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INTERIM SITE ASSESSMENT FOR TRUCK FILL STAND WITH TRANSMITTAL LETTER NAS KEY WEST FL

07/20/2010

TETRA TECH

TETRA TECH

AIK-10-0137

July 20, 2010

Project Number 01294 *via U.S. Mail*

Beverly Washington
Building 135 Ajax Street
Naval Air Station
Jacksonville, FL 32212-0030

Reference: CLEAN Contract No. N62467-04-D-0055
Contract Task Order No. 0105

Subject: Interim Site Assessment for Truck Fill Stand, Rev. 0, Naval Air Station, Key West, Florida

Dear Ms. Washington:

I have enclosed a "Living CD" containing the PDF file for the Interim Site Assessment for Truck Fill Stand, Rev. 0, Naval Air Station, Key West, Florida. The file is being sent to you and NAS Key West personnel via FedEx to meet TtNUS's contractual obligation under CTO 0105. I plan to distribute a copy of this document to the Florida Department of Environmental Protection after receiving any comments from you (or NAS Key West).

Please call me at (803) 641-4943, if you have any questions regarding the enclosed document.

Sincerely,

C. M. Bryan
Project Manager

CMB:spc

c: Ms. Debra M. Humbert (Letter Only)
Mr. R. Courtright, NAS Key West (Hard Copy/CD)
Mr. E. Barham, NAS Key West (Letter Only)
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Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-04-D-0055

Rev. 0
07/20/10

Interim Site Assessment

For

Truck Fill Stand

Naval Air Station Key West
Key West, Florida

Contract Task Order 0105

July 2010

NAVFAC
Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, Florida 32212-0030

TETRA TECH NUS, Inc.

Rev. 0
07/20/10

INTERIM SITE ASSESSMENT
FOR
TRUCK FILL STAND

NAVAL AIR STATION
KEY WEST, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, FL 32212-0030

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CONTRACT NUMBER N62467-04-D-0055
CONTRACT TASK ORDER 0105

JULY 2010

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ACRONYMS/ABBREVIATIONS

AFVR	Aggressive Fluid Vapor Recovery
AST	Above-ground storage tank
BB&L	Blasland, Bouck, & Lee, Inc.
BCTF	Boca Chica Tank Farm
bls	Below land surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
CAP	Contamination Assessment Plan
CLEAN	Comprehensive Long