well RP-MW-01 sample location		

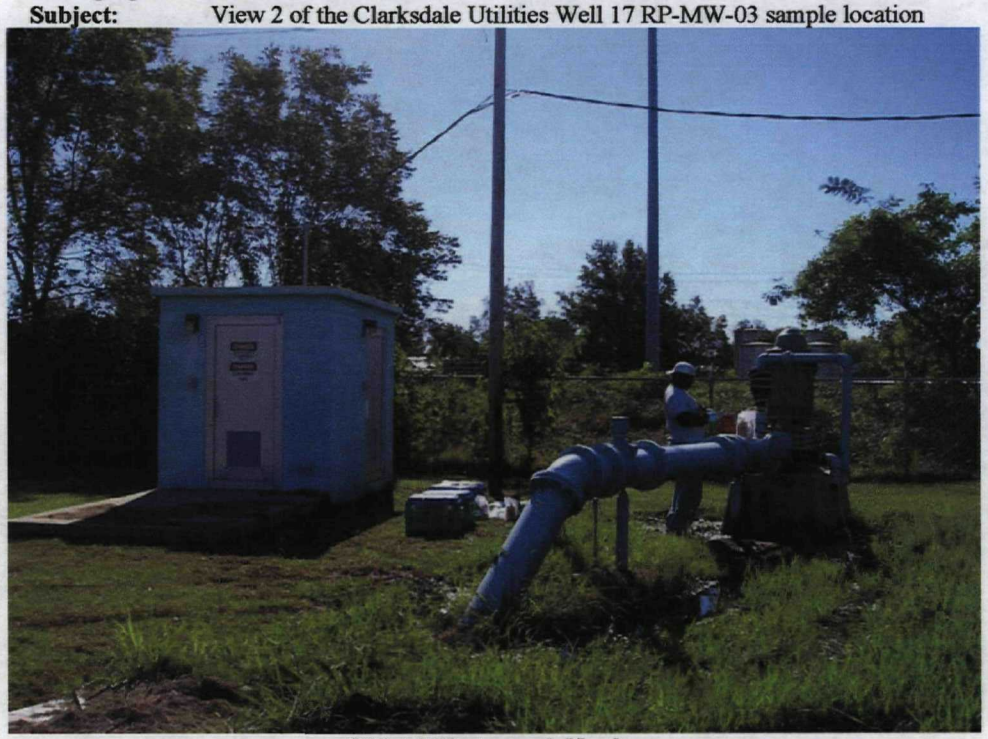


Official Photograph No. 6

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	Clarksdale Utilities Well 17 RP-MW-03 sample location		

