

Quarterly Groundwater Monitoring Report Red Hill Fuel Storage Facility

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Executive Summary

Introduction

There are 18 active and two inactive, 12.5 million gallon, field-constructed underground storage tanks (USTs) located at the Red Hill Fuel Storage Facility (the Facility). Previous environmental site investigations indicated a release has occurred and contaminated the groundwater underlying the Facility.

The United States (US) Navy implemented a groundwater monitoring program, which includes collecting groundwater samples quarterly from US Navy Well 2254-01 (RHMW2254-01) and four wells installed in the Facility lower access tunnel (RHMW01, RHMW02, RHMW03, and RHMW05). The US Navy Well 2254-01 is located approximately 3,000 feet downgradient from the Facility and provides approximately 24 percent of the potable water to the Pearl Harbor Water System (PHWS). The groundwater samples were analyzed for petroleum constituents and compared against State of Hawaii Department of Health (HDOH) Drinking Water Environmental Action Levels (EALs) (HDOH, 2008).

This groundwater monitoring report presents the analytical results and compares them to HDOH Drinking Water EALs for samples collected on April 13, 2010. Contaminant trends that have exceeded HDOH Drinking Water EALs are also provided in this report.

April 2010 Sampling Event Results

Laboratory analytical results from the April 2010 sampling event indicate Total Petroleum Hydrocarbons (TPH) as Diesel Range Organics (TPH-DRO), Polynuclear Aromatic Hydrocarbons (PAHs), and Volatile Organic Hydrocarbons (VOCs) are present in the groundwater beneath the Facility at concentrations that exceed HDOH Drinking Water EALs.

Specifically, TPH-DRO was detected in RHMW01 at 377F $\mu\text{g/L}$ [F indicates that the compound was identified, but the concentration was above the laboratory method detection limit (MDL) and below the reporting limit (RL), therefore is considered an estimate]. At RHMW02, TPH-DRO was detected at 2,215 $\mu\text{g/L}$ (i.e., the average of normal and duplicate samples). The HDOH Drinking Water EAL for TPH-DRO is 210 $\mu\text{g/L}$. Also during the April 2010 sampling event, 1-methylnaphthalene was detected at RHMW02 above the HDOH Drinking Water EAL at an average concentration of 6.26 $\mu\text{g/L}$ (HDOH Drinking Water EAL is 4.7 $\mu\text{g/L}$). Naphthalene was also detected at RHMW02 above the HDOH Drinking Water EAL at an average concentration of 21 $\mu\text{g/L}$ (HDOH Drinking Water EAL is 17 $\mu\text{g/L}$).

Conversely, during the April 2010 sampling event at RHMW2254-01 and RHMW03, no compounds were detected above the laboratory MDLs. In addition, at RHMW05, only trace concentrations of 1-methylnaphthalene and Naphthalene were detected at concentrations significantly below the respective HDOH Drinking Water EALs.

TPH-DRO Contaminant Trends

Regarding TPH-DRO contaminant trends, since January 2008, TPH-DRO at RHMW01 has fluctuated between the historical range established from September 2005 through September

2007. At RHMW02, TPH-DRO concentrations were relatively stable prior to 2008, after which significant variations in the measured concentrations occurred. However, in April 2010 at RHMW02, TPH-DRO showed a decrease in concentration approaching the lower end of its historical range. Since February 2009, TPH-DRO at RHMW03 has not been detected above the MDL. At RHMW05, TPH-DRO had been increasing since it was first sampled in May 2009. However, in April 2010, TPH-DRO at RHMW05 was not detected above the laboratory MDL.

Other Contaminant Trends

Regarding other contaminant trends, the concentrations of three PAHs detected at RHMW02 are discussed. Since October 2008, the concentration of 2-methylnaphthalene has remained below the HDOH Drinking Water EAL. In addition, Naphthalene and 1-methylnaphthalene concentrations decreased to below the HDOH Drinking Water EALs in May 2009 and October 2009, respectively. However, concentrations for Naphthalene and 1-methylnaphthalene have since increased and remained just above their respective HDOH Drinking Water EALs through the April 2010 sampling event.

Summary

At RHMW01 and RHMW02, TPH-DRO concentrations have fluctuated, but remain within their historical ranges. At RHMW03 and RHMW2254-01 during April 2010, no compounds were detected above laboratory MDLs. At RHMW05, as of the April 2010 sampling, the TPH-DRO concentration drastically decreased to below the laboratory MDL. Finally, no light-non aqueous phased liquid (LNAPL), otherwise known as “free product”, has been observed in any of the Facility groundwater monitoring wells since January 2008.

Based on the results of the April 2010 sampling event, continued quarterly groundwater monitoring is warranted so that overall groundwater quality trends may be observed and proactive action taken if the groundwater quality shows evidence of deterioration. In addition, monthly oil/water interface measurements and soil vapor monitoring should continue within the Facility. Although the US Navy Well 2254-01 is not imminently threatened at this time, monitoring should continue to assess contaminant migration from up-gradient locations.

1.0 Introduction

This report presents the results of the 19th groundwater sampling event, conducted in April 2010 at the Red Hill Fuel Storage Facility, Oahu, Hawaii (hereafter referred to as “the Facility”). The Facility consists of 18 active and two inactive underground storage tanks (USTs) operated by the Fleet and Industrial Supply Center (FISC), Pearl Harbor. The groundwater sampling and analysis event is part of a groundwater monitoring program for the UST site in response to past UST releases, previous environmental investigations, and recommendations from the State of Hawaii Department of Health (HDOH).

1.1 Project Objective

This groundwater sampling project was performed to evaluate the presence of chemicals of potential concern in groundwater underlying the Facility. The project was conducted to ensure the Navy remains in compliance with HDOH UST release response requirements as described in Hawaii Administrative Rules (HAR) 11-281 Subchapter 7, Release Response Action. The groundwater sampling program followed the procedures described in *Red Hill Bulk Fuel Storage Facility Groundwater Protection Plan* [TEC Inc. (TEC), 2008 updated in 2009], also referred to as “the Plan”.

This groundwater sampling event was conducted by TEC under United States (US) Navy Contract Number N47408-04-D-8514, Task Order No. 54.

1.2 Previous Reports

The following groundwater monitoring reports were previously submitted to the HDOH:

1. Groundwater Sampling Report, First Quarter 2005 (submitted April 2005);
2. Groundwater Sampling Report, Second Quarter 2005 (submitted August 2005);
3. Groundwater Sampling Report, Third Quarter 2005 (submitted November 2005);
4. Groundwater Sampling Report, Fourth Quarter 2005 (submitted February 2006);
5. Groundwater Monitoring Results, July 2006 (submitted September 2006);
6. Groundwater Monitoring Results, December 2006 (submitted January 2007);
7. Groundwater Monitoring Results, March 2007 (submitted May 2007);
8. Groundwater Monitoring Results, June 2007 (submitted August 2007);
9. Groundwater Monitoring Results, September 2007 (submitted October 2007);
10. Groundwater Monitoring Results, January 2008 (submitted March 2008);
11. Groundwater Monitoring Results, April 2008 (submitted May 2008);
12. Groundwater Monitoring Results, July 2008 (submitted October 2008);
13. Groundwater Monitoring Results, October and December 2008 (submitted February 2009);

14. Groundwater Monitoring Results, February 2009 (submitted May 2009);
15. Groundwater Monitoring Results, May 2009 (submitted July 2009);
16. Groundwater Monitoring Results, July 2009 (submitted September 2009);
17. Groundwater Monitoring Results, October 2009 (submitted December 2009); and
18. Groundwater Monitoring Results, January, February, and March 2010 (submitted April 2010).

1.3 Background

The following sections provide a description of the site and information on the Facility and USTs.

1.3.1 Site Description

The Facility is located in Red Hill, Oahu, Hawaii. Land adjacent to the north of the Facility is occupied by Halawa Correctional Facility and private businesses. Land to the south and west of the Facility includes the Coast Guard Reservation. Moanalua Valley is located east of the Facility (Dawson, 2006).

The Navy Public Works Department operates a potable water infiltration tunnel approximately 1,550 feet downgradient from the Facility (Dawson, 2006). The US Navy Well 2254-01 is located approximately 3,000 feet down-gradient (west) of the Facility and provides approximately 24% of the potable water to the Pearl Harbor Water System (PHWS), which serves approximately 52,200 military consumers (TEC, 2008).

1.3.2 Facility Information

The Facility consists of 18 active and two inactive USTs operated by Navy FISC Pearl Harbor. Each UST has a capacity of 12.5 million gallons. The bottom of the USTs is located approximately 100 feet above the basal aquifer (Dawson, 2006).

1.3.3 UST Information

The USTs were constructed in the early 1940s. The tanks were fabricated from steel and currently contain Jet Propulsion (JP)-5 fuel, JP-8, and F-76 (diesel marine fuel). Previously, several tanks stored Navy Special Fuel Oil, Navy Distillate, aviation gasoline, and motor gasoline. Each tank measures approximately 245 feet in height and 100 feet in diameter. The upper domes of the tanks lie at depths varying between approximately 100 feet and 200 feet below the existing ground surface (TEC, 2006).

1.4 Previous Environmental Investigations

1998 to 2001: From 1998 to 2001, the Navy conducted an investigation at the Facility to assess potential releases from the fuel storage USTs and piping systems. In February 2001, the Navy installed a one-inch diameter RHMW01 (previously known as MW-V1D) to monitor for contamination of the basal aquifer underlying the Facility. The well was installed and completed at approximately 100 feet below grade within the lower access tunnel. At the time of well completion, depth to water in RHMW01 was measured at 86 feet below grade (Dawson, 2006).

In February 2001, groundwater samples collected from RHMW01 contained total petroleum hydrocarbons (TPH) concentrations ranging from 883 micrograms per liter ($\mu\text{g/L}$) to 1,050 $\mu\text{g/L}$ and total lead ranging from 10.4 $\mu\text{g/L}$ to 15 $\mu\text{g/L}$. The maximum total lead concentration in the samples was equal to the primary drinking water standard of 15 $\mu\text{g/L}$ for lead and exceeded the HDOH Tier 1 groundwater action level of 5.6 $\mu\text{g/L}$ (Dawson, 2006).

2005 – Groundwater Sampling: The Navy began quarterly groundwater sampling at existing monitoring wells in 2005. Dawson Group, Inc. collected groundwater samples from RHMW01 and the Red Hill Navy Pump Station (US Navy Well 2254-01) in February, June, September, and December 2005.

Samples collected in February and June 2005 were not filtered in the field prior to analysis for lead. Analytical results for samples collected from RHMW01 indicated concentrations of total lead were above the HDOH Tier 1 action level of 5.6 $\mu\text{g/L}$. The results were not considered appropriate for risk assessment since the sample had not been filtered. In addition, lead was not a component of fuels from the tanks near RHMW01, but was a component of fuels stored in other tanks during the history of the Facility. Lead may have been part of the Facility construction material (TEC, 2007). Previous sampling efforts showed elevated lead when analyzed as unfiltered samples. Subsequent efforts where the lead samples were filtered has resolved this issue.

Samples were filtered in September and December 2005, and dissolved lead concentrations were below the HDOH Tier 1 action level. Concentrations of all other contaminants of potential concern were below HDOH Tier 1 action levels.

2005 – Site Investigation: As part of a site investigation, TEC installed three groundwater monitoring wells at the Facility between June and September 2005. Well RHMW02 was installed in the lower access tunnel near Tanks 5 and 6. Well RHMW03 was installed in the lower access tunnel near Tanks 13 and 14. Well RHMW04 was installed north of UST tank 20 to provide contaminant chemistry data for water moving through the basal aquifer beneath the Facility. Wells RHMW02 and RHMW03 were completed to depths of approximately 125 feet below the tunnel floor, and well RHMW04 was completed to a depth of approximately 300 feet below ground surface outside the tunnel. Groundwater samples were collected from the three newly installed wells and two existing wells (RHMW01 and RHMW2254-01) in September 2005.

Naphthalene and trichloroethylene were detected in samples collected from RHMW02 at concentrations greater than the HDOH Tier 1 action levels. Lead was detected in the sample collected from RHMW01 at a concentration greater than the HDOH Tier 1 action level; however, the sample was not filtered in the field prior to analysis. Analytical results for filtered samples obtained by Dawson during the same period indicated concentrations of dissolved lead were below the HDOH Tier 1 action level.

2006 – Site Investigation: Dedicated sampling pumps were installed in five wells (RHMW01, RHMW02, RHMW03, RHMW04, and US Navy Well 2254-01). TEC collected groundwater

samples from the wells in July 2006. The groundwater samples were analyzed for petroleum constituents. Naphthalene was detected in samples collected from RHMW02 at concentrations above the HDOH Tier 1 action level.

In September 2005, with concurrence from the HDOH, the Navy decided to use the newer HDOH Environmental Action Levels (EALs) for the Red Hill Site Investigation and Risk Assessment project. The EALs provide action levels for more chemicals, and are more useful for conducting screening risk assessments. Since the HDOH (HDOH May 2005) Policy Letter stated that the two sets of action levels should not be mixed, the Tier 1 screening levels presented in HAR Section 11-281-78 would no longer be used to evaluate environmental impact at the Facility.

An overall summary of Facility groundwater sampling data by year follows:

2006 – Groundwater Sampling: Groundwater samples were collected in December 2006. Analytical results indicated the following:

- No chemicals were detected in groundwater from US Navy Well 2254-01 or RHMW03;
- TPH as diesel range organics (TPH-DRO) was detected in groundwater above the HDOH Drinking Water EALs in RHMW01; and
- TPH as gasoline range organics (TPH-GRO), TPH-DRO, and naphthalene were detected in groundwater above the HDOH Drinking Water EALs in RHMW02.

2007 – Groundwater Sampling: Groundwater samples were collected in March, June, and September 2007. Analytical results indicated the following:

- No chemicals were detected above HDOH Drinking Water EALs at US Navy Well 2254-01;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW01 during all three sampling events;
- TPH-GRO exceeded HDOH Drinking Water EALs at RHMW02 in March;
- TPH-DRO and naphthalene exceeded HDOH Drinking Water EALs at RHMW02 during all three sampling events;
- 1-methylnaphthalene and 2-methylnaphthalene exceeded the HDOH Groundwater Gross Contamination EAL at RHMW02 during all three sampling events; and
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW03 in June.

2008 – Groundwater Sampling: Groundwater samples were collected in January, April, July, and October 2008. Analytical results indicated the following:

- No chemicals were detected above HDOH Drinking Water EALs at US Navy Well 2254-01;
- Trace detections of 1-methylnaphthalene and naphthalene prompted a resample event in December at US Navy Well 2254-01, no chemicals were detected above the laboratory method detection limit (MDL);
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW01 during all four sampling events;
- TPH-GRO did not exceed HDOH Drinking Water EALs at RHMW02;

- TPH-DRO, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene exceeded HDOH Drinking Water EALs at RHMW02. Additionally, the SSRBL of 4,500 µg/L for TPH-DRO was exceeded in the October sampling event; and
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW03 during all four sampling events.

2009 – Groundwater Sampling: Groundwater samples were collected in February, May, July, and October 2009. Analytical results indicated the following:

- No chemicals have been detected above HDOH Drinking Water EALs at US Navy Well 2254-01;
- Trace TPH-GRO at US Navy Well 2254-01 was detected above the laboratory MDL and significantly below the laboratory reporting limit and HDOH Drinking Water EAL, in February and May 2009;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW01 during all four sampling events;
- TPH-GRO has not exceeded HDOH Drinking Water EALs at RHMW02;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW02 during all four sampling events;
- Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene exceeded HDOH Drinking Water EALs at RHMW02 in February 2009, however only 1-methylnaphthalene exceeded the HDOH Drinking Water EALs in May and July 2009 and only naphthalene exceeded the HDOH Drinking Water EAL in October 2009;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW03 in February, but not in May, July, or October; and
- TPH-DRO exceeded HDOH Drinking Water EAL at RHMW05 during the July and October 2009 sampling events.

2010 – Groundwater Sampling: Groundwater samples were collected in January 2010 (and TPH-DRO was resampled for at RHMW02 in February and March, 2010). Analytical results indicated the following:

- No chemicals have been detected above HDOH Drinking Water EALs at US Navy Well 2254-01;
- Trace naphthalene at US Navy Well 2254-01 was detected above the laboratory MDL and significantly below the laboratory reporting limit and HDOH Drinking Water EAL, in January;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW01;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW02 in January, February, and March, however, significant increases in January and February were attributed to tentatively identified compounds (TICs) apparently not associated with petroleum from the Facility;
- Naphthalene and 1-methylnaphthalene exceeded HDOH Drinking Water EALs in RHMW02 in January;
- TPH-DRO exceeded HDOH Drinking Water EALs at RHMW05 in January, however, the significant increase was attributed to TICs apparently not associated with petroleum from the Facility; and

- TPH-DRO at RHMW03 has not been detected above the laboratory MDL.

1.5 Regulatory Updates

During the summer and fall of 2008, HDOH updated their EALs, which resulted in significant changes to the action levels associated with methyl-naphthalenes. The drinking water toxicity EAL for these compounds was 240 µg/L. This concentration presumed that methyl-naphthalenes were non-carcinogenic. Evidence that they are human carcinogens has now been accepted by the US Environmental Protection Agency (USEPA). As a result, HDOH adopted more rigorous EALs of 4.7 µg/L for 1-methyl-naphthalene and 24 µg/L for 2-methyl-naphthalene, corresponding to a residential tap water scenario, and a 1 in a million cancer risk (HDOH, 2008).

Also, the drinking water EAL for naphthalene was increased from 6.2 µg/L to 17 µg/L (HDOH, 2008). Finally, the HDOH Drinking Water EAL for TPH-DRO was increased from 100 µg/L to 210 µg/L, although the HDOH Groundwater Gross Contamination EAL for TPH-DRO remains 100 µg/L.

1.6 RHMW05 Installation

In April 2009, a new groundwater monitoring well, RHMW05, was installed by TEC under US Navy Contract Number N47408-04-D-8514, Task Order No. 54. RHMW05 is located within the lower access tunnel between RHMW01 and RHMW2254-01 (located at the US Navy Well 2254-01). It was installed to identify any contamination migrating past RHMW01 prior to it reaching the US Navy Well 2254-01.