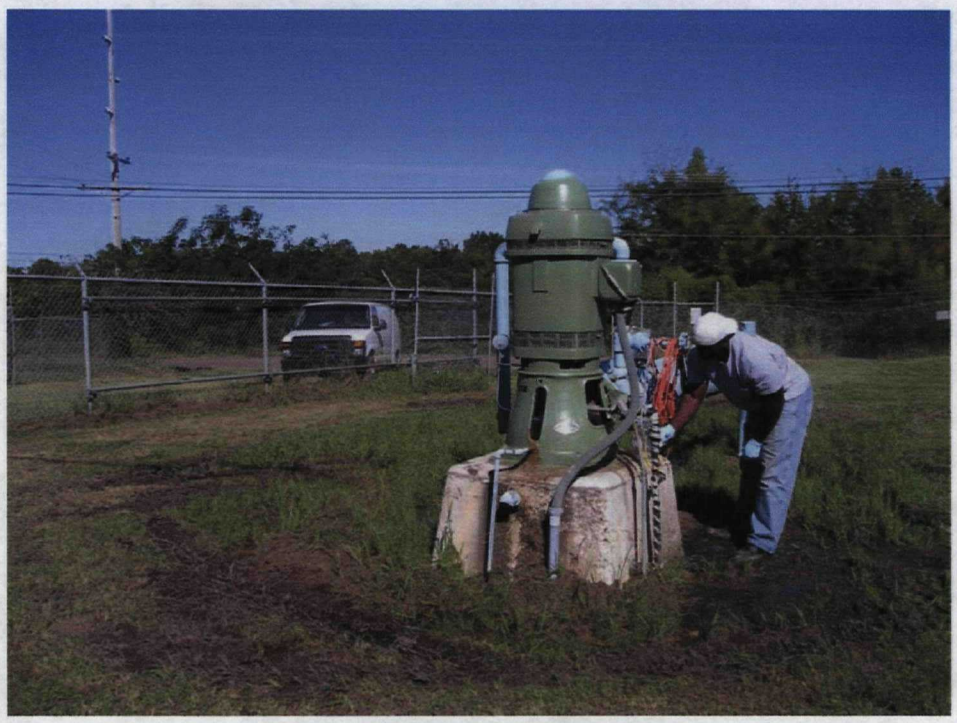
Official Photograph No. 7

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	View 2 of the Clarksdale Utilities Well 17 RP-MW-03 sample location		



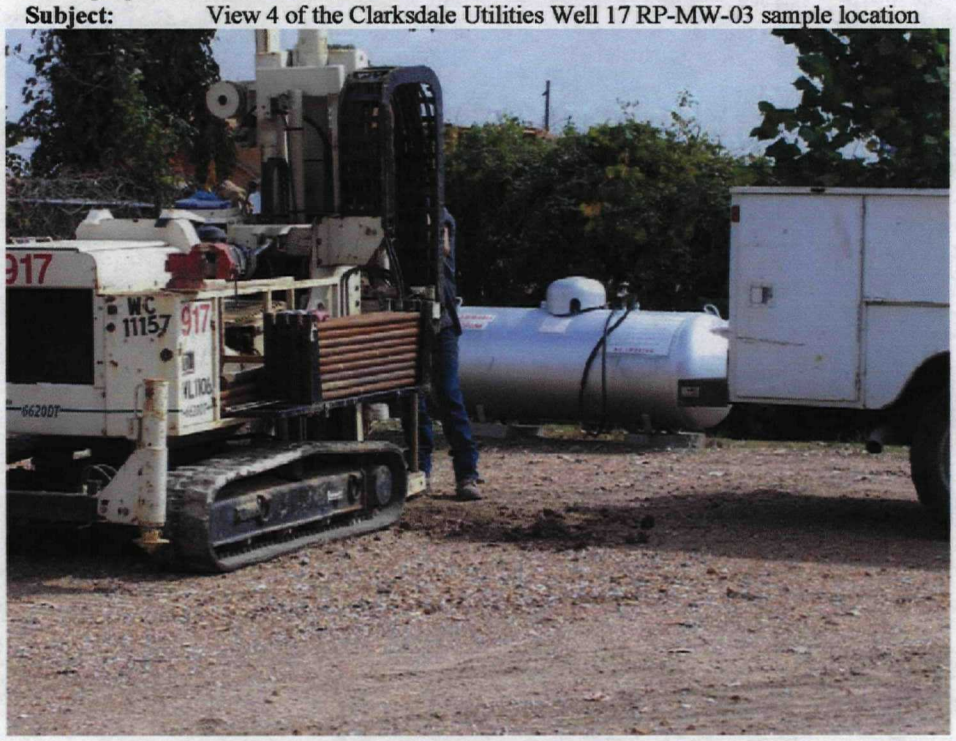
Official Photograph No. 8

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	View 3 of the Clarksdale Utilities Well 17 RP-MW-03 sample location		



Official Photograph No. 9

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Adam Davis, START		
Subject:	View 4 of the Clarksdale Utilities Well 17 RP-MW-03 sample location		