2.0 Sample Collection and Analyses

Field activities relating to groundwater sample collection were conducted on April 13, 2010. Groundwater samples were collected from four monitoring wells located inside the Facility lower access tunnel and one monitoring well located at the US Navy Pump Station. Sampling and analysis were conducted according to *Red Hill Bulk Fuel Storage Facility Groundwater Protection Plan* (TEC, 2009). A total of eight samples were collected as follows:

- one environmental sample from RHMW2254-01 (i.e., located at the US Navy Well 2254-01), RHMW01, RHMW02, RHMW03, and RHMW05;
- one duplicate sample from RHMW02 (sampled as RHMWA01 and reported as RHMW02D); and
- one matrix spike and matrix spike duplicate from RHMW2254-01.

2.1 Monitoring Well Purging

All groundwater monitoring wells were purged and sampled using a dedicated pump system. Well purging was considered complete when no less than three successive water quality parameter measurements had stabilized within approximately 10 percent. Field parameters were measured at regular intervals during well purging and included pH, temperature, specific conductivity, dissolved oxygen, and turbidity. Purge water was collected and disposed in the Facility oil/water separator system.

2.2 Groundwater Sample Collection

Each monitoring well was sampled immediately following purging. All wells were sampled directly from their dedicated bladder pump system. Samples were placed into sampling containers with appropriate preservatives [i.e., hydrochloric acid (HCl) for volatile organic analysis, nitric acid (HNO₃) for dissolved lead]. Dissolved lead samples were filtered in the field and placed in preserved bottles. Sample containers were labeled with the date, sample identification number, type of analysis, and sampler's name. The containers were placed on ice in sample coolers and transported under chain-of-custody procedures to the certified laboratory for analysis.

2.3 Groundwater Sample Analyses

Groundwater samples were analyzed by SGS Environmental Service, Inc. in Anchorage, Alaska for TPH-DRO and TPH-GRO by EPA Method 8015B, VOCs by EPA Method 8260B, PAHs by EPA Method 8270C SIM, and dissolved lead by EPA Method 6020.

3.0 Groundwater Sample Analytical Results

This section provides a summary of analytical results for groundwater samples collected from four monitoring wells located in the lower access tunnel of the Facility and one monitoring well located at the US Navy Pump Station. Duplicate sample results from monitoring well RHMW02 are reported in this document as RHMW02D. A summary of groundwater analytical results for TPH-DRO, TPH-GRO, VOCs, PAHs, and dissolved lead is included in Table 1. Complete analytical laboratory reports are provided in Appendix A.

3.1 April 2010 Sample Analytical Results

Groundwater samples were analyzed for TPH-DRO, TPH-GRO, VOCs, PAHs, and dissolved lead. Data qualifier "F" indicates the result is between the laboratory MDL and reporting limit (RL), therefore, should be considered an estimated value. The results for each groundwater monitoring well are discussed below.

RHMW01

TPH-DRO at 377F µg/L exceeded the HDOH Drinking Water EALs of 210 µg/L. Estimated trace concentrations of acenaphthene and flourene were detected at 0.045F µg/L and 0.0455F µg/L, respectfully (Table 1). These concentrations are significantly below the HDOH Drinking Water EALs for each constituent. No other constituents were detected above the laboratory MDL.

Table 1. Analytical Results for Quarterly Groundwater Monitoring Release Response Report (April 13, 2010)
Red Hill Fuel Storage Facility, Pearl Harbor, Hawaii

Method	Chemical	HDOH Drinking Water EALs ¹ for Human Toxicity UG/L	HDOH Groundwater Gross Contamination EALs ² UG/L	RHMW01 UG/L			RHMW02 UG/L			RHMW02D UG/L			RHMW03 UG/L			RHMW05 UG/L			RHMW2254-01 UG/L												
				April 13, 2010			April 13, 2010			April 13, 2010			April 13, 2010			April 13, 2010			April 13, 2010												
				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result
8015B (Petroleum)	TPH as DIESEL RANGE ORGANICS	210	100	377	F	163	435	2350	F	160	426	2080	F	161	430	ND	U	160	426	ND	U	150	400	ND	U	160	426	ND	U	160	426
	TPH as GASOLINE RANGE ORGANICS	100	100	ND	U	30	100	39.3	F	30	100	39	F	30	100	ND	U	30	100	ND	U	30	100	ND	U	30	100	ND	U	30	100
8270C SIM (PAHs)	1-METHYLNAPHTHALENE	4.7	10	ND	U	0.0161	0.0538	6.61		0.161	0.538	5.9		0.165	0.549	ND	U	0.0161	0.0538	0.0335	F	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	2-METHYLNAPHTHALENE	24	10	ND	U	0.0161	0.0538	1.69		0.161	0.538	1.9		0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	ACENAPHTHENE	370	20	0.045	F	0.0161	0.0538	0.426		0.161	0.0538	0.429		0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	ACENAPHTHYLENE	240	2000	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	ANTHRACENE	1800	22	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	BENZO(a)ANTHRACENE	0.092	4.7	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	BENZO(a)PYRENE	0.2	0.81	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	BENZO(b)FLUORANTHENE	0.092	0.75	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	BENZO(g,h,i)PERYLENE	1500	0.13	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	BENZO(k)FLUORANTHENE	0.92	0.4	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	CHRYSENE	9.2	1	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	DIBENZ(a,h)ANTHRACENE	0.0092	0.52	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	FLUORANTHENE	1500	130	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	FLUORENE	240	950	0.0455	F	0.0161	0.0538	0.224		0.161	0.0538	0.23		0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	INDENO(1,2,3-c,d)PYRENE	0.092	0.095	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
	NAPHTHALENE	17	21	ND	U	0.0333	0.108	14.3		0.333	1.08	12.7		0.341	1.1	ND	U	0.0333	0.108	0.0752	F	0.0337	0.109	ND	U	0.0341	0.11	ND	U	0.0341	0.11
	PHENANTHRENE	240	410	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549
PYRENE	180	68	ND	U	0.0161	0.0538	ND	U	0.161	0.0538	ND	U	0.165	0.0549	ND	U	0.0161	0.0538	ND	U	0.0163	0.0543	ND	U	0.0165	0.0549	ND	U	0.0165	0.0549	
8260B (VOCs)	1,1,1,2-TETRACHLOROETHANE	0.52	50000	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	1,1,1-TRICHLOROETHANE	200	970	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,1,2,2-TETRACHLOROETHANE	0.067	500	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	1,1,2-TRICHLOROETHANE	5	50000	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,1-DICHLOROETHANE	2.4	50000	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2,3-TRICHLOROPROPANE (TCP)	0.6	50000	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2,4-TRICHLOROBENZENE	70	3000	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.04	10	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2
	1,2-DIBROMOETHANE (EDB)	0.0065	50000	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2-DICHLOROBENZENE	600	10	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2-DICHLOROETHANE	0.15	7000	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	1,2-DICHLOROPROPANE	5	10	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,3-DICHLOROBENZENE	180	50000	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,4-DICHLOROBENZENE	75	5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	ACETONE	22000	20000	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10
	BENZENE	5	170	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4
	BROMODICHLOROMETHANE	0.22	50000	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	BROMOFORM	100	510	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	BROMOMETHANE	8.7	50000	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3
	CARBON TETRACHLORIDE	5	520	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	CHLOROBENZENE	100	50	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	CHLOROETHANE	8600	16	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31													

RHMW02

In April 2010, TPH-DRO was detected in RHMW02 in the normal and duplicate samples at 2,350 µg/L and 2,080 µg/L, respectively. These results exceeded the HDOH Drinking Water EAL of 210 µg/L, but not the site-specific risk based level (SSRBL) of 4,500 µg/L. The average concentration between the normal and duplicate samples for TPH-DRO was 2,215 µg/L, slightly less than half of the SSRBL. The concentration of TPH-GRO detected in the normal and duplicate sample from RHMW02 averaged 39.2F µg/L, less than the HDOH Drinking Water EAL of 100 µg/L.

Naphthalene was analyzed by USEPA Method 8270C SIM and USEPA Method 8260B. USEPA Method 8260B produced the highest naphthalene concentrations, which averaged 21 µg/L from the normal and duplicate sample (HDOH Drinking Water EAL is 17 µg/L). In addition, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, and flourene were detected in the normal and duplicate samples at averaged concentrations of 6.26 µg/L, 1.795 µg/L, 0.428 µg/L, and 0.227 µg/L, respectively (Table 1). All of these concentrations are below the HDOH Drinking Water EALs for each constituent, except for 1-methylnaphthalene (HDOH Drinking Water EAL is 4.7 µg/L). No other constituents were detected above the laboratory MDL.

RHMW03

No parameters were detected above the laboratory MDLs in RHMW03 (Table 1).

RHMW05

1-methylnaphthalene and naphthalene were detected above the laboratory MDL, but below the RL, at estimated concentrations of 0.0335F µg/L and 0.0752F µg/L, respectively. These concentrations are below the HDOH Drinking Water EAL for each compound. No other constituents were detected above the laboratory MDL (Table 1).

US Navy Well 2254-01

No parameters were detected above the laboratory MDLs in RHMW2254-01 (Table 1).

3.2 Groundwater Contaminant Trend

Groundwater samples have been collected and analyzed by TEC since September 2005. Figure 1 shows TPH trends in groundwater at the Facility. Figure 2 shows PAH trends in groundwater at the Facility. In these figures, open icons (without data) represent locations where the compounds being analyzed were not detected.

The following is a discussion of compounds that exceeded HDOH Drinking Water EALs during two or more recent consecutive sampling events of increasing or decreasing concentrations, thus establishing a trend:

RHMW01

At RHMW01, concentrations of TPH-DRO have been greater than the HDOH Drinking Water EAL since September 2005, but less than 25 percent of the SSRBL of 4,500 µg/L. TPH-DRO had exhibited a decreasing trend since October 2008 with the lowest concentration (i.e., 248

µg/L) recorded in July 2009. Since July 2009, this trend began increasing with 299F µg/L, 312F µg/L, and 377 µg/L detected in October 2009, January 2010, and April 2010, respectively.

RHMW02

At RHMW02, from September 2005 through February 2009, TPH-DRO exceeded the HDOH Drinking Water EAL and was greater than 50 percent of the SSRBL (estimated solubility limit of 4,500 µg/L). Specifically, the concentration of TPH-DRO was relatively stable at RHMW02 until July 2008, ranging from 2,250 to 2,995 µg/L. However, during the July and October 2008 sampling events, these average concentrations increased. The July 2008 average concentration was 4,055 µg/L and the October 2008 average concentration was 5,420 µg/L. Both of these values were significantly above the HDOH Drinking Water EAL of 210 µg/L, with the October 2008 average also exceeding the SSRBL of 4,500 µg/L.

However, TPH-DRO at RHMW02 had shown a decreasing trend from October 2008 through July 2009. In May and July 2009, TPH-DRO remained above the HDOH Drinking Water EAL, but was below 50 percent of the SSRBL of 4,500 µg/L. In October 2009, TPH-DRO began an increasing trend greater than 50 percent of the SSRBL which continued through February 2010 when it exceeded the SSRBL due to tentatively identified compounds (TICs) apparently not associated with petroleum from the Facility (TEC, 2010). In March and April 2010, TPH-DRO has exhibited a decreasing trend and the TICs detected in the two previous sampling events were not observed. During April 2010, TPH-DRO concentrations at RHMW02 decreased to an averaged concentration of 2,215 µg/L, just below 50 percent of the SSRBL.

For other parameters, the average concentration for 1-methylnaphthalene (i.e., 6.26 µg/L) exhibited a decrease from the January 2010 average concentration (i.e., 8.65 µg/L) that was above the HDOH Drinking Water EAL of 4.7 µg/L. Naphthalene had shown an increasing trend since its lowest concentration in May 2009. However since October 2009, average naphthalene concentrations in RHMW02 have remained relatively stable between 20 µg/L and 22 µg/L, exceeding the HDOH Drinking Water EAL of 17 µg/L.

RHMW03

At RHMW03, historically, concentrations of TPH-DRO have fluctuated around the HDOH Drinking Water EAL, but have been significantly lower than corresponding values observed at RHMW01 and RHMW02. However, the measured concentrations decreased since October 2008 dropping below the laboratory MDL in May 2009. There has been no detectable TPH-DRO result since May 2009.

RHMW05

At RHMW05 there has been an increasing trend for TPH-DRO since it was first sampled in May 2009. Since July 2009, TPH-DRO concentrations at RHMW05 were greater than the HDOH Drinking Water EAL (i.e., 210 µg/L). However, in April 2010 TPH-DRO concentrations exhibited a significant decrease and was not detected above the laboratory MDL.

US Navy Well 2254-01

At US Navy Well 2254-01, no compounds were detected above the laboratory MDLs during April 2010. Additionally, no compounds have ever been detected at this sample location at concentrations greater than any HDOH Drinking Water EALs.

3.3 Results of Oil/Water Interface Measurements

The presence and thickness of light-non aqueous phased liquids (LNAPL), otherwise known as “free product”, released from the USTs is monitored at the Facility (see Table 2). Static water levels and fuel thickness is measured to a precision of ± 0.01 feet.

In January 2008, fuel was measured in monitoring wells RHMW01 and RHMW02 at a thickness of less than 0.01 ft, but has not been observed in other monitoring wells. Measurements to determine the presence and thickness of fuel were conducted at RHMW01, RHMW02, RHMW03, and RHMW05 following the April 2010 sampling round. Since January 2008, no free product has been observed in any of these Facility wells (Table 2).

Table 2. Oil/Water Interface Measurements

Date	RHMW01		RHMW02		RHMW03		RHMW05	
	SWL (ft)	LNAPL (ft)	SWL (ft)	LNAPL (ft)	SWL (ft)	LNAPL (ft)	SWL ⁶ (ft)	LNAPL (ft)
January 2008	17.74	< 0.01	18.78	< 0.01	NT ¹	NT ¹	----	----
July 2008	19.04	0.00	18.91	0.00	18.86	0.00	----	----
October 2008	18.61	0.00	18.56	0.00	18.82	0.00	----	----
November 2008	18.50	0.00	18.45	0.00	18.51	0.00	----	----
January 2009	19.28	0.00	19.22	0.00	19.27	0.00	----	----
February 2009	NT ²	NT ²	18.66	0.00	18.75	0.00	----	----
March 2009	18.59	0.00	18.57	0.00	18.67	0.00	----	----
May 2009 ³	18.69	0.00	18.64	0.00	18.72	0.00	NT ⁵	NT ⁵
May 2009	18.91	0.00	18.86	0.00	18.90	0.00	NT ⁵	NT ⁵
July 2009 ⁴	18.66	0.00	18.59	0.00	18.64	0.00	18.63	0.00
August 2009	18.37	0.00	18.30	0.00	18.47	0.00	18.21	0.00
September 2009	18.20	0.00	18.17	0.00	18.24	0.00	18.11	0.00
October 2009	18.17	0.00	18.14	0.00	18.24	0.00	18.10	0.00
November 2009	18.50	0.00	18.45	0.00	18.50	0.00	18.47	0.00
December 2009	18.29	0.00	18.26	0.00	18.31	0.00	18.19	0.00
January 2010	18.05	0.00	18.01	0.00	18.09	0.00	17.97	0.00
February 2010	18.17	0.00	18.12	0.00	18.17	0.00	18.12	0.00
March 2010	17.88	0.00	17.86	0.00	17.93	0.00	17.76	0.00
April 2010	17.66	0.00	17.64	0.00	17.71	0.00	17.55	0.00

SWL - Static water level, elevation above mean sea level

LNAPL - Light Non-Aqueous Phased Liquid, fuel product on groundwater attributed to the Facility

ft - Feet

NT - Not Taken

¹ - The January 2008 measurement at RHMW03 was not taken due to equipment malfunction

² - During the February 2009 measurements, RHMW01 was inaccessible due to extensive work being conducted at Tank 02

³ - The measurements scheduled for April 2009 were postponed until May 6, 2009 due to RHMW05 drilling activities

⁴ - The June 2009 measurements were skipped due to the installation of dedicated oil/water interface probes

⁵ - Oil/water interface measurements were not taken at RHMW05 until the installation of the oil/water interface probe was completed

⁶ - Elevation at RHMW05 is estimated from the difference between RHMW01 and RHMW05 during a survey conducted in January 2010

---- - Time period prior to the installation of RHMW05

Oil/water interface measurements were not taken in April 2008

3.4 Groundwater Status

Facility-specific contaminants of concern are defined as petroleum-related chemicals that have been observed in the groundwater samples above the HDOH Drinking Water EALs. In accordance with the *Red Hill Bulk Fuel Storage Facility Final Groundwater Protection Plan* (TEC, 2008), Table 3 defines these Facility-specific compounds and their associated SSRBLs and updated EALs (HDOH 2008).

Table 3. Action Levels for Contaminants of Concern

Chemical	EAL (µg/L)	SSRBL (µg/L)
Petroleum Mixtures		
TPH-DRO	210	4,500
TPH-GRO	100	4,500
Semi-Volatile Compounds		
1-Methylnaphthalene	4.7	NA
2-Methylnaphthalene	24	NA
Naphthalene	17	NA

NA – Not applicable or not determined

SSRBLs are applicable at RHMW01, RHMW02, RHMW03, and RHMW05

EALs are applicable at US Navy Well 2254-01

In addition, the Plan defines four Results Categories of groundwater status for the Facility, based on concentrations of constituents of concern in RHMW01, RHMW02, RHMW03, RHMW05 and the US Navy Well 2254-01, and requires specific responses when these categories are observed during quarterly groundwater sampling. Table 4 describes each of the four Results Categories and identifies response actions to be taken in accordance with the Plan.