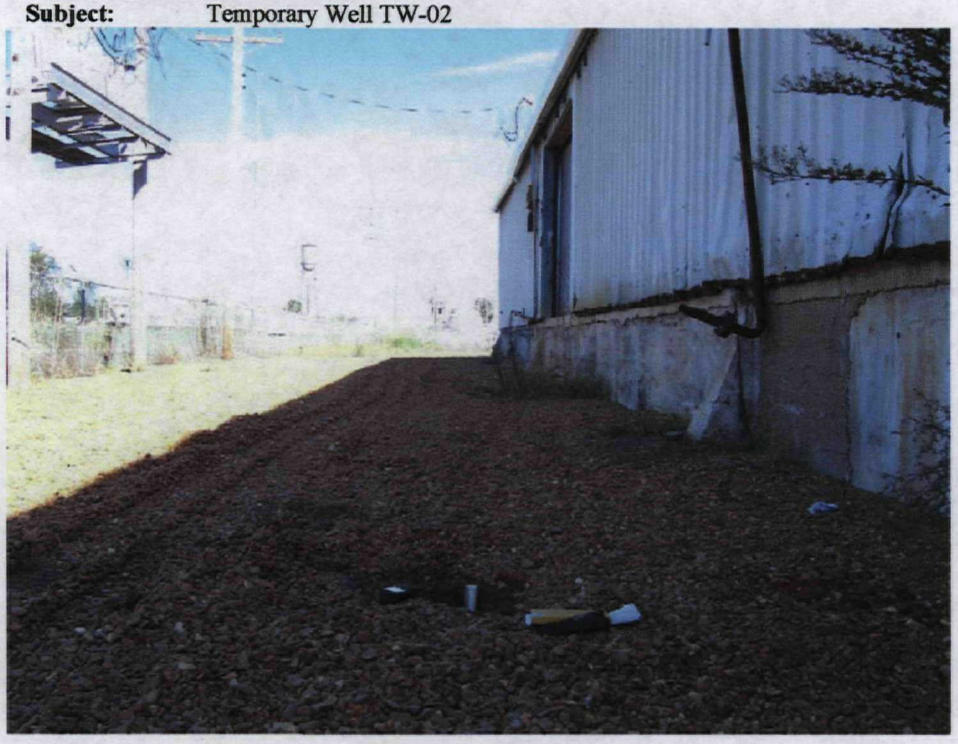


Official Photograph No. 10

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-01		

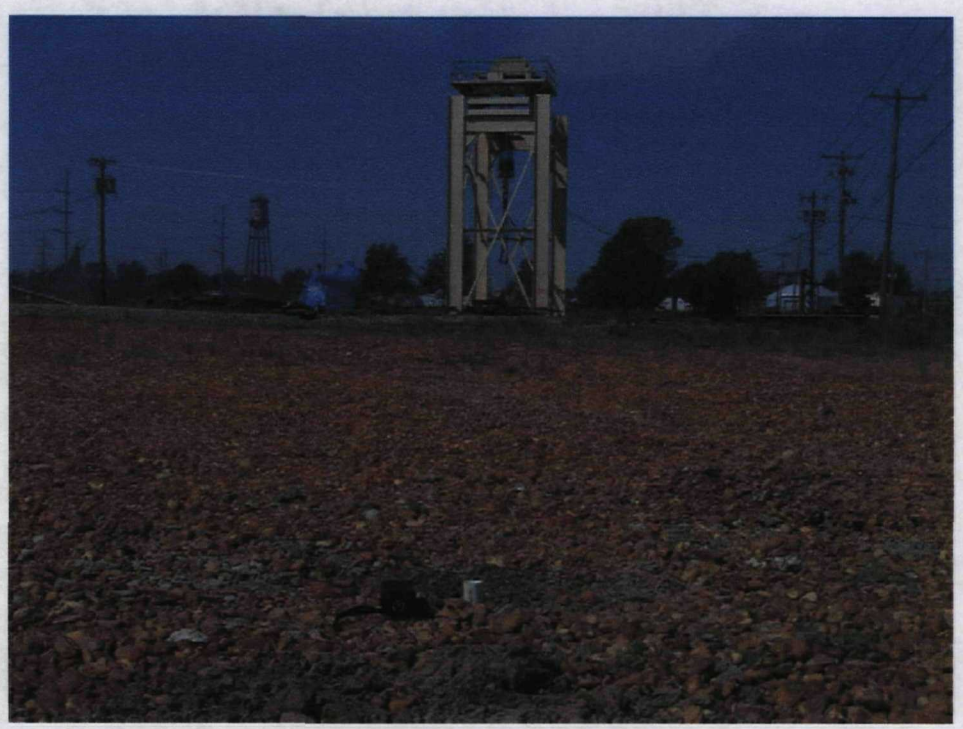
Official Photograph No. 11

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-02		



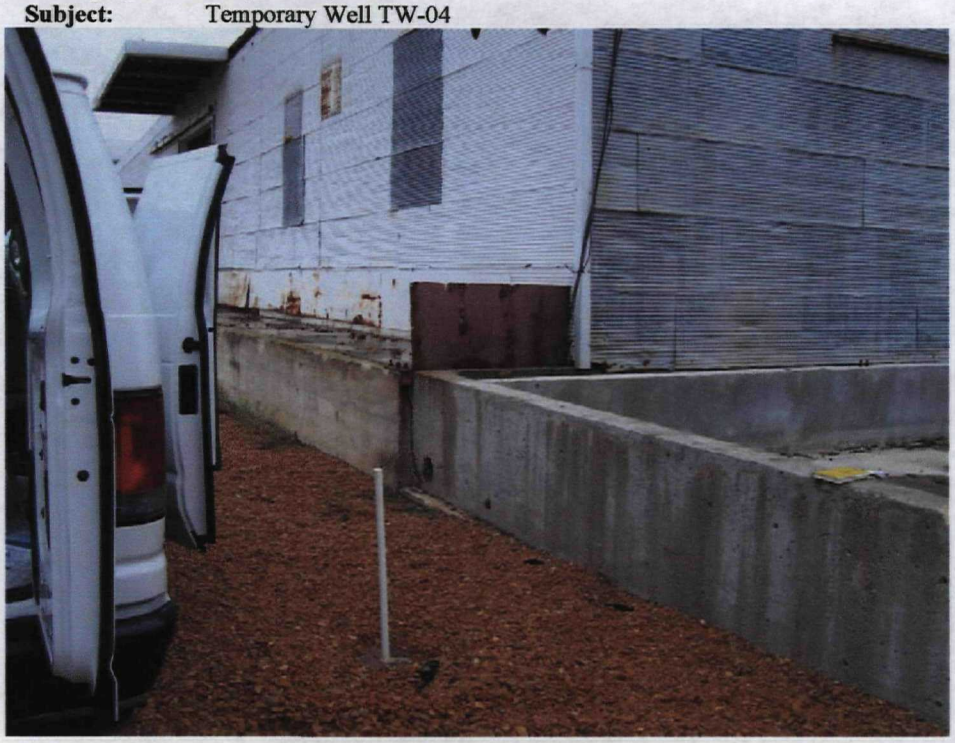
Official Photograph No. 12

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-03		