Table 4. Results Categories and Response Actions to Changes in Groundwater Status

Results Category	RHMW02 RHMW03 or RHMW05*	RHMW01	US Navy Pumping Well 2254-01
Results Category 1: Result above detection limit but below drinking water EAL and trend for all compounds stable or decreasing	A	A	A,D,M,E
Results Category 2: Trend for any compound increasing or drinking water EAL exceeded	A, B	A, B	A,B,C,D,E,F,G,K, L,O
Results Category 3: Result Between 1/10X SSRBL and SSRBL for benzene, or between 1/2X SSRBL and SSRBL for TPH	A,B,G,H,I,J	A,B,E,G,H,I,J	A,B,C,D,E,F,G,I,J, K,L,O
Results Category 4: Result Exceeding any SSRBL or petroleum product observed	A,C,D,E,F,I,J, K,M,N	A,C,D,E,F,I, J,K,M,N,O	A,C,D,E,F,G,I,J,K, L,O

*RHMW05 was installed in April 2009 and has been subsequently been added to this Table.

Specific Responses:

- A. Send quarterly reports to HDOH.
- B. Begin program to determine the source of leak.
- C. Notify HDOH verbally within 1 day and follow with written notification in 30 days.
- D. Notify FISC Chain of Command within 1 day.
- E. Send Type 1 Report (see box below) to HDOH.
- F. Send Type 2 Report (see box below) to HDOH.
- G. Increase monitoring frequency to once per month (if concentrations increasing).
- H. Notify HDOH verbally within 7 days and follow with written notification in 30 days.
- I. Remove sampling pumps, measure product in pertinent wells with interface probe, re-install pumps if product is not detected.
- J. Immediately determine leaking tank.
- K. Collect samples from nearby Halawa Deep Monitoring Well (2253-03) and OWDF MW01.
- L. Provide alternative water source at 2254-01.
- M. Prepare for alternative water source at US Navy Well 2254-01.
- N. Re-measure for product every month with reports to HDOH.
- O. Install additional monitoring well downgradient.

Report Types

HDOH Type 1 Report

- Re-evaluate Tier 3 Risk Assessment/groundwater model results
- Proposal to HDOH on a course of action

HDOH Type 2 Report

- Proposal for groundwater treatment

Free Product Measurements

In response to the previous Category 3 status at RHMW02, free product measurements have been collected at the Facility monitoring wells. As Table 2 indicates, free product has been observed only during the January 2008 monitoring event (i.e., at both RHMW01 and RHMW02 at less than 0.01 foot each).

US Navy Well 2254-01

Based upon the April 2010 sampling event, the US Navy Well 2254-01 is not eligible for any category status change since no compounds were detected above the laboratory MDLs.

RHMW03

Based upon the April 2010 sampling event, RHMW03 is not eligible for any category status change since no compounds were detected above the laboratory MDLs.

Category 1 Status Locations

There are no Category 1 status locations based upon the April 2010 event.

Category 2 Status Locations

RHMW01

The April 2010 sampling event indicates that RHMW01 should remain in Category 2 status. This is because the TPH-DRO concentration of 377F $\mu\text{g/L}$ is greater than the HDOH Drinking Water EAL (210 $\mu\text{g/L}$), but less than half the SSRBL of 4,500 $\mu\text{g/L}$ (estimated solubility limit of JP-5).

RHMW02

Based upon the April 2010 sampling event, RHMW02 has been downgraded to Category 2 status. Although TPH-DRO concentrations remain greater than the HDOH Drinking Water EAL (210 $\mu\text{g/L}$), the April 2010 averaged concentration (2,215 $\mu\text{g/L}$) is less than half the SSRBL of 4,500 $\mu\text{g/L}$.

RHMW05

Based upon the April 2010 sampling event, RHMW05 should remain in a Category 2 status. This is because estimated trace concentrations of 1-methylnaphthalene have demonstrated a slight increasing trend (i.e., two or more consecutive sampling events of increasing concentrations) starting with the January 2010 sampling event.

Category 2 for RHMW01, RHMW02, and RHMW05 requires:

1. Quarterly reports to be sent to HDOH; and
2. Initiation of a leak determination program to identify if tanks are leaking.

Category 3 Status Locations

There are no Category 3 status locations.

Category 4 Status Locations

There are no Category 4 status locations.

4.0 Summary and Conclusions

Summary

There is no indication of an immediate threat of disruption to drinking water resources of the US Navy Well 2254-01 as a result of the April 2010 data. Based on the April 2010 sampling event, the US Navy Well 2254-01 does not fall into any Results Category of the Plan.

RHMW01 is exhibiting an increasing trend for TPH-DRO relative to the concentrations observed in the most recent sampling events. However, the April 2010 results from RHMW01 are still at concentration levels within the historical range. Also during April 2010, TPH-DRO concentrations for RHMW02 and RHMW05 decreased relative to the previous respective sampling events. Specifically, in April 2010, TPH-DRO at RHMW05 was not detected above the laboratory MDL (Table 1).

Conclusions/Recommendations

- To date, fuel on the groundwater has been observed only once (i.e., in January 2008 in RHMW01 and RHMW02 at less than 0.01 ft.). Continued monitoring of Facility wells for the presence of fuel on groundwater is recommended.
- The concentration of TPH-DRO measured in the newest monitoring well, RHMW05, has drastically declined since exhibiting an increasing trend during all the previous sampling events at this location.
- RHMW01 has exhibited a slightly increasing TPH-DRO trend while TPH-DRO at RHMW02 has slightly decreased since March 2010. However, April 2010 TPH-DRO concentrations are within the historical ranges for both RHMW01 and RHMW02. It is recommended that quarterly monitoring of the Facility wells continue so that overall groundwater quality trends may be evaluated and proactive action taken if the groundwater quality shows evidence of deterioration.
- The US Navy Well 2254-01 is not imminently threatened at this time; however, sampling should continue to monitor and assess contaminant migration from up-gradient locations.
- Consideration should be given to having future samples analyzed using both Massachusetts Department of Environmental Protection (MADEP) analytical methods in addition to TPH-GRO and TPH-DRO analytical methods.
- The following activities are in process to monitor and/or clarify the groundwater contamination situation at the Facility:

1. Continue monthly free product measurements at RHMW01, RHMW02, RHMW03, and RHMW05;
2. Continue monthly soil vapor monitoring; and
3. Continue quarterly groundwater monitoring of Facility wells for TPH-DRO, TPH-GRO, VOCs, PAHs, and lead until such time that new data indicates that a different monitoring program is warranted.

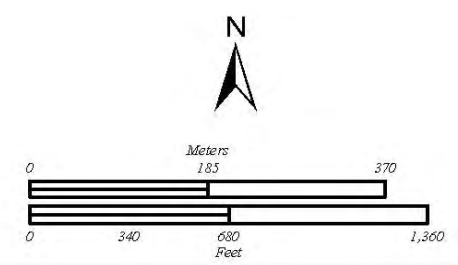
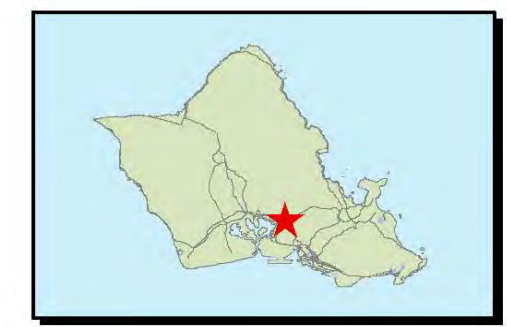
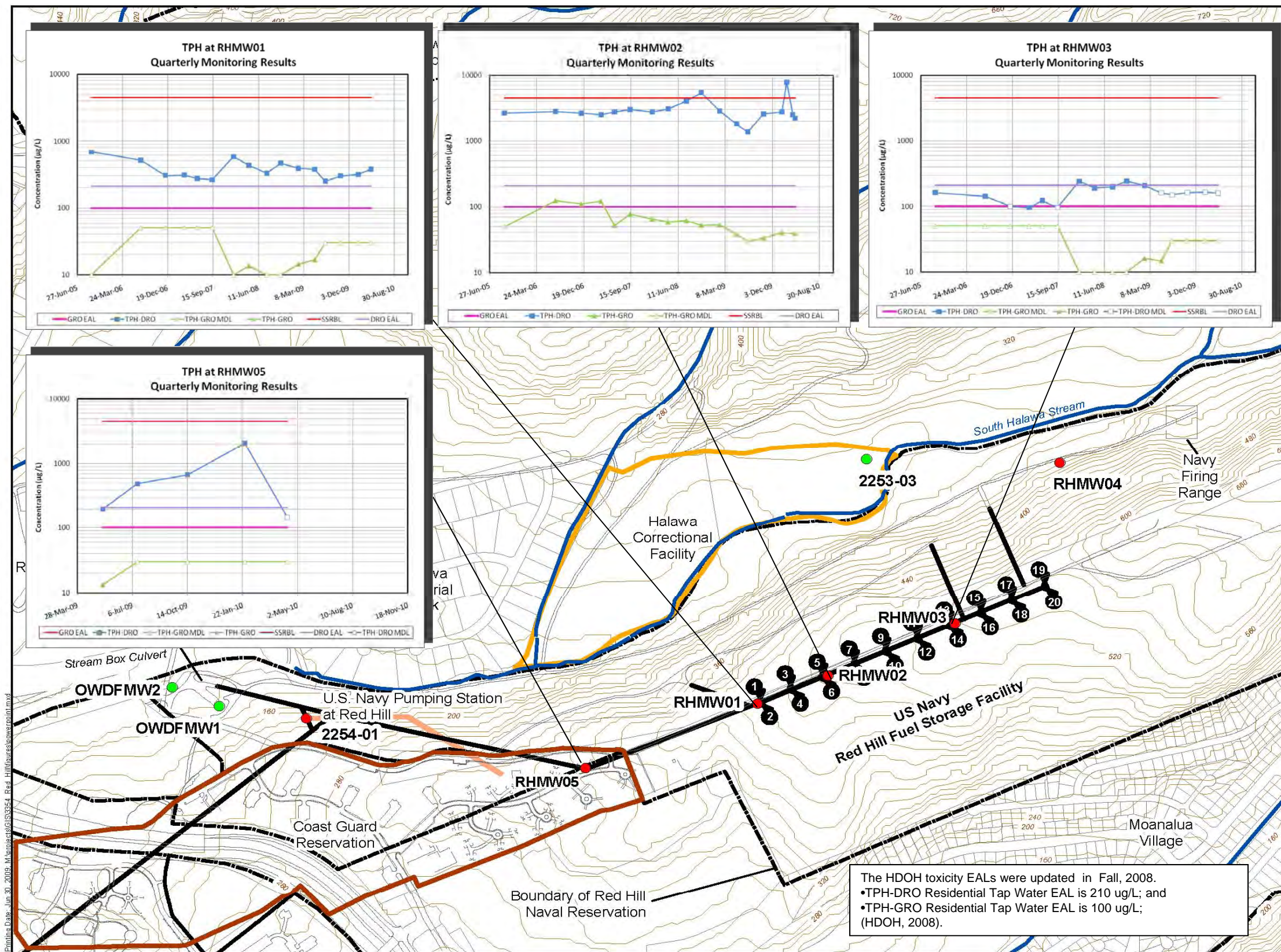


Figure 1
TPH Trends in Groundwater
Round 19 (April 13, 2010)
Red Hill Fuel Storage Facility
Oahu, Hawaii

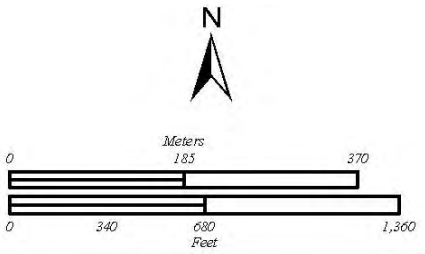
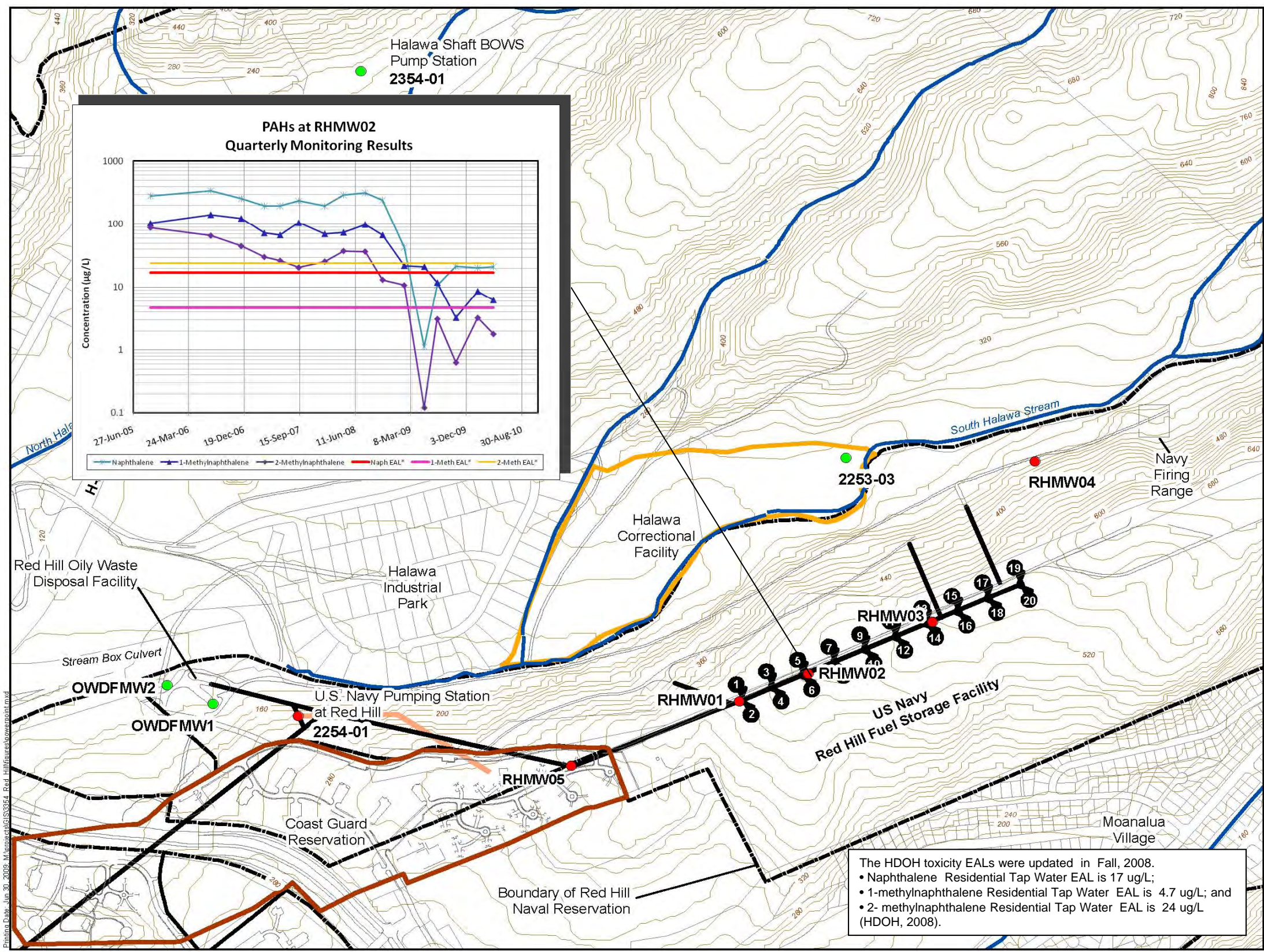


Figure 2
PAH Trends in Groundwater
Round 19 (April 13, 2010)
Red Hill Fuel Storage Facility
Oahu, Hawaii

5.0 References

AMEC. *Red Hill Bulk Fuel Storage Facility Investigation Report*, Prepared for NAVFAC Pacific, August 2002.

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Appendix A

Laboratory Analytical Reports



SGS North America Inc.
Alaska Division
Level II Laboratory Data Report

Project: 3354-003 Red Hill BFSF
Client: The Environmental Company, Inc. (TEC)
SGS Work Order: 1101584

Released by:

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

Note:
Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.



CASE NARRATIVE

Print Date: 4/30/2010

Client Name: The Environmental Company, Inc. (TEC)
Project Name: 3354-003 Red Hill BFSF
Workorder No.: 1101584

Sample Comments

Refer to the sample receipt form for information on sample condition.

<u>Lab Sample ID</u>	<u>Sample Type</u>	<u>Client Sample ID</u>
1101584002	* BMS	RHMW2254-WG19 MS
	8270D SIM - MS recovery for multiple analytes is outside of QC criteria (biased high). Refer to LCS for accuracy.	
1101584004	PS	RHMW03-WG19
	8270D SIM - LCS recovery for multiple analytes is outside of QC criteria (biased high) due to concentration of the spike.	
1101584005	PS	RHMW02-WG19
	8270D SIM - LCS recovery for multiple analytes is outside of QC criteria (biased high) due to concentration of the spike. 8015C - The pattern is consistent with a weathered middle distillate.	
1101584006	PS	RHMWA01-WG19
	8270D SIM - LCS recovery for multiple analytes is outside of QC criteria (biased high) due to concentration of the spike. 8015C - The pattern is consistent with a weathered middle distillate.	
1101584007	PS	RHMW01-WG19
	8270D SIM - LCS recovery for multiple analytes is outside of QC criteria (biased high) due to concentration of the spike.	
1101584008	PS	RHMW05-WG19
	8270D SIM - LCS recovery for multiple analytes is outside of QC criteria (biased high) due to concentration of the spike.	
956904	* LCS	LCS for HBN 227260 [XXX/22499]
	8270D SIM - LCS recovery for multiple analytes is outside of QC criteria (biased high) due to concentration of the spike.	
956905	* LCSD	LCSD for HBN 227260 [XXX/22499]
	8270D SIM - LCSD recovery for multiple analytes is outside of QC criteria (biased high). These analytes were not detected above the LOQ in the associated samples.	
956911	* MS	RHMW2254-WG19 MS(110158400
	8270D SIM - MS recovery for is outside of QC criteria (biased high). Refer to LCS for accuracy.	
957642	* CCV	CCV for HBN 227420 [VMS/11176]
	8260B - ICV recovery for chloromethane and bromomethane does not meet QC criteria (biased high). These analytes were not detected above LOQ in the associated samples.	

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.



Laboratory Analytical Report

Client: **The Environmental Company, Inc.**
1003 Bishop Street,
Pauahi Tower Suite 1550
Honolulu, HI 96813

Attn: **Rick Adkisson**
T: (808)528-1445 F:(808)528-0768

Project: **3354-003 Red Hill BFSF**

Workorder No.: **1101584**

Certification:

This data package is in compliance with the terms and conditions of the contract, both technically and for completeness, unless otherwise noted on the sample data sheet(s) and/or case narrative. This certification applies only to the tested parameters and the specific sample(s) received at the laboratory. If you have any questions regarding this report, or if we can be of further assistance, please contact your SGS Project Manager.

Jennifer Serna

jennifer.serna@sgs.com
Project Manager

Contents (Bookmarked in PDF):

- Cover Page
- Glossary
- Sample Summary Forms
- Case Narrative
- Sample Results Forms
- Batch Summary Forms (by method)
- Quality Control Summary Forms (by method)
- Chain of Custody/Sample Receipt Forms
- Attachments (if applicable)

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. All work is provided under SGS general terms and conditions (<http://www.sgs.com/terms_and_conditions.htm>), unless other written agreements have been accepted by both parties.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035B, 6010B, 6020, 7470A, 7471B, 8021B, 8081B, 8082A, 8260B, 8270D, 8270D-SIM, 9040B, 9045C, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, the National Environmental Laboratory Accreditation Program and other regulatory authorities. The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV	Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 2xDL)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RL	Reporting Limit
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.



SAMPLE SUMMARY

Print Date: 4/30/2010 10:42 am

Client Name: The Environmental Company, Inc. (TEC)

Project Name: 3354-003 Red Hill BFSF

Workorder No.: 1101584

Analytical Methods

<u>Method Description</u>	<u>Analytical Method</u>
8270 PAH SIM Semi-Vol GC/MS Liq/Liq ext.	8270D SIMS
AFCEE 3.1 8260 (W)	SW8260B
Dissolved Metals by ICP-MS	SW6020
DRO by 8015C (W)	SW8015C
GRO (W)	SW8015C

Sample ID Cross Reference

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
1101584001	RHMW2254-WG19
1101584002	RHMW2254-WG19 MS
1101584003	RHMW2254-WG19 MSD
1101584004	RHMW03-WG19
1101584005	RHMW02-WG19
1101584006	RHMWA01-WG19
1101584007	RHMW01-WG19
1101584008	RHMW05-WG19
1101584009	TB01-WG19



Client Sample ID: **RHMW2254-WG19**

SGS Ref. #: 1101584001

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05

Receipt Date/Time: 04/15/10 11:10

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	0.620 U	1.00	0.310	ug/L	5	MMS6398	MXX22905	

Batch Information

Analytical Batch: MMS6398

Analytical Method: SW6020

Analysis Date/Time: 04/21/10 11:38

Dilution Factor: 5

Prep Batch: MXX22905

Prep Method: SW3010A

Prep Date/Time: 04/19/10 12:10

Initial Prep Wt./Vol.: 50 mL

Prep Extract Vol.: 50 mL

Container ID:1101584001-G

Analyst: NRB



Client Sample ID: **RHMW2254-WG19**

SGS Ref. #: 1101584001

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05

Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	60.0 U	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	105	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900

Analytical Method: SW8015C

Analysis Date/Time: 04/16/10 11:48

Dilution Factor: 1

Prep Batch: VXX20571

Prep Method: SW5030B

Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL

Prep Extract Vol.: 5 mL

Container ID:1101584001-A

Analyst: EAB



Client Sample ID: **RHMW2254-WG19**

SGS Ref. #: 1101584001

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05

Receipt Date/Time: 04/15/10 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.320 U	0.426	0.160	mg/L	1	XFC9164	XXX22502	
5a Androstane <sur>	88.8	50-150		%	1	XFC9164	XXX22502	

Batch Information

Analytical Batch: XFC9164

Analytical Method: SW8015C

Analysis Date/Time: 04/28/10 14:02

Dilution Factor: 1

Prep Batch: XXX22502

Prep Method: SW3520C

Prep Date/Time: 04/19/10 10:30

Initial Prep Wt./Vol.: 940 mL

Prep Extract Vol.: 1 mL

Container ID:1101584001-H

Analyst: LCE



Client Sample ID: **RHMW2254-WG19**

SGS Ref. #: 1101584001

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	

Client Sample ID: **RHMW2254-WG19**

SGS Ref. #: 1101584001

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
n-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surrogate>	101	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surrogate>	101	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surrogate>	97.6	80-120		%	1	VMS11176	VXX20578	



Client Sample ID: **RHMW2254-WG19**

SGS Ref. #: 1101584001

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176			Prep Batch: VXX20578				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 04/21/10 16:37			Prep Date/Time: 04/21/10 11:58				Container ID:1101584001-D	
Dilution Factor: 1							Analyst: DSH	



Client Sample ID: **RHMW2254-WG19**
SGS Ref. #: 1101584001
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 11:05
Receipt Date/Time: 04/15/10 11:10

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
1-Methylnaphthalene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
2-Methylnaphthalene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Acenaphthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Acenaphthylene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Anthracene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Benzo(a)Anthracene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Benzo[a]pyrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Benzo[b]Fluoranthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Benzo[g,h,i]perylene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Benzo[k]fluoranthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Chrysene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Dibenzo[a,h]anthracene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Fluoranthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Fluorene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Indeno[1,2,3-c,d] pyrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Naphthalene	0.0682 U	0.110	0.0341	ug/L	1	XMS5373	XXX22498	
Phenanthrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Pyrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5373	XXX22498	
Terphenyl-d14 <surr>	101	50-126		%	1	XMS5373	XXX22498	

Batch Information

Analytical Batch: XMS5373
Analytical Method: 8270D SIMS
Analysis Date/Time: 04/26/10 06:57
Dilution Factor: 1

Prep Batch: XXX22498
Prep Method: SW3520C
Prep Date/Time: 04/16/10 09:50

Initial Prep Wt./Vol.: 910 mL
Prep Extract Vol.: 1 mL
Container ID:1101584001-J
Analyst: JDH



Client Sample ID: **RHMW03-WG19**
SGS Ref. #: 1101584004
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55
Receipt Date/Time: 04/15/10 11:10

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	0.620 U	1.00	0.310	ug/L	5	MMS6398	MXX22905	

Batch Information

Analytical Batch: MMS6398
Analytical Method: SW6020
Analysis Date/Time: 04/21/10 11:48
Dilution Factor: 5

Prep Batch: MXX22905
Prep Method: SW3010A
Prep Date/Time: 04/19/10 12:10

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1101584004-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW03-WG19**
SGS Ref. #: 1101584004
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55
Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	60.0 U	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	110	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900
Analytical Method: SW8015C
Analysis Date/Time: 04/16/10 13:28
Dilution Factor: 1

Prep Batch: VXX20571
Prep Method: SW5030B
Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1101584004-A
Analyst: EAB



Client Sample ID: **RHMW03-WG19**
SGS Ref. #: 1101584004
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55
Receipt Date/Time: 04/15/10 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.320 U	0.426	0.160	mg/L	1	XFC9164	XXX22502	
5a Androstane <sur>	95.7	50-150		%	1	XFC9164	XXX22502	

Batch Information

Analytical Batch: XFC9164
Analytical Method: SW8015C
Analysis Date/Time: 04/28/10 15:05
Dilution Factor: 1

Prep Batch: XXX22502
Prep Method: SW3520C
Prep Date/Time: 04/19/10 10:30

Initial Prep Wt./Vol.: 940 mL
Prep Extract Vol.: 1 mL
Container ID:1101584004-H
Analyst: LCE

Client Sample ID: **RHMW03-WG19**

SGS Ref. #: 1101584004

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	

Client Sample ID: **RHMW03-WG19**

SGS Ref. #: 1101584004

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
n-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surrr>	99.5	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surrr>	100	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surrr>	98.7	80-120		%	1	VMS11176	VXX20578	



Client Sample ID: **RHMW03-WG19**
SGS Ref. #: 1101584004
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55
Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176			Prep Batch: VXX20578				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 04/21/10 17:04			Prep Date/Time: 04/21/10 11:58				Container ID:1101584004-D	
Dilution Factor: 1							Analyst: DSH	

Client Sample ID: **RHMW03-WG19**

SGS Ref. #: 1101584004

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 14:55

Receipt Date/Time: 04/15/10 11:10

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
1-Methylnaphthalene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
2-Methylnaphthalene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Acenaphthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Acenaphthylene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Anthracene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo(a)Anthracene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[a]pyrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[b]Fluoranthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[g,h,i]perylene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[k]fluoranthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Chrysene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Dibenzo[a,h]anthracene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Fluoranthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Fluorene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Indeno[1,2,3-c,d] pyrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Naphthalene	0.0666 U	0.108	0.0333	ug/L	1	XMS5372	XXX22499	
Phenanthrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Pyrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Terphenyl-d14 <surrg>	98.5	50-126		%	1	XMS5372	XXX22499	

Batch Information

Analytical Batch: XMS5372

Analytical Method: 8270D SIMS

Analysis Date/Time: 04/23/10 16:55

Dilution Factor: 1

Prep Batch: XXX22499

Prep Method: SW3520C

Prep Date/Time: 04/16/10 10:30

Initial Prep Wt./Vol.: 930 mL

Prep Extract Vol.: 1 mL

Container ID:1101584004-J

Analyst: JDH



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW02-WG19**
SGS Ref. #: 1101584005
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10
Receipt Date/Time: 04/15/10 11:10

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	0.620 U	1.00	0.310	ug/L	5	MMS6398	MXX22905	

Batch Information

Analytical Batch: MMS6398
Analytical Method: SW6020
Analysis Date/Time: 04/21/10 11:50
Dilution Factor: 5

Prep Batch: MXX22905
Prep Method: SW3010A
Prep Date/Time: 04/19/10 12:10

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1101584005-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW02-WG19**
SGS Ref. #: 1101584005
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10
Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	39.3J	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	122	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900
Analytical Method: SW8015C
Analysis Date/Time: 04/16/10 13:47
Dilution Factor: 1

Prep Batch: VXX20571
Prep Method: SW5030B
Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1101584005-A
Analyst: EAB



Client Sample ID: **RHMW02-WG19**

SGS Ref. #: 1101584005

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10

Receipt Date/Time: 04/15/10 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	2.35	0.426	0.160	mg/L	1	XFC9164	XXX22502	
5a Androstane <sur>	83.2	50-150		%	1	XFC9164	XXX22502	

Batch Information

Analytical Batch: XFC9164

Analytical Method: SW8015C

Analysis Date/Time: 04/28/10 15:28

Dilution Factor: 1

Prep Batch: XXX22502

Prep Method: SW3520C

Prep Date/Time: 04/19/10 10:30

Initial Prep Wt./Vol.: 940 mL

Prep Extract Vol.: 1 mL

Container ID:1101584005-H

Analyst: LCE



Client Sample ID: **RHMW02-WG19**
SGS Ref. #: 1101584005
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10
Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	



Client Sample ID: **RHMW02-WG19**
SGS Ref. #: 1101584005
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10
Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	4.15	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	20.6	2.00	0.620	ug/L	1	VMS11176	VXX20578	
n-Butylbenzene	3.40	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	6.24	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	4.33	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.840J	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surrogate>	100	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surrogate>	101	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surrogate>	96.9	80-120		%	1	VMS11176	VXX20578	



Client Sample ID: **RHMW02-WG19**

SGS Ref. #: 1101584005

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176			Prep Batch: VXX20578				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 04/21/10 17:31			Prep Date/Time: 04/21/10 11:58				Container ID:1101584005-D	
Dilution Factor: 1							Analyst: DSH	



Client Sample ID: RHMW02-WG19
SGS Ref. #: 1101584005
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 16:10
Receipt Date/Time: 04/15/10 11:10

Polynuclear Aromatics GC/MS

Table with 9 columns: Parameter, Result, LOQ/CL, DL, Units, DF, Analytical Batch, Prep Batch, Qualifiers. Lists various polynuclear aromatic hydrocarbons and their detection results.

Batch Information

Table with 3 columns: Analytical Batch, Prep Batch, Initial Prep Wt./Vol. Contains two rows of batch information for different analysis dates.



Client Sample ID: **RHMWA01-WG19**

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	0.620 U	1.00	0.310	ug/L	5	MMS6398	MXX22905	

Batch Information

Analytical Batch: MMS6398

Analytical Method: SW6020

Analysis Date/Time: 04/21/10 11:52

Dilution Factor: 5

Prep Batch: MXX22905

Prep Method: SW3010A

Prep Date/Time: 04/19/10 12:10

Initial Prep Wt./Vol.: 50 mL

Prep Extract Vol.: 50 mL

Container ID:1101584006-G

Analyst: NRB



Client Sample ID: **RHMWA01-WG19**

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	39.0J	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	120	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900

Analytical Method: SW8015C

Analysis Date/Time: 04/16/10 14:06

Dilution Factor: 1

Prep Batch: VXX20571

Prep Method: SW5030B

Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL

Prep Extract Vol.: 5 mL

Container ID:1101584006-A

Analyst: EAB



Client Sample ID: **RHMWA01-WG19**

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	2.08	0.430	0.161	mg/L	1	XFC9164	XXX22502	
5a Androstane <sur>	77.8	50-150		%	1	XFC9164	XXX22502	

Batch Information

Analytical Batch: XFC9164

Analytical Method: SW8015C

Analysis Date/Time: 04/28/10 15:49

Dilution Factor: 1

Prep Batch: XXX22502

Prep Method: SW3520C

Prep Date/Time: 04/19/10 10:30

Initial Prep Wt./Vol.: 930 mL

Prep Extract Vol.: 1 mL

Container ID:1101584006-H

Analyst: LCE

Client Sample ID: **RHMWA01-WG19**

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	

Client Sample ID: **RHMWA01-WG19**

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	4.08	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	21.4	2.00	0.620	ug/L	1	VMS11176	VXX20578	
n-Butylbenzene	3.56	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	6.44	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	4.34	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.790J	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surrr>	102	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surrr>	105	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surrr>	98	80-120		%	1	VMS11176	VXX20578	



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMWA01-WG19**

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176			Prep Batch: VXX20578				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 04/21/10 17:57			Prep Date/Time: 04/21/10 11:58				Container ID:1101584006-D	
Dilution Factor: 1							Analyst: DSH	



Client Sample ID: RHMWA01-WG19

SGS Ref. #: 1101584006

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 12:05

Receipt Date/Time: 04/15/10 11:10

Polynuclear Aromatics GC/MS

Parameter	Result	LOQ/CL	DL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1-Methylnaphthalene	5.90	0.549	0.165	ug/L	10	XMS5373	XXX22499	
2-Methylnaphthalene	1.90	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Acenaphthene	0.429	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Acenaphthylene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Anthracene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Benzo(a)Anthracene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Benzo[a]pyrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Benzo[b]Fluoranthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Benzo[g,h,i]perylene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Benzo[k]fluoranthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Chrysene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Dibenzo[a,h]anthracene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Fluoranthene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Fluorene	0.230	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Indeno[1,2,3-c,d] pyrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Naphthalene	12.7	1.10	0.341	ug/L	10	XMS5373	XXX22499	
Phenanthrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Pyrene	0.0330 U	0.0549	0.0165	ug/L	1	XMS5372	XXX22499	
Terphenyl-d14 <surr>	93.6	50-126		%	1	XMS5372	XXX22499	

Batch Information

Analytical Batch: XMS5372	Prep Batch: XXX22499	Initial Prep Wt./Vol.: 910 mL
Analytical Method: 8270D SIMS	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 04/23/10 17:32	Prep Date/Time: 04/16/10 10:30	Container ID:1101584006-J
Dilution Factor: 1		Analyst: JDH
Analytical Batch: XMS5373	Prep Batch: XXX22499	Initial Prep Wt./Vol.: 910 mL
Analytical Method: 8270D SIMS	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 04/25/10 22:12	Prep Date/Time: 04/16/10 10:30	Container ID:1101584006-J
Dilution Factor: 10		Analyst: JDH



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW01-WG19**
SGS Ref. #: 1101584007
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40
Receipt Date/Time: 04/15/10 11:10

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	0.620 U	1.00	0.310	ug/L	5	MMS6398	MXX22905	

Batch Information

Analytical Batch: MMS6398
Analytical Method: SW6020
Analysis Date/Time: 04/21/10 11:54
Dilution Factor: 5

Prep Batch: MXX22905
Prep Method: SW3010A
Prep Date/Time: 04/19/10 12:10

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1101584007-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW01-WG19**
SGS Ref. #: 1101584007
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40
Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	60.0 U	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	105	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900
Analytical Method: SW8015C
Analysis Date/Time: 04/16/10 14:25
Dilution Factor: 1

Prep Batch: VXX20571
Prep Method: SW5030B
Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1101584007-A
Analyst: EAB



Client Sample ID: **RHMW01-WG19**

SGS Ref. #: 1101584007

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40

Receipt Date/Time: 04/15/10 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.377J	0.435	0.163	mg/L	1	XFC9164	XXX22502	
5a Androstane <sur>	98.8	50-150		%	1	XFC9164	XXX22502	

Batch Information

Analytical Batch: XFC9164

Analytical Method: SW8015C

Analysis Date/Time: 04/28/10 16:10

Dilution Factor: 1

Prep Batch: XXX22502

Prep Method: SW3520C

Prep Date/Time: 04/19/10 10:30

Initial Prep Wt./Vol.: 920 mL

Prep Extract Vol.: 1 mL

Container ID:1101584007-H

Analyst: LCE

Client Sample ID: **RHMW01-WG19**

SGS Ref. #: 1101584007

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	

Client Sample ID: **RHMW01-WG19**

SGS Ref. #: 1101584007

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u>	<u>Prep</u>	<u>Qualifiers</u>
						<u>Batch</u>	<u>Batch</u>	
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	1.24 U	2.00	0.620	ug/L	1	VMS11182	VXX20584	
n-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surr>	104	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surr>	97.3	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surr>	98.9	80-120		%	1	VMS11176	VXX20578	