Official Photograph No. 13

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-04		

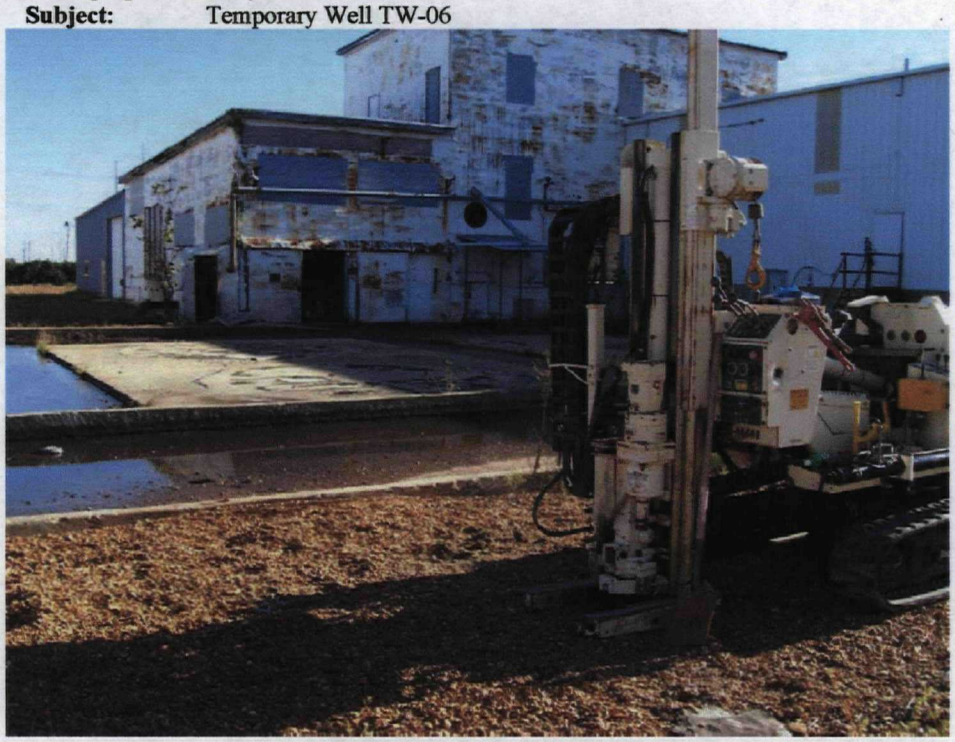


Official Photograph No. 14

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-05		

Official Photograph No. 15

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-06		

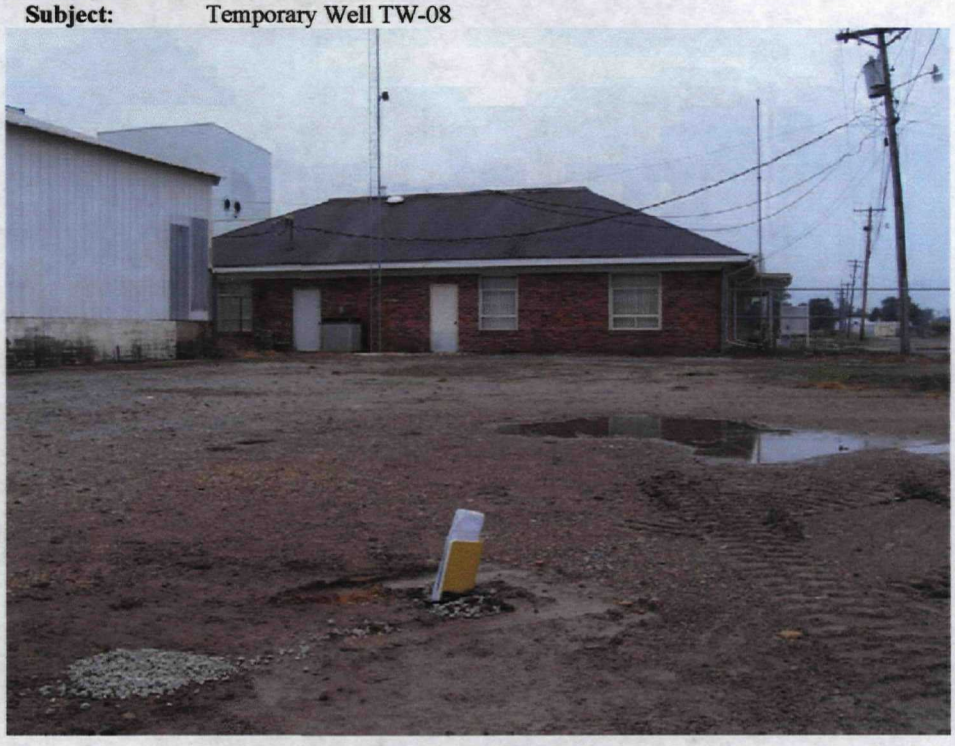


Official Photograph No. 16

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-07		

Official Photograph No. 17

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-08		



Official Photograph No. 18

Site Name:	Red Panther Chemical Company	**Date:**	October 8-11, 2007
Location:	Clarksdale, Coahoma County, Mississippi	**TDD No:**	TNA-05-003-0004
Photographer:	Kelly Patten, START		
Subject:	Temporary Well TW-09		