Client Sample ID: **RHMW01-WG19**

SGS Ref. #: 1101584007

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176							Prep Batch: VXX20578	Initial Prep Wt./Vol.: 5 mL
Analytical Method: SW8260B							Prep Method: SW5030B	Prep Extract Vol.: 5 mL
Analysis Date/Time: 04/21/10 18:24							Prep Date/Time: 04/21/10 11:58	Container ID:1101584007-D
Dilution Factor: 1								Analyst: DSH
Analytical Batch: VMS11182							Prep Batch: VXX20584	Initial Prep Wt./Vol.: 5 mL
Analytical Method: SW8260B							Prep Method: SW5030B	Prep Extract Vol.: 5 mL
Analysis Date/Time: 04/22/10 15:42							Prep Date/Time: 04/22/10 11:17	Container ID:1101584007-E
Dilution Factor: 1								Analyst: JDB



Client Sample ID: **RHMW01-WG19**
SGS Ref. #: 1101584007
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 18:40
Receipt Date/Time: 04/15/10 11:10

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
1-Methylnaphthalene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
2-Methylnaphthalene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Acenaphthene	0.0450J	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Acenaphthylene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Anthracene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo(a)Anthracene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[a]pyrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[b]Fluoranthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[g,h,i]perylene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Benzo[k]fluoranthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Chrysene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Dibenzo[a,h]anthracene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Fluoranthene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Fluorene	0.0455J	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Indeno[1,2,3-c,d] pyrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Naphthalene	0.0666 U	0.108	0.0333	ug/L	1	XMS5372	XXX22499	
Phenanthrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Pyrene	0.0322 U	0.0538	0.0161	ug/L	1	XMS5372	XXX22499	
Terphenyl-d14 <surr>	98.1	50-126		%	1	XMS5372	XXX22499	

Batch Information

Analytical Batch: XMS5372
Analytical Method: 8270D SIMS
Analysis Date/Time: 04/23/10 17:50
Dilution Factor: 1

Prep Batch: XXX22499
Prep Method: SW3520C
Prep Date/Time: 04/16/10 10:30

Initial Prep Wt./Vol.: 930 mL
Prep Extract Vol.: 1 mL
Container ID: 1101584007-J
Analyst: JDH



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW05-WG19**
SGS Ref. #: 1101584008
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20
Receipt Date/Time: 04/15/10 11:10

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	0.620 U	1.00	0.310	ug/L	5	MMS6398	MXX22905	

Batch Information

Analytical Batch: MMS6398
Analytical Method: SW6020
Analysis Date/Time: 04/21/10 12:06
Dilution Factor: 5

Prep Batch: MXX22905
Prep Method: SW3010A
Prep Date/Time: 04/19/10 12:10

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1101584008-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW05-WG19**
SGS Ref. #: 1101584008
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20
Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	60.0 U	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	99.5	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900
Analytical Method: SW8015C
Analysis Date/Time: 04/16/10 14:44
Dilution Factor: 1

Prep Batch: VXX20571
Prep Method: SW5030B
Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1101584008-A
Analyst: EAB



Client Sample ID: **RHMW05-WG19**
SGS Ref. #: 1101584008
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20
Receipt Date/Time: 04/15/10 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.300 U	0.400	0.150	mg/L	1	XFC9164	XXX22502	
5a Androstane <sur>	94.3	50-150		%	1	XFC9164	XXX22502	

Batch Information

Analytical Batch: XFC9164
Analytical Method: SW8015C
Analysis Date/Time: 04/28/10 16:52
Dilution Factor: 1

Prep Batch: XXX22502
Prep Method: SW3520C
Prep Date/Time: 04/19/10 10:30

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1101584008-H
Analyst: LCE

Client Sample ID: **RHMW05-WG19**

SGS Ref. #: 1101584008

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	

Client Sample ID: **RHMW05-WG19**

SGS Ref. #: 1101584008

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
n-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surrr>	99.6	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surrr>	105	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surrr>	97.8	80-120		%	1	VMS11176	VXX20578	



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **RHMW05-WG19**

SGS Ref. #: 1101584008

Project ID: 3354-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20

Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176			Prep Batch: VXX20578				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 04/21/10 18:50			Prep Date/Time: 04/21/10 11:58				Container ID:1101584008-D	
Dilution Factor: 1							Analyst: DSH	



Client Sample ID: **RHMW05-WG19**
SGS Ref. #: 1101584008
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 13:20
Receipt Date/Time: 04/15/10 11:10

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
1-Methylnaphthalene	0.0335J	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
2-Methylnaphthalene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Acenaphthene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Acenaphthylene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Anthracene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Benzo(a)Anthracene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Benzo[a]pyrene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Benzo[b]Fluoranthene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Benzo[g,h,i]perylene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Benzo[k]fluoranthene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Chrysene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Dibenzo[a,h]anthracene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Fluoranthene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Fluorene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Indeno[1,2,3-c,d] pyrene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Naphthalene	0.0752J	0.109	0.0337	ug/L	1	XMS5372	XXX22499	
Phenanthrene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Pyrene	0.0326 U	0.0543	0.0163	ug/L	1	XMS5372	XXX22499	
Terphenyl-d14 <surr>	101	50-126		%	1	XMS5372	XXX22499	

Batch Information

Analytical Batch: XMS5372
Analytical Method: 8270D SIMS
Analysis Date/Time: 04/23/10 18:09
Dilution Factor: 1

Prep Batch: XXX22499
Prep Method: SW3520C
Prep Date/Time: 04/16/10 10:30

Initial Prep Wt./Vol.: 920 mL
Prep Extract Vol.: 1 mL
Container ID:1101584008-J
Analyst: JDH



The Environmental Company, Inc. (TEC)

Print Date: 4/30/2010 10:42 am

Client Sample ID: **TB01-WG19**
SGS Ref. #: 1101584009
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 08:05
Receipt Date/Time: 04/15/10 11:10

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	60.0 U	100	30.0	ug/L	1	VFC9900	VXX20571	
4-Bromofluorobenzene <sur>	112	50-150		%	1	VFC9900	VXX20571	

Batch Information

Analytical Batch: VFC9900
Analytical Method: SW8015C
Analysis Date/Time: 04/16/10 11:29
Dilution Factor: 1

Prep Batch: VXX20571
Prep Method: SW5030B
Prep Date/Time: 04/16/10 09:20

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1101584009-A
Analyst: EAB



Client Sample ID: **TB01-WG19**
SGS Ref. #: 1101584009
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 08:05
Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Acetone	6.20 U	10.0	3.10	ug/L	1	VMS11176	VXX20578	
Benzene	0.240 U	0.400	0.120	ug/L	1	VMS11176	VXX20578	
Bromobenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromochloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Bromoform	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Bromomethane	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chlorobenzene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	



Client Sample ID: **TB01-WG19**
 SGS Ref. #: 1101584009
 Project ID: 3354-003 Red Hill BFSF
 Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 08:05
 Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Chloroethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Chloroform	0.600 U	1.00	0.300	ug/L	1	VMS11176	VXX20578	
Chloromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	1	VMS11176	VXX20578	
Dibromomethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Isopropylbenzene (Cumene)	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Methylene chloride	2.00 U	5.00	1.00	ug/L	1	VMS11176	VXX20578	
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	1	VMS11176	VXX20578	
Naphthalene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
n-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
n-Propylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
o-Xylene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1	VMS11176	VXX20578	
sec-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Styrene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
tert-Butylbenzene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Toluene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichloroethene	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Vinyl chloride	0.620 U	1.00	0.310	ug/L	1	VMS11176	VXX20578	
Xylenes (total)	1.88 U	3.00	0.940	ug/L	1	VMS11176	VXX20578	
1,2-Dichloroethane-D4 <surrogate>	96.6	73-120		%	1	VMS11176	VXX20578	
4-Bromofluorobenzene <surrogate>	103	76-120		%	1	VMS11176	VXX20578	
Toluene-d8 <surrogate>	98.1	80-120		%	1	VMS11176	VXX20578	



Client Sample ID: **TB01-WG19**
SGS Ref. #: 1101584009
Project ID: 3354-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 04/13/10 08:05
Receipt Date/Time: 04/15/10 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS11176			Prep Batch: VXX20578				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 04/21/10 16:11			Prep Date/Time: 04/21/10 11:58				Container ID:1101584009-B	
Dilution Factor: 1							Analyst: DSH	



SGS Ref.# 956901 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch XXX22498
Method SW3520C
Date 04/16/2010

QC results affect the following production samples:

1101584001

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
<u>Polynuclear Aromatics GC/MS</u>					
1-Methylnaphthalene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
2-Methylnaphthalene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Acenaphthene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Acenaphthylene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Anthracene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Benzo(a)Anthracene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Benzo[a]pyrene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Benzo[b]Fluoranthene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Benzo[g,h,i]perylene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Benzo[k]fluoranthene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Chrysene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Dibenzo[a,h]anthracene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Fluoranthene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Fluorene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Indeno[1,2,3-c,d] pyrene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Naphthalene	0.0620 U	0.100	0.0310	ug/L	04/26/10
Phenanthrene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Pyrene	0.0300 U	0.0500	0.0150	ug/L	04/26/10
Surrogates					
Terphenyl-d14 <surr>	103	50-126		%	04/26/10
Batch	XMS5373				
Method	8270D SIMS				
Instrument	HP 6890/5973 MS SVQA				



SGS Ref.# 956903 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch XXX22499
Method SW3520C
Date 04/16/2010

QC results affect the following production samples:

1101584004, 1101584005, 1101584006, 1101584007, 1101584008

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
<u>Polynuclear Aromatics GC/MS</u>					
1-Methylnaphthalene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
2-Methylnaphthalene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Acenaphthene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Acenaphthylene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Anthracene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Benzo(a)Anthracene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Benzo[a]pyrene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Benzo[b]Fluoranthene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Benzo[g,h,i]perylene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Benzo[k]fluoranthene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Chrysene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Dibenzo[a,h]anthracene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Fluoranthene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Fluorene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Indeno[1,2,3-c,d] pyrene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Naphthalene	0.0620 U	0.100	0.0310	ug/L	04/23/10
Phenanthrene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Pyrene	0.0300 U	0.0500	0.0150	ug/L	04/23/10
Surrogates					
Terphenyl-d14 <surr>	111	50-126		%	04/23/10
Batch	XMS5372				
Method	8270D SIMS				
Instrument	HP 6890/5973 MS SVQA				



SGS Ref.#	957070	Method Blank	Printed Date/Time	04/30/2010 10:42
Client Name	The Environmental Company, Inc. (TEC)		Prep	VXX20571
Project Name/#	3354-003 Red Hill BFSF		Batch	SW5030B
Matrix	Water (Surface, Eff., Ground)		Method	
			Date	04/16/2010

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008, 1101584009

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Volatile Fuels Department

Gasoline Range Organics	60.0 U	100	30.0	ug/L	04/16/10
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Surrogates

4-Bromofluorobenzene <surr>	107	50-150		%	04/16/10
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Batch VFC9900

Method SW8015C

Instrument HP 5890 Series II PID+FID VCA



SGS Ref.#	957073	Method Blank	Printed Date/Time	04/30/2010 10:42
Client Name	The Environmental Company, Inc. (TEC)		Prep	XXX22502
Project Name/#	3354-003 Red Hill BFSF		Batch	SW3520C
Matrix	Water (Surface, Eff., Ground)		Method	
			Date	04/19/2010

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Semivolatile Organic Fuels Department

Diesel Range Organics	0.300 U	0.400	0.150	mg/L	04/28/10
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Surrogates

5a Androstane <surr>	86.2	60-120		%	04/28/10
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Batch XFC9164

Method SW8015C

Instrument HP 7890A FID SV E R



SGS Ref.#	957189	Method Blank	Printed Date/Time	04/30/2010 10:42	
Client Name	The Environmental Company, Inc. (TEC)		Prep	Batch	MXX22905
Project Name/#	3354-003 Red Hill BFSF			Method	SW3010A
Matrix	Water (Surface, Eff., Ground)			Date	04/19/2010

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Metals by ICP/MS

Lead	0.620 U	1.00	0.310	ug/L	04/21/10
Batch	MMS6398				
Method	SW6020				
Instrument	Perkin Elmer Sciex ICP-MS P3				



SGS Ref.# 957639 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch VXX20578
Method SW5030B
Date 04/21/2010

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008, 1101584009

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 957639 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch VXX20578
Method SW5030B
Date 04/21/2010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1,1,1,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	04/21/10
1,1,1-Trichloroethane	0.620 U	1.00	0.310	ug/L	04/21/10
1,1,2,2-Tetrachloroethane	0.300 U	0.500	0.150	ug/L	04/21/10
1,1,2-Trichloroethane	0.620 U	1.00	0.310	ug/L	04/21/10
1,1-Dichloroethane	0.620 U	1.00	0.310	ug/L	04/21/10
1,1-Dichloroethene	0.620 U	1.00	0.310	ug/L	04/21/10
1,1-Dichloropropene	0.620 U	1.00	0.310	ug/L	04/21/10
1,2,3-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	04/21/10
1,2,3-Trichloropropane	0.620 U	1.00	0.310	ug/L	04/21/10
1,2,4-Trichlorobenzene	0.620 U	1.00	0.310	ug/L	04/21/10
1,2,4-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
1,2-Dibromo-3-chloropropane	1.24 U	2.00	0.620	ug/L	04/21/10
1,2-Dibromoethane	0.620 U	1.00	0.310	ug/L	04/21/10
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	04/21/10
1,2-Dichloroethane	0.300 U	0.500	0.150	ug/L	04/21/10
1,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	04/21/10
1,3,5-Trimethylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	04/21/10
1,3-Dichloropropane	0.240 U	0.400	0.120	ug/L	04/21/10
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	04/21/10
1-Chlorohexane	0.620 U	1.00	0.310	ug/L	04/21/10
2,2-Dichloropropane	0.620 U	1.00	0.310	ug/L	04/21/10
2-Butanone (MEK)	6.20 U	10.0	3.10	ug/L	04/21/10
2-Chlorotoluene	0.620 U	1.00	0.310	ug/L	04/21/10
4-Chlorotoluene	0.620 U	1.00	0.310	ug/L	04/21/10
4-Isopropyltoluene	0.620 U	1.00	0.310	ug/L	04/21/10
4-Methyl-2-pentanone (MIBK)	6.20 U	10.0	3.10	ug/L	04/21/10
Acetone	6.20 U	10.0	3.10	ug/L	04/21/10
Benzene	0.240 U	0.400	0.120	ug/L	04/21/10
Bromobenzene	0.620 U	1.00	0.310	ug/L	04/21/10
Bromochloromethane	0.620 U	1.00	0.310	ug/L	04/21/10
Bromodichloromethane	0.300 U	0.500	0.150	ug/L	04/21/10
Bromoform	0.620 U	1.00	0.310	ug/L	04/21/10
Bromomethane	1.88 U	3.00	0.940	ug/L	04/21/10
Carbon tetrachloride	0.620 U	1.00	0.310	ug/L	04/21/10
Chlorobenzene	0.300 U	0.500	0.150	ug/L	04/21/10
Chloroethane	0.620 U	1.00	0.310	ug/L	04/21/10
Chloroform	0.600 U	1.00	0.300	ug/L	04/21/10
Chloromethane	0.620 U	1.00	0.310	ug/L	04/21/10



SGS Ref.# 957639 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch VXX20578
Method SW5030B
Date 04/21/2010

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

cis-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	04/21/10
cis-1,3-Dichloropropene	0.300 U	0.500	0.150	ug/L	04/21/10
Dibromochloromethane	0.300 U	0.500	0.150	ug/L	04/21/10
Dibromomethane	0.620 U	1.00	0.310	ug/L	04/21/10
Dichlorodifluoromethane	0.620 U	1.00	0.310	ug/L	04/21/10
Ethylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
Hexachlorobutadiene	0.620 U	1.00	0.310	ug/L	04/21/10
Isopropylbenzene (Cumene)	0.620 U	1.00	0.310	ug/L	04/21/10
Methylene chloride	2.00 U	5.00	1.00	ug/L	04/21/10
Methyl-t-butyl ether	3.00 U	5.00	1.50	ug/L	04/21/10
Naphthalene	1.24 U	2.00	0.620	ug/L	04/21/10
n-Butylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
n-Propylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
o-Xylene	0.620 U	1.00	0.310	ug/L	04/21/10
P & M -Xylene	1.24 U	2.00	0.620	ug/L	04/21/10
sec-Butylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
Styrene	0.620 U	1.00	0.310	ug/L	04/21/10
tert-Butylbenzene	0.620 U	1.00	0.310	ug/L	04/21/10
Tetrachloroethene	0.620 U	1.00	0.310	ug/L	04/21/10
Toluene	0.620 U	1.00	0.310	ug/L	04/21/10
trans-1,2-Dichloroethene	0.620 U	1.00	0.310	ug/L	04/21/10
trans-1,3-Dichloropropene	0.620 U	1.00	0.310	ug/L	04/21/10
Trichloroethene	0.620 U	1.00	0.310	ug/L	04/21/10
Trichlorofluoromethane	0.620 U	1.00	0.310	ug/L	04/21/10
Vinyl chloride	0.620 U	1.00	0.310	ug/L	04/21/10
Xylenes (total)	1.88 U	3.00	0.940	ug/L	04/21/10

Surrogates

1,2-Dichloroethane-D4 <surr>	99.7	73-120		%	04/21/10
4-Bromofluorobenzene <surr>	99.8	76-120		%	04/21/10
Toluene-d8 <surr>	101	80-120		%	04/21/10

Batch VMS11176
Method SW8260B
Instrument HP 5890 Series II MS1 VJA



SGS Ref.# 957825 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch VXX20584
Method SW5030B
Date 04/22/2010

QC results affect the following production samples:

1101584007

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Naphthalene	1.24 U	2.00	0.620	ug/L	04/22/10
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Surrogates

1,2-Dichloroethane-D4 <surrogate>	97.7	73-120		%	04/22/10
4-Bromofluorobenzene <surrogate>	99	76-120		%	04/22/10
Toluene-d8 <surrogate>	100	80-120		%	04/22/10

Batch VMS11182
Method SW8260B
Instrument HP 5890 Series II MS1 VJA



SGS Ref.# 956902 Lab Control Sample

Printed Date/Time 04/30/2010 10:42
 Prep Batch XXX22498
 Method SW3520C
 Date 04/16/2010

Client Name The Environmental Company, Inc. (TEC)
 Project Name/# 3354-003 Red Hill BFSF
 Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:
 1101584001

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Polynuclear Aromatics GC/MS</u>							
1-Methylnaphthalene	LCS	0.424	85	(42-92)		0.5 ug/L	04/26/2010
2-Methylnaphthalene	LCS	0.370	74	(45-89)		0.5 ug/L	04/26/2010
Acenaphthene	LCS	0.416	83	(45-93)		0.5 ug/L	04/26/2010
Acenaphthylene	LCS	0.457	92	(50-101)		0.5 ug/L	04/26/2010
Anthracene	LCS	0.484	97	(55-105)		0.5 ug/L	04/26/2010
Benzo(a)Anthracene	LCS	0.478	96	(55-120)		0.5 ug/L	04/26/2010
Benzo[a]pyrene	LCS	0.404	81	(57-110)		0.5 ug/L	04/26/2010
Benzo[b]Fluoranthene	LCS	0.487	97	(45-120)		0.5 ug/L	04/26/2010
Benzo[g,h,i]perylene	LCS	0.400	80	(49-116)		0.5 ug/L	04/26/2010
Benzo[k]fluoranthene	LCS	0.430	86	(56-112)		0.5 ug/L	04/26/2010
Chrysene	LCS	0.508	102	(56-109)		0.5 ug/L	04/26/2010
Dibenzo[a,h]anthracene	LCS	0.447	89	(54-113)		0.5 ug/L	04/26/2010
Fluoranthene	LCS	0.494	99	(58-109)		0.5 ug/L	04/26/2010
Fluorene	LCS	0.453	91	(50-98)		0.5 ug/L	04/26/2010
Indeno[1,2,3-c,d] pyrene	LCS	0.427	85	(55-111)		0.5 ug/L	04/26/2010
Naphthalene	LCS	0.355	71	(44-89)		0.5 ug/L	04/26/2010
Phenanthrene	LCS	0.506	101	(50-104)		0.5 ug/L	04/26/2010
Pyrene	LCS	0.483	97	(56-105)		0.5 ug/L	04/26/2010
Surrogates							
Terphenyl-d14 <surr>	LCS		94	(50-126)			04/26/2010



SGS Ref.# 956902 Lab Control Sample

Printed Date/Time 04/30/2010 10:42

Client Name The Environmental Company, Inc. (TEC)

Prep Batch XXX22498

Project Name/# 3354-003 Red Hill BFSF

Method SW3520C

Matrix Water (Surface, Eff., Ground)

Date 04/16/2010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Polynuclear Aromatics GC/MS

Batch XMS5373
Method 8270D SIMS
Instrument HP 6890/5973 MS SVQA



SGS Ref.# 956904 Lab Control Sample
956905 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch XXX22499
Method SW3520C
Date 04/16/2010

QC results affect the following production samples:

1101584004, 1101584005, 1101584006, 1101584007, 1101584008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Polynuclear Aromatics GC/MS



SGS Ref.#	956904	Lab Control Sample	Printed Date/Time	04/30/2010	10:42
	956905	Lab Control Sample Duplicate	Prep	Batch	XXX22499
Client Name	The Environmental Company, Inc. (TEC)		Method	SW3520C	
Project Name/#	3354-003 Red Hill BFSF		Date	04/16/2010	
Matrix	Water (Surface, Eff., Ground)				

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polynuclear Aromatics GC/MS							
1-Methylnaphthalene	LCS	0.462	92 *	(42-92)		0.5 ug/L	04/23/2010
	LCSD	0.453	91		2	(< 30)	0.5 ug/L 04/23/2010
2-Methylnaphthalene	LCS	0.449	90 *	(45-89)		0.5 ug/L	04/23/2010
	LCSD	0.462	92 *		3	(< 30)	0.5 ug/L 04/23/2010
Acenaphthene	LCS	0.476	95 *	(45-93)		0.5 ug/L	04/23/2010
	LCSD	0.449	90		6	(< 30)	0.5 ug/L 04/23/2010
Acenaphthylene	LCS	0.483	97	(50-101)		0.5 ug/L	04/23/2010
	LCSD	0.461	92		5	(< 30)	0.5 ug/L 04/23/2010
Anthracene	LCS	0.505	101	(55-105)		0.5 ug/L	04/23/2010
	LCSD	0.477	95		6	(< 30)	0.5 ug/L 04/23/2010
Benzo(a)Anthracene	LCS	0.562	112	(55-120)		0.5 ug/L	04/23/2010
	LCSD	0.542	108		4	(< 30)	0.5 ug/L 04/23/2010
Benzo[a]pyrene	LCS	0.508	102	(57-110)		0.5 ug/L	04/23/2010
	LCSD	0.517	103		2	(< 30)	0.5 ug/L 04/23/2010
Benzo[b]Fluoranthene	LCS	0.566	113	(45-120)		0.5 ug/L	04/23/2010
	LCSD	0.550	110		3	(< 30)	0.5 ug/L 04/23/2010
Benzo[g,h,i]perylene	LCS	0.544	109	(49-116)		0.5 ug/L	04/23/2010
	LCSD	0.580	116		6	(< 30)	0.5 ug/L 04/23/2010
Benzo[k]fluoranthene	LCS	0.547	109	(56-112)		0.5 ug/L	04/23/2010
	LCSD	0.547	109		0	(< 30)	0.5 ug/L 04/23/2010
Chrysene	LCS	0.562	112 *	(56-109)		0.5 ug/L	04/23/2010
	LCSD	0.551	110 *		2	(< 30)	0.5 ug/L 04/23/2010
Dibenzo[a,h]anthracene	LCS	0.540	108	(54-113)		0.5 ug/L	04/23/2010
	LCSD	0.580	116 *		7	(< 30)	0.5 ug/L 04/23/2010
Fluoranthene	LCS	0.565	113 *	(58-109)		0.5 ug/L	04/23/2010
	LCSD	0.577	115 *		2	(< 30)	0.5 ug/L 04/23/2010
Fluorene	LCS	0.482	97	(50-98)		0.5 ug/L	04/23/2010
	LCSD	0.465	93		4	(< 30)	0.5 ug/L 04/23/2010



SGS Ref.#	956904	Lab Control Sample	Printed Date/Time	04/30/2010	10:42
	956905	Lab Control Sample Duplicate	Prep	Batch	XXX22499
Client Name	The Environmental Company, Inc. (TEC)		Method	SW3520C	
Project Name/#	3354-003 Red Hill BFSF		Date	04/16/2010	
Matrix	Water (Surface, Eff., Ground)				

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Polynuclear Aromatics GC/MS

Indeno[1,2,3-c,d] pyrene	LCS	0.542	108	(55-111)			0.5 ug/L	04/23/2010
	LCSD	0.582	116 *		7	(< 30)	0.5 ug/L	04/23/2010
Naphthalene	LCS	0.404	81	(44-89)			0.5 ug/L	04/23/2010
	LCSD	0.402	80		1	(< 30)	0.5 ug/L	04/23/2010
Phenanthrene	LCS	0.515	103	(50-104)			0.5 ug/L	04/23/2010
	LCSD	0.491	98		5	(< 30)	0.5 ug/L	04/23/2010
Pyrene	LCS	0.543	109 *	(56-105)			0.5 ug/L	04/23/2010
	LCSD	0.550	110 *		1	(< 30)	0.5 ug/L	04/23/2010

Surrogates

Terphenyl-d14 <surr>	LCS		100	(50-126)				04/23/2010
	LCSD		105		5			04/23/2010

Batch XMS5372
Method 8270D SIMS
Instrument HP 6890/5973 MS SVQA



SGS Ref.# 957071 Lab Control Sample
957072 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch VXX20571
Method SW5030B
Date 04/16/2010

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008, 1101584009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Fuels Department

Gasoline Range Organics	LCS	216	108	(79-108)		200 ug/L	04/16/2010
	LCSD	205	102		5	(< 20)	200 ug/L 04/16/2010

Surrogates

4-Bromofluorobenzene <surr>	LCS		108	(50-150)			04/16/2010
	LCSD		105		3		04/16/2010

Batch VFC9900
Method SW8015C
Instrument HP 5890 Series II PID+FID VCA



SGS Ref.# 957190 Lab Control Sample

Printed Date/Time 04/30/2010 10:42
Prep Batch MXX22905
Method SW3010A
Date 04/19/2010

Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Metals by ICP/MS

Lead	LCS	1010	101	(80-120)		1000 ug/L	04/21/2010
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Batch MMS6398
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3



SGS Ref.# 957640 Lab Control Sample

Printed Date/Time 04/30/2010 10:42

Client Name The Environmental Company, Inc. (TEC)

Prep Batch VXX20578

Project Name/# 3354-003 Red Hill BFSF

Method SW5030B

Matrix Water (Surface, Eff., Ground)

Date 04/21/2010

QC results affect the following production samples:

1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008, 1101584009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 957640 Lab Control Sample

Printed Date/Time 04/30/2010 10:42

Prep Batch VXX20578

Client Name The Environmental Company, Inc. (TEC)

Method SW5030B

Project Name/# 3354-003 Red Hill BFSF

Date 04/21/2010

Matrix Water (Surface, Eff., Ground)

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>								
1,1,1,2-Tetrachloroethane	LCS	27.5	92	(80-120)			30 ug/L	04/21/2010
1,1,1-Trichloroethane	LCS	31.2	104	(80-122)			30 ug/L	04/21/2010
1,1,2,2-Tetrachloroethane	LCS	32.4	108	(76-123)			30 ug/L	04/21/2010
1,1,2-Trichloroethane	LCS	29.7	99	(77-120)			30 ug/L	04/21/2010
1,1-Dichloroethane	LCS	32.2	107	(80-120)			30 ug/L	04/21/2010
1,1-Dichloroethene	LCS	33.9	113	(76-130)			30 ug/L	04/21/2010
1,1-Dichloropropene	LCS	31.7	106	(80-122)			30 ug/L	04/21/2010
1,2,3-Trichlorobenzene	LCS	28.1	94	(77-120)			30 ug/L	04/21/2010
1,2,3-Trichloropropane	LCS	30.9	103	(80-120)			30 ug/L	04/21/2010
1,2,4-Trichlorobenzene	LCS	29.4	98	(80-120)			30 ug/L	04/21/2010
1,2,4-Trimethylbenzene	LCS	30.6	102	(80-125)			30 ug/L	04/21/2010
1,2-Dibromo-3-chloropropane	LCS	31.4	105	(73-130)			30 ug/L	04/21/2010
1,2-Dibromoethane	LCS	30.4	101	(80-120)			30 ug/L	04/21/2010
1,2-Dichlorobenzene	LCS	29.3	98	(80-120)			30 ug/L	04/21/2010
1,2-Dichloroethane	LCS	31.9	106	(80-129)			30 ug/L	04/21/2010
1,2-Dichloropropane	LCS	31.3	104	(80-121)			30 ug/L	04/21/2010
1,3,5-Trimethylbenzene	LCS	30.8	103	(80-128)			30 ug/L	04/21/2010
1,3-Dichlorobenzene	LCS	29.6	99	(80-120)			30 ug/L	04/21/2010
1,3-Dichloropropane	LCS	29.1	97	(80-121)			30 ug/L	04/21/2010
1,4-Dichlorobenzene	LCS	30.1	100	(80-120)			30 ug/L	04/21/2010
1-Chlorohexane	LCS	47.9	106	(70-125)			45 ug/L	04/21/2010



SGS Ref.# 957640 Lab Control Sample

Printed Date/Time 04/30/2010 10:42

Prep Batch VXX20578

Client Name The Environmental Company, Inc. (TEC)

Method SW5030B

Project Name/# 3354-003 Red Hill BFSF

Date 04/21/2010

Matrix Water (Surface, Eff., Ground)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

2,2-Dichloropropane	LCS	33.6	112	(80-132)		30 ug/L	04/21/2010
2-Butanone (MEK)	LCS	102	113	(66-136)		90 ug/L	04/21/2010
2-Chlorotoluene	LCS	30.4	101	(80-125)		30 ug/L	04/21/2010
4-Chlorotoluene	LCS	30.8	103	(79-128)		30 ug/L	04/21/2010
4-Isopropyltoluene	LCS	29.4	98	(80-125)		30 ug/L	04/21/2010
4-Methyl-2-pentanone (MIBK)	LCS	93.9	104	(69-134)		90 ug/L	04/21/2010
Acetone	LCS	93.6	104	(50-135)		90 ug/L	04/21/2010
Benzene	LCS	32.0	107	(80-120)		30 ug/L	04/21/2010
Bromobenzene	LCS	29.8	99	(80-120)		30 ug/L	04/21/2010
Bromochloromethane	LCS	30.6	102	(77-129)		30 ug/L	04/21/2010
Bromodichloromethane	LCS	29.7	99	(80-120)		30 ug/L	04/21/2010
Bromoform	LCS	27.0	90	(80-120)		30 ug/L	04/21/2010
Bromomethane	LCS	26.9	90	(30-140)		30 ug/L	04/21/2010
Carbon tetrachloride	LCS	30.7	102	(80-126)		30 ug/L	04/21/2010
Chlorobenzene	LCS	29.7	99	(80-120)		30 ug/L	04/21/2010
Chloroethane	LCS	30.7	102	(67-133)		30 ug/L	04/21/2010
Chloroform	LCS	31.4	105	(80-124)		30 ug/L	04/21/2010
Chloromethane	LCS	32.0	107	(67-125)		30 ug/L	04/21/2010
cis-1,2-Dichloroethene	LCS	32.1	107	(80-125)		30 ug/L	04/21/2010
cis-1,3-Dichloropropene	LCS	29.7	99	(80-120)		30 ug/L	04/21/2010



SGS Ref.# 957640 Lab Control Sample

Printed Date/Time 04/30/2010 10:42

Prep Batch VXX20578

Client Name The Environmental Company, Inc. (TEC)

Method SW5030B

Project Name/# 3354-003 Red Hill BFSF

Date 04/21/2010

Matrix Water (Surface, Eff., Ground)

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>								
Dibromochloromethane	LCS	27.7	92	(80-120)			30 ug/L	04/21/2010
Dibromomethane	LCS	32.4	108	(80-120)			30 ug/L	04/21/2010
Dichlorodifluoromethane	LCS	30.5	102	(62-153)			30 ug/L	04/21/2010
Ethylbenzene	LCS	29.6	99	(80-120)			30 ug/L	04/21/2010
Hexachlorobutadiene	LCS	26.3	88	(77-125)			30 ug/L	04/21/2010
Isopropylbenzene (Cumene)	LCS	29.0	97	(80-121)			30 ug/L	04/21/2010
Methylene chloride	LCS	30.1	100	(63-131)			30 ug/L	04/21/2010
Methyl-t-butyl ether	LCS	49.5	110	(80-120)			45 ug/L	04/21/2010
Naphthalene	LCS	30.1	100	(75-120)			30 ug/L	04/21/2010
n-Butylbenzene	LCS	31.1	104	(80-124)			30 ug/L	04/21/2010
n-Propylbenzene	LCS	30.8	103	(80-129)			30 ug/L	04/21/2010
o-Xylene	LCS	29.3	98	(80-120)			30 ug/L	04/21/2010
P & M -Xylene	LCS	60.8	101	(80-120)			60 ug/L	04/21/2010
sec-Butylbenzene	LCS	29.1	97	(80-120)			30 ug/L	04/21/2010
Styrene	LCS	29.7	99	(80-120)			30 ug/L	04/21/2010
tert-Butylbenzene	LCS	30.1	100	(80-122)			30 ug/L	04/21/2010
Tetrachloroethene	LCS	29.0	97	(79-122)			30 ug/L	04/21/2010
Toluene	LCS	30.2	101	(77-120)			30 ug/L	04/21/2010
trans-1,2-Dichloroethene	LCS	33.0	110	(79-132)			30 ug/L	04/21/2010
trans-1,3-Dichloropropene	LCS	27.9	93	(80-124)			30 ug/L	04/21/2010
Trichloroethene	LCS	31.4	105	(80-125)			30 ug/L	04/21/2010



SGS Ref.# 957640 Lab Control Sample

Printed Date/Time 04/30/2010 10:42

Client Name The Environmental Company, Inc. (TEC)

Prep Batch VXX20578

Project Name/# 3354-003 Red Hill BFSF

Method SW5030B

Matrix Water (Surface, Eff., Ground)

Date 04/21/2010

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatiles Gas Chromatography/Mass Spectroscopy

Trichlorofluoromethane	LCS	31.0	103	(68-145)		30 ug/L	04/21/2010
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Vinyl chloride	LCS	29.5	98	(72-145)		30 ug/L	04/21/2010
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Xylenes (total)	LCS	90.1	100	(80-120)		90 ug/L	04/21/2010
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Surrogates

1,2-Dichloroethane-D4 <surr>	LCS		98	(73-120)			04/21/2010
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4-Bromofluorobenzene <surr>	LCS		102	(76-120)			04/21/2010
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Toluene-d8 <surr>	LCS		97	(80-120)			04/21/2010
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Batch VMS11176

Method SW8260B

Instrument HP 5890 Series II MS1 VJA



SGS Ref.# 957826 Lab Control Sample
 957827 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 04/30/2010 10:42
Prep Batch VXX20584
Method SW5030B
Date 04/22/2010

QC results affect the following production samples:
 1101584007

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Naphthalene	LCS	29.2	97	(75-120)			
	LCSD	31.2	104		7	(< 20)	30 ug/L 30 ug/L

Surrogates

1,2-Dichloroethane-D4 <surr>	LCS		98	(73-120)			04/22/2010
	LCSD		96		1		04/22/2010
4-Bromofluorobenzene <surr>	LCS		98	(76-120)			04/22/2010
	LCSD		97		0		04/22/2010
Toluene-d8 <surr>	LCS		97	(80-120)			04/22/2010
	LCSD		97		1		04/22/2010

Batch VMS11182
Method SW8260B
Instrument HP 5890 Series II MS1 VJA



SGS Ref.# 958549 Lab Control Sample

Printed Date/Time 04/30/2010 10:42
Prep Batch XXX22502
Method SW3520C
Date 04/19/2010

Client Name The Environmental Company, Inc. (TEC)
Project Name/# 3354-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:
1101584001, 1101584004, 1101584005, 1101584006, 1101584007, 1101584008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Semivolatile Organic Fuels Department

Diesel Range Organics	LCS	4.00	80	(75-125)		5 mg/L	04/28/2010
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Surrogates

5a Androstane <surr>	LCS		82	(60-120)			04/28/2010
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Batch XFC9164
Method SW8015C
Instrument HP 7890A FID SV E R



SGS Ref.# 1101584002 Billable Matrix Spike
 1101584003 Billable Matrix Spike Dup.
Printed Date/Time 04/30/2010 10:42
Prep **Batch** MXX22905
Method 3010 H2O Digest for Metals ICI
Date 04/19/2010
Original 1101584001
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Dissolved Metals by ICP/MS</u>									
Lead	BMS	(0.620) U	969	97	(80-120)			1000	ug/L 04/21/2010
	BMSD		994	99		3	(< 15)	1000	ug/L 04/21/2010
Batch	MMS6398								
Method	SW6020								
Instrument	Perkin Elmer Sciex ICP-MS P3								

Volatile Fuels Department

Gasoline Range Organics	BMS	(60.0) U	475	106	(79-108)			450	ug/L 04/16/2010
	BMSD		487	108		3	(< 20)	450	ug/L 04/16/2010
Surrogates									
4-Bromofluorobenzene <surr>	BMS		58.9	118	(50-150)				04/16/2010
	BMSD		56.1	112		5			04/16/2010
Batch	VFC9900								
Method	SW8015C								
Instrument	HP 5890 Series II PID+FID VCA								

Semivolatile Organic Fuels Department

Diesel Range Organics	BMS	(0.320) U	4.9	91	(75-125)			5.38	mg/L 04/28/2010
	BMSD		4.55	87		8	(< 30)	5.26	mg/L 04/28/2010
Surrogates									
5a Androstane <surr>	BMS		.104	97	(50-150)				04/28/2010
	BMSD		0.0993	94		5			04/28/2010
Batch	XFC9164								
Method	SW8015C								
Instrument	HP 7890A FID SV E R								

Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 1101584002 Billable Matrix Spike
 1101584003 Billable Matrix Spike Dup.

Printed Date/Time 04/30/2010 10:42
 Prep Batch VXX20578
 Method Volatiles Extraction AFCEE 3.1
 Date 04/21/2010

Original 1101584001
 Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1,1,1,2-Tetrachloroethane	BMS (0.300) U	26		87	(80-120)			30.0	ug/L 04/21/2010
	BMSD	27.8		93		7	(< 20)	30.0	ug/L 04/21/2010
1,1,1-Trichloroethane	BMS (0.620) U	31.1		104	(80-122)			30.0	ug/L 04/21/2010
	BMSD	31.0		103		0	(< 20)	30.0	ug/L 04/21/2010
1,1,2,2-Tetrachloroethane	BMS (0.300) U	27.9		93	(76-123)			30.0	ug/L 04/21/2010
	BMSD	31.0		103		10	(< 20)	30.0	ug/L 04/21/2010
1,1,2-Trichloroethane	BMS (0.620) U	27.9		93	(77-120)			30.0	ug/L 04/21/2010
	BMSD	30.1		100		8	(< 20)	30.0	ug/L 04/21/2010
1,1-Dichloroethane	BMS (0.620) U	31.1		104	(80-120)			30.0	ug/L 04/21/2010
	BMSD	32.1		107		3	(< 20)	30.0	ug/L 04/21/2010
1,1-Dichloroethene	BMS (0.620) U	32.9		110	(76-130)			30.0	ug/L 04/21/2010
	BMSD	32.4		108		1	(< 20)	30.0	ug/L 04/21/2010
1,1-Dichloropropene	BMS (0.620) U	30.8		103	(80-122)			30.0	ug/L 04/21/2010
	BMSD	31.3		104		2	(< 20)	30.0	ug/L 04/21/2010
1,2,3-Trichlorobenzene	BMS (0.620) U	27.1		90	(77-120)			30.0	ug/L 04/21/2010
	BMSD	28.9		96		6	(< 20)	30.0	ug/L 04/21/2010
1,2,3-Trichloropropane	BMS (0.620) U	27		90	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.8		99		10	(< 20)	30.0	ug/L 04/21/2010
1,2,4-Trichlorobenzene	BMS (0.620) U	28.4		95	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.6		99		4	(< 20)	30.0	ug/L 04/21/2010
1,2,4-Trimethylbenzene	BMS (0.620) U	29		97	(80-125)			30.0	ug/L 04/21/2010
	BMSD	30.5		102		5	(< 20)	30.0	ug/L 04/21/2010
1,2-Dibromo-3-chloropropane	BMS (1.24) U	26.9		90	(73-130)			30.0	ug/L 04/21/2010
	BMSD	30.8		103		13	(< 20)	30.0	ug/L 04/21/2010
1,2-Dibromoethane	BMS (0.620) U	28.2		94	(80-120)			30.0	ug/L 04/21/2010
	BMSD	30.4		101		7	(< 20)	30.0	ug/L 04/21/2010
1,2-Dichlorobenzene	BMS (0.620) U	27.9		93	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.0		97		4	(< 20)	30.0	ug/L 04/21/2010
1,2-Dichloroethane	BMS (0.300) U	29.5		98	(80-129)			30.0	ug/L 04/21/2010
	BMSD	31.0		103		5	(< 20)	30.0	ug/L 04/21/2010
1,2-Dichloropropane	BMS (0.620) U	30.1		100	(80-121)			30.0	ug/L 04/21/2010
	BMSD	31.7		106		5	(< 20)	30.0	ug/L 04/21/2010
1,3,5-Trimethylbenzene	BMS (0.620) U	29.1		97	(80-128)			30.0	ug/L 04/21/2010
	BMSD	30.8		103		6	(< 20)	30.0	ug/L 04/21/2010
1,3-Dichlorobenzene	BMS (0.620) U	28.6		96	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.8		99		4	(< 20)	30.0	ug/L 04/21/2010
1,3-Dichloropropane	BMS (0.240) U	27		90	(80-121)			30.0	ug/L 04/21/2010
	BMSD	29.0		97		7	(< 20)	30.0	ug/L 04/21/2010
1,4-Dichlorobenzene	BMS (0.300) U	29.1		97	(80-120)			30.0	ug/L 04/21/2010
	BMSD	30.2		101		4	(< 20)	30.0	ug/L 04/21/2010



SGS Ref.# 1101584002 Billable Matrix Spike
 1101584003 Billable Matrix Spike Dup.

Printed Date/Time 04/30/2010 10:42
 Prep Batch VXX20578
 Method Volatiles Extraction AFCEE 3.1
 Date 04/21/2010

Original 1101584001
 Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1-Chlorohexane	BMS (0.620) U	45.3	101	(70-125)				45.0	ug/L 04/21/2010
	BMSD	48.1	107		6	(< 20)		45.0	ug/L 04/21/2010
2,2-Dichloropropane	BMS (0.620) U	30.5	102	(80-132)				30.0	ug/L 04/21/2010
	BMSD	34.3	114		12	(< 20)		30.0	ug/L 04/21/2010
2-Butanone (MEK)	BMS (6.20) U	83.8	93	(66-136)				90.0	ug/L 04/21/2010
	BMSD	96.5	107		14	(< 20)		90.0	ug/L 04/21/2010
2-Chlorotoluene	BMS (0.620) U	28.7	96	(80-125)				30.0	ug/L 04/21/2010
	BMSD	30.3	101		6	(< 20)		30.0	ug/L 04/21/2010
4-Chlorotoluene	BMS (0.620) U	29	97	(79-128)				30.0	ug/L 04/21/2010
	BMSD	30.9	103		6	(< 20)		30.0	ug/L 04/21/2010
4-Isopropyltoluene	BMS (0.620) U	28.2	94	(80-125)				30.0	ug/L 04/21/2010
	BMSD	29.3	98		4	(< 20)		30.0	ug/L 04/21/2010
4-Methyl-2-pentanone (MIBK)	BMS (6.20) U	80.3	89	(69-134)				90.0	ug/L 04/21/2010
	BMSD	89.9	100		11	(< 20)		90.0	ug/L 04/21/2010
Acetone	BMS (6.20) U	77.7	86	(50-135)				90.0	ug/L 04/21/2010
	BMSD	84.5	94		8	(< 20)		90.0	ug/L 04/21/2010
Benzene	BMS (0.240) U	30.3	101	(80-120)				30.0	ug/L 04/21/2010
	BMSD	31.3	104		3	(< 20)		30.0	ug/L 04/21/2010
Bromobenzene	BMS (0.620) U	28.6	95	(80-120)				30.0	ug/L 04/21/2010
	BMSD	29.8	99		4	(< 20)		30.0	ug/L 04/21/2010
Bromochloromethane	BMS (0.620) U	29.8	99	(77-129)				30.0	ug/L 04/21/2010
	BMSD	30.1	100		1	(< 20)		30.0	ug/L 04/21/2010
Bromodichloromethane	BMS (0.300) U	28.7	96	(80-120)				30.0	ug/L 04/21/2010
	BMSD	30.1	100		5	(< 20)		30.0	ug/L 04/21/2010
Bromoform	BMS (0.620) U	26	87	(80-120)				30.0	ug/L 04/21/2010
	BMSD	27.5	92		6	(< 20)		30.0	ug/L 04/21/2010
Bromomethane	BMS (1.88) U	34.1	114	(30-140)				30.0	ug/L 04/21/2010
	BMSD	34.5	115		1	(< 20)		30.0	ug/L 04/21/2010
Carbon tetrachloride	BMS (0.620) U	31	103	(80-126)				30.0	ug/L 04/21/2010
	BMSD	31.2	104		0	(< 20)		30.0	ug/L 04/21/2010
Chlorobenzene	BMS (0.300) U	29.2	97	(80-120)				30.0	ug/L 04/21/2010
	BMSD	30.5	102		5	(< 20)		30.0	ug/L 04/21/2010
Chloroethane	BMS (0.620) U	28.8	96	(67-133)				30.0	ug/L 04/21/2010
	BMSD	30.0	100		4	(< 20)		30.0	ug/L 04/21/2010
Chloroform	BMS (0.600) U	30.9	103	(80-124)				30.0	ug/L 04/21/2010
	BMSD	31.5	105		2	(< 20)		30.0	ug/L 04/21/2010
Chloromethane	BMS (0.620) U	28.7	96	(67-125)				30.0	ug/L 04/21/2010
	BMSD	30.5	102		6	(< 20)		30.0	ug/L 04/21/2010
cis-1,2-Dichloroethene	BMS (0.620) U	31.5	105	(80-125)				30.0	ug/L 04/21/2010
	BMSD	32.3	108		3	(< 20)		30.0	ug/L 04/21/2010



SGS Ref.# 1101584002 Billable Matrix Spike
 1101584003 Billable Matrix Spike Dup.

Printed Date/Time 04/30/2010 10:42
 Prep Batch VXX20578
 Method Volatiles Extraction AFCEE 3.1
 Date 04/21/2010

Original 1101584001
 Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
cis-1,3-Dichloropropene	BMS (0.300) U	28.5		95	(80-120)			30.0	ug/L 04/21/2010
	BMSD	30.4		101		7	(< 20)	30.0	ug/L 04/21/2010
Dibromochloromethane	BMS (0.300) U	26.9		90	(80-120)			30.0	ug/L 04/21/2010
	BMSD	28.3		94		5	(< 20)	30.0	ug/L 04/21/2010
Dibromomethane	BMS (0.620) U	30.9		103	(80-120)			30.0	ug/L 04/21/2010
	BMSD	32.2		107		4	(< 20)	30.0	ug/L 04/21/2010
Dichlorodifluoromethane	BMS (0.620) U	25.9		86	(62-153)			30.0	ug/L 04/21/2010
	BMSD	26.4		88		2	(< 20)	30.0	ug/L 04/21/2010
Ethylbenzene	BMS (0.620) U	28.3		94	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.8		99		5	(< 20)	30.0	ug/L 04/21/2010
Hexachlorobutadiene	BMS (0.620) U	26.6		89	(77-125)			30.0	ug/L 04/21/2010
	BMSD	27.4		91		3	(< 20)	30.0	ug/L 04/21/2010
Isopropylbenzene (Cumene)	BMS (0.620) U	28.3		94	(80-121)			30.0	ug/L 04/21/2010
	BMSD	29.6		99		5	(< 20)	30.0	ug/L 04/21/2010
Methylene chloride	BMS (2.00) U	29.7		99	(63-131)			30.0	ug/L 04/21/2010
	BMSD	30.3		101		2	(< 20)	30.0	ug/L 04/21/2010
Methyl-t-butyl ether	BMS (3.00) U	44.4		99	(80-120)			45.0	ug/L 04/21/2010
	BMSD	47.8		106		7	(< 20)	45.0	ug/L 04/21/2010
Naphthalene	BMS (1.24) U	27		90	(75-120)			30.0	ug/L 04/21/2010
	BMSD	30.6		102		13	(< 20)	30.0	ug/L 04/21/2010
n-Butylbenzene	BMS (0.620) U	29.1		97	(80-124)			30.0	ug/L 04/21/2010
	BMSD	30.7		102		5	(< 20)	30.0	ug/L 04/21/2010
n-Propylbenzene	BMS (0.620) U	29.1		97	(80-129)			30.0	ug/L 04/21/2010
	BMSD	30.6		102		5	(< 20)	30.0	ug/L 04/21/2010
o-Xylene	BMS (0.620) U	28.3		95	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.6		99		4	(< 20)	30.0	ug/L 04/21/2010
P & M -Xylene	BMS (1.24) U	58.5		98	(80-120)			60.0	ug/L 04/21/2010
	BMSD	61.1		102		4	(< 20)	60.0	ug/L 04/21/2010
sec-Butylbenzene	BMS (0.620) U	27.6		92	(80-120)			30.0	ug/L 04/21/2010
	BMSD	29.2		97		6	(< 20)	30.0	ug/L 04/21/2010
Styrene	BMS (0.620) U	28.2		94	(80-120)			30.0	ug/L 04/21/2010
	BMSD	30.0		100		6	(< 20)	30.0	ug/L 04/21/2010
tert-Butylbenzene	BMS (0.620) U	28.7		96	(80-122)			30.0	ug/L 04/21/2010
	BMSD	30.0		100		4	(< 20)	30.0	ug/L 04/21/2010
Tetrachloroethene	BMS (0.620) U	29.1		97	(79-122)			30.0	ug/L 04/21/2010
	BMSD	29.4		98		1	(< 20)	30.0	ug/L 04/21/2010
Toluene	BMS (0.620) U	29.4		98	(77-120)			30.0	ug/L 04/21/2010
	BMSD	30.8		103		5	(< 20)	30.0	ug/L 04/21/2010
trans-1,2-Dichloroethene	BMS (0.620) U	32.4		108	(79-132)			30.0	ug/L 04/21/2010
	BMSD	32.6		109		0	(< 20)	30.0	ug/L 04/21/2010



SGS Ref.#	1101584002	Billable Matrix Spike	Printed Date/Time	04/30/2010 10:42
	1101584003	Billable Matrix Spike Dup.	Prep	VXX20578
			Batch	Volatiles Extraction AFCEE 3.1
			Method	04/21/2010
			Date	
Original	1101584001			
Matrix	Water (Surface, Eff., Ground)			

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

trans-1,3-Dichloropropene	BMS (0.620) U	25.4		85	(80-124)			30.0	ug/L 04/21/2010
	BMSD	29.1		97		14	(< 20)	30.0	ug/L 04/21/2010
Trichloroethene	BMS (0.620) U	30.4		101	(80-125)			30.0	ug/L 04/21/2010
	BMSD	31.0		103		2	(< 20)	30.0	ug/L 04/21/2010
Trichlorofluoromethane	BMS (0.620) U	30.3		101	(68-145)			30.0	ug/L 04/21/2010
	BMSD	30.1		100		1	(< 20)	30.0	ug/L 04/21/2010
Vinyl chloride	BMS (0.620) U	27.3		91	(72-145)			30.0	ug/L 04/21/2010
	BMSD	28.2		94		3	(< 20)	30.0	ug/L 04/21/2010
Xylenes (total)	BMS (1.88) U	86.8		97	(80-120)			90.0	ug/L 04/21/2010
	BMSD	90.7		101		4	(< 20)	90.0	ug/L 04/21/2010

Surrogates

1,2-Dichloroethane-D4 <surr>	BMS	29.5		98	(73-120)				04/21/2010
	BMSD	29.1		97		1			04/21/2010
4-Bromofluorobenzene <surr>	BMS	29.8		99	(76-120)				04/21/2010
	BMSD	30.0		100		1			04/21/2010
Toluene-d8 <surr>	BMS	29.3		98	(80-120)				04/21/2010
	BMSD	29.4		98		1			04/21/2010

Batch VMS11176
Method SW8260B
Instrument HP 5890 Series II MS1 VJA

Polynuclear Aromatics GC/MS



SGS Ref.# 1101584002 Billable Matrix Spike **Printed Date/Time** 04/30/2010 10:42
 1101584003 Billable Matrix Spike Dup. **Prep Batch** XXX22498
Method 3520 Liquid/Liquid Ext for 827/
Date 04/16/2010

Original 1101584001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polynuclear Aromatics GC/MS									
1-Methylnaphthalene	BMS (0.0330) U	.504		95*	(42-92)			0.532	ug/L 04/26/2010
	BMSD	0.471		88		7	(< 30)	0.538	ug/L 04/26/2010
2-Methylnaphthalene	BMS (0.0330) U	.445		84	(45-89)			0.532	ug/L 04/26/2010
	BMSD	0.435		81		2	(< 30)	0.538	ug/L 04/26/2010
Acenaphthene	BMS (0.0330) U	.522		98*	(45-93)			0.532	ug/L 04/26/2010
	BMSD	0.472		88		10	(< 30)	0.538	ug/L 04/26/2010
Acenaphthylene	BMS (0.0330) U	.53		100	(50-101)			0.532	ug/L 04/26/2010
	BMSD	0.490		91		8	(< 30)	0.538	ug/L 04/26/2010
Anthracene	BMS (0.0330) U	.584		110*	(55-105)			0.532	ug/L 04/26/2010
	BMSD	0.529		98		10	(< 30)	0.538	ug/L 04/26/2010
Benzo(a)Anthracene	BMS (0.0330) U	.561		106	(55-120)			0.532	ug/L 04/26/2010
	BMSD	0.520		97		8	(< 30)	0.538	ug/L 04/26/2010
Benzo[a]pyrene	BMS (0.0330) U	.491		92	(57-110)			0.532	ug/L 04/26/2010
	BMSD	0.451		84		9	(< 30)	0.538	ug/L 04/26/2010
Benzo[b]Fluoranthene	BMS (0.0330) U	.589		111	(45-120)			0.532	ug/L 04/26/2010
	BMSD	0.535		100		10	(< 30)	0.538	ug/L 04/26/2010
Benzo[g,h,i]perylene	BMS (0.0330) U	.495		93	(49-116)			0.532	ug/L 04/26/2010
	BMSD	0.454		85		9	(< 30)	0.538	ug/L 04/26/2010
Benzo[k]fluoranthene	BMS (0.0330) U	.544		102	(56-112)			0.532	ug/L 04/26/2010
	BMSD	0.489		91		11	(< 30)	0.538	ug/L 04/26/2010
Chrysene	BMS (0.0330) U	.615		116*	(56-109)			0.532	ug/L 04/26/2010
	BMSD	0.565		105		9	(< 30)	0.538	ug/L 04/26/2010
Dibenzo[a,h]anthracene	BMS (0.0330) U	.538		101	(54-113)			0.532	ug/L 04/26/2010
	BMSD	0.501		93		7	(< 30)	0.538	ug/L 04/26/2010
Fluoranthene	BMS (0.0330) U	.571		107	(58-109)			0.532	ug/L 04/26/2010
	BMSD	0.544		101		5	(< 30)	0.538	ug/L 04/26/2010
Fluorene	BMS (0.0330) U	.553		104*	(50-98)			0.532	ug/L 04/26/2010
	BMSD	0.495		92		11	(< 30)	0.538	ug/L 04/26/2010
Indeno[1,2,3-c,d] pyrene	BMS (0.0330) U	.512		96	(55-111)			0.532	ug/L 04/26/2010
	BMSD	0.468		87		9	(< 30)	0.538	ug/L 04/26/2010
Naphthalene	BMS (0.0682) U	.426		80	(44-89)			0.532	ug/L 04/26/2010
	BMSD	0.415		77		3	(< 30)	0.538	ug/L 04/26/2010
Phenanthrene	BMS (0.0330) U	.601		113*	(50-104)			0.532	ug/L 04/26/2010
	BMSD	0.549		102		9	(< 30)	0.538	ug/L 04/26/2010
Pyrene	BMS (0.0330) U	.559		105	(56-105)			0.532	ug/L 04/26/2010
	BMSD	0.528		98		6	(< 30)	0.538	ug/L 04/26/2010
Surrogates									
Terphenyl-d14 <surr>	BMS	.531		100	(50-126)				04/26/2010
	BMSD	0.505		94		5			04/26/2010



SGS Ref.# 1101584002 Billable Matrix Spike
1101584003 Billable Matrix Spike Dup.

Printed Date/Time 04/30/2010 10:42
Prep Batch XXX22498
Method 3520 Liquid/Liquid Ext for 827/
Date 04/16/2010

Original 1101584001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Polynuclear Aromatics GC/MS

Batch XMS5373
Method 8270D SIMS
Instrument HP 6890/5973 MS SVQA



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SGS Environmental Services Inc.

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CLIENT: TEC INC.					SGS Reference #:										page <u>1</u> of <u>5</u>					
CONTACT: Rick Adkisson					PHONE NO: 808.528.1445															
PROJECT: 3354-003					SITE/PWSID#: Red Hill BFSF															
REPORTS TO: Rick Adkisson					email: rkadkisson@tecinc.com															
					cc: wmcwhitman@tecinc.com															
INVOICE TO: TEC INC					QUOTE #:															
					P.O. NUMBER:															
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	#	Preserv.	Used	HCL	HCl	HNO ₃										REMARKS
000A-01	RHMW2254-WG19	4/13/2010	1105	Water	21		X		X		X									3x Volume sent in 3 coolers
④A-K	RHMW03-WG19	4/13/2010	1455	Water	7		X		X		X									
⑤A-KG	RHMW02-WG19	4/13/2010	1610	Water	7		X		X		X									
⑥A-KG	RHMWA01-WG19	4/13/2010	1205	Water	7		X		X		X									
⑦A-KG	RHMW01-WG19	4/13/2010	1840	Water	7		X		X		X									
⑧A-KG	RHMW05-WG19	4/13/2010	1320	Water	7		X		X		X									
⑨A-C	TB01-WG19		0805	Water	3		X		X											
Collected/Relinquished By: (1)		Date	Time	Received By:		Shipping Carrier:					Samples Received Cold? YES NO									
<i>[Signature]</i>		4/14/10	1200								Temperature °C: 0.4 360									
Relinquished By: (2)		Date	Time	Received By:		Shipping Ticket No:					Chain of Custody Seal: (Circle)									
											INTACT <input checked="" type="radio"/> BROKEN <input type="radio"/> ABSENT <input type="radio"/>									
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and-or Special Instructions:														
						See Contract														
Relinquished By: (4)		Date	Time	Received For Laboratory By:																
		4/15/10	1110	<i>[Signature]</i>																

- 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
- 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
- 255 Sand Island Access Rd., Unit 1B Honolulu, HI 96819 Tel: (808) 224-6217 Fax: (808) 845-2287

- 151 James Drive West St Rose, LA 70087 Tel: (504) 469-6401 Fax: (504) 463-3304
- 1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761
- 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557



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SGS Environmental Services Inc.

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CLIENT: TEC INC.					SGS Reference #:										page <u>4</u> of <u>5</u>					
CONTACT: Rick Adkisson					PHONE NO: 808.528.1445															
PROJECT: 3354-003					SITE/PWSID#: Red Hill BFSF															
REPORTS TO: Rick Adkisson					email: rkadkisson@tecinc.com															
					cc: wmcwhitman@tecinc.com															
INVOICE TO: TEC INC					QUOTE #:															
					P.O. NUMBER:															
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	#	Preserv.	Used	HCL	HCl	HNO ₃										REMARKS
① H-K	RHMW2254-WG19	4/13/2010	1105	Water	4			X		X										3x Volume sent in 3 coolers
② H-K	RHMW05-WG19	4/13/2010	1320	Water	4			X		X										
Collected/Relinquished By: (1)		Date	Time	Received By:		Shipping Carrier:					Samples Received Cold? YES NO									
<i>Will White</i>		4/14/10	1200	<i>[Signature]</i>							Temperature °C: 0.5 300									
Relinquished By: (2)		Date	Time	Received By:		Special Deliverable Requirements:					Chain of Custody Seal: (Circle)									
				<i>[Signature]</i>		See Contract					INTACT BROKEN ABSENT									
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and-or Special Instructions:														
						See Contract														
Relinquished By: (4)		Date	Time	Received For Laboratory By:																
<i>[Signature]</i>		4/15/10	11:10	<i>Amy [Signature]</i>																

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3

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CLIENT: TEC INC.					SGS Reference #:										page 3 of 5							
CONTACT: Rick Adkisson					PHONE NO: 808.528.1445																	
PROJECT: 3354-003					SITE/PWSID#: Red Hill BFSF																	
REPORTS TO: Rick Adkisson					email: rkadkisson@tecinc.com																	
					cc: wmcwhitman@tecinc.com																	
INVOICE TO: TEC INC					QUOTE #:																	
					P.O. NUMBER:																	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	#	C O N T A I N E R S	Preserv. Used SAMPLE TYPE C = COMP G = GRAB	HCL	HCL	HNO ₃											REMARKS	
234K	RHMW2254-WG19	4/13/2010	1105	Water	8				X		X											3x Volume sent in 3 coolers
Collected/Relinquished By: (1)		Date	Time	Received By:		Shipping Carrier:					Samples Received Cold? YES NO											
<i>[Signature]</i>		4/14/10	1200	<i>[Signature]</i>							Temperature °C: 13 3rd											
Relinquished By: (2)		Date	Time	Received By:		Special Deliverable Requirements:					Chain of Custody Seal: (Circle)											
				<i>[Signature]</i>		See Contract					INTACT BROKEN ABSENT											
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and-or Special Instructions:																
						See Contract																
Relinquished By: (4)		Date	Time	Received For Laboratory By:																		
		4/15/10	11:10	<i>[Signature]</i>																		

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- 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

SGS Environmental

CUSTODY SEAL

Signature: *Will White*

Date/Time: 4/14/10 / 1200

SGS Environmental

CUSTODY SEAL

Signature: *Will White*

Date/Time: 4/14/10 / 1200

SGS Environmental

CUSTODY SEAL

Signature: *Will White*

Date/Time: ^{h.w} 4/14/10 / 1200

SGS Environmental

CUSTODY SEAL

Signature: *Will White*

Date/Time: 4/14/10 / 1200

SGS Environmental CUSTODY SEAL
Signature: [Signature] Date/Time: 4/14/10/1200

SGS Environmental CUSTODY SEAL
Signature: [Signature] Date/Time: 4/14/10/1200

SGS Environmental CUSTODY SEAL
Signature: [Signature] Date/Time: 4/14/10/1200

SGS Environmental CUSTODY SEAL
Signature: [Signature] Date/Time: 4/14/10/1200

SGS Environmental CUSTODY SEAL
Signature: [Signature] Date/Time: 4/14/10/1200

SGS Environmental CUSTODY SEAL
Signature: [Signature] Date/Time: 4/14/10/1200

From: Origin ID: HIKA (808) 528-1445
 BILL WHITMAN
 TEC INC.
 1001 BISHOP STREET, ASB TOWER
 SUITE 1400
 HONOLULU, HI 96813

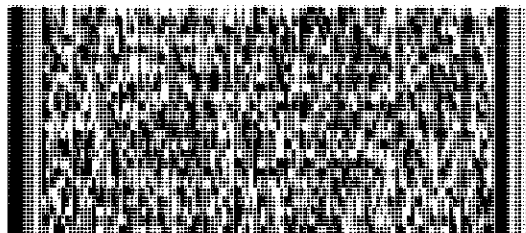


J18181882228224

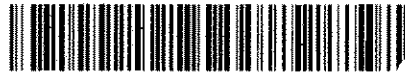
Ship Date: 14APR10
 ActWgt: 30.0 LB
 CAD: 1774997/INET3010
 Dims: 24 X 14 X 14 IN

SHIP TO: (907) 562-2343 **BILL THIRD PARTY**
SAMPLE RECEIVING
SGS Environmental Services
200 W POTTER DR

ANCHORAGE, AK 99518



Delivery Address Bar Code



Ref # P# 3354 003
 Invoice #
 PO #
 Dept #

1101584



MPS# 3 of 5 **THU - 15 APR AM**
 0263 7934 4724 7400 **PRIORITY OVERNIGHT**

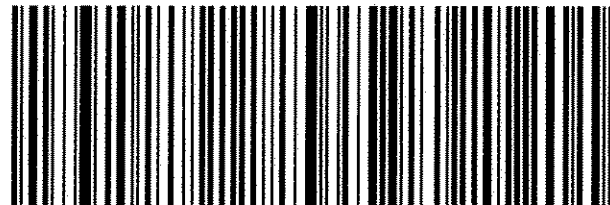
Mstr# 7934 4724 7271 0201

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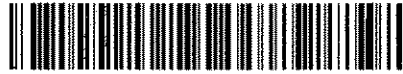
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BILL WHITMAN
TEC INC.
1001 BISHOP STREET, ASB TOWER
SUITE 1400
HONOLULU, HI 96813



Ship Date: 14APR10
ActWgt: 30.0 LB
CAD: 1774997/NET3010
Dims: 24 X 14 X 14 IN

Delivery Address Bar Code



Ref # P# 3354 003
Invoice #
PO #
Dept #

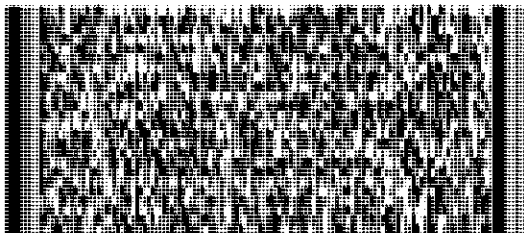
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200 W POTTER DR

ANCHORAGE, AK 99518



1 of 5

THU - 15 APR AM

TRK# 7934 4724 7271
0201

PRIORITY OVERNIGHT

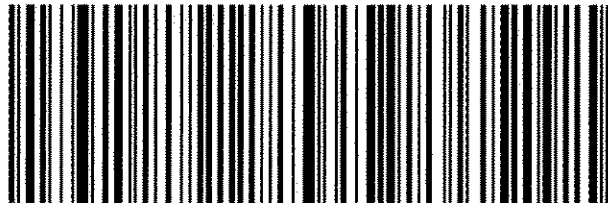
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From: Origin ID: HKA (808) 528-1445
BILL WHITMAN
TEC INC.
1001 BISHOP STREET, ASB TOWER
SUITE 1400
HONOLULU, HI 96813



J1818182228224

Ship Date: 14APR10
ActWgt: 30.0 LB
CAD: 1774997/INET3010
Dims: 24 X 14 X 14 IN

Delivery Address Bar Code



Ref # P# 3354 003
Invoice #
PO #
Dept #

1101584



SHIP TO: (907) 562-2343 BILL THIRD PARTY

SAMPLE RECEIVING
SGS Environmental Services
200 W POTTER DR

ANCHORAGE, AK 99518

2 of 5

THU - 15 APR AM

MPS# 7934 4724 7320
0263

PRIORITY OVERNIGHT

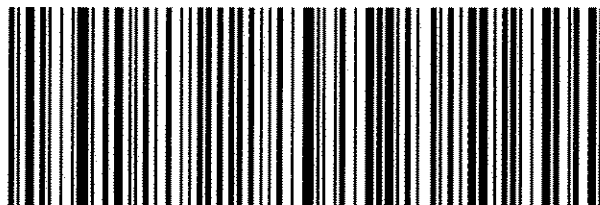
Mstr# 7934 4724 7271 0201

99518

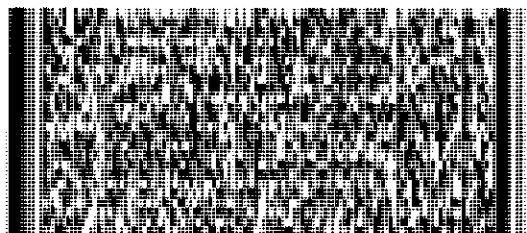
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585C1DBF2/FE#



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From: Origin ID: HIKA (808) 528-1445
BILL WHITMAN
TEC INC.
1001 BISHOP STREET, ASB TOWER
SUITE 1400
HONOLULU, HI 96813



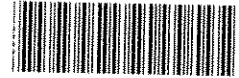
Ship Date: 14APR10
ActWgt: 30.0 LB
CAD: 1774997/INET3010
Dims: 24 X 14 X 14 IN

Delivery Address Bar Code



Ref # P# 3354 003
Invoice #
PO #
Dept #

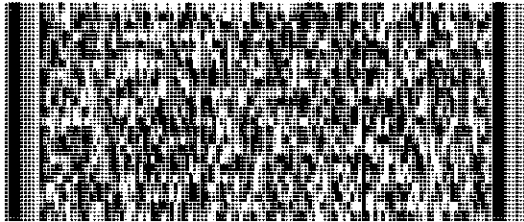
1101584



SHIP TO: (907) 562-2343 BILL THIRD PARTY

SAMPLE RECEIVING
SGS Environmental Services
200 W POTTER DR

ANCHORAGE, AK 99518



5 of 5

THU - 15 APR AM

MPS# 7934 4724 7514
0263

PRIORITY OVERNIGHT

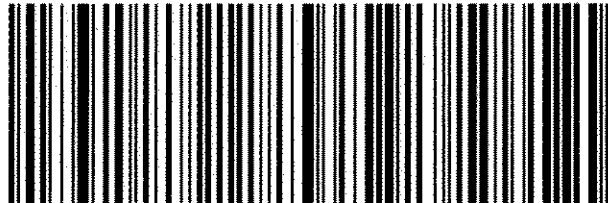
Msb# 7934 4724 7271 0201

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506C41RFP25FE8

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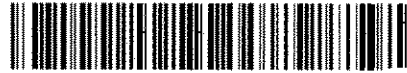
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TEC INC.
1001 BISHOP STREET, ASB TOWER
SUITE 1400
HONOLULU, HI 96813



Ship Date: 14APR10
ActWgt: 30.0 LB
CAD: 1774997/NET3010
Dims: 24 X 14 X 14 IN

Delivery Address Bar Code



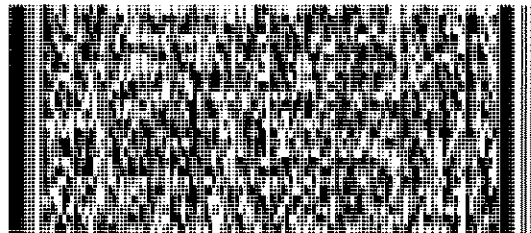
Ref # P# 3354 003
Invoice #
PO #
Dept #

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SHIP TO: (907) 562-2343 BILL THIRD PARTY
SAMPLE RECEIVING
SGS Environmental Services
200 W POTTER DR

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THU - 15 APR AM
PRIORITY OVERNIGHT

MPS# 7934 4724 7455
0263

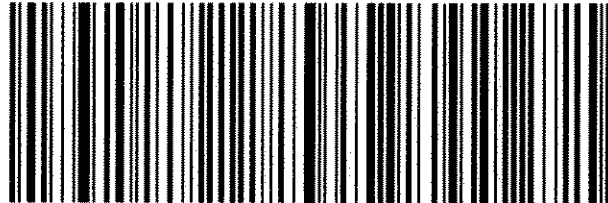
Mstr# 7934 4724 7271 0201

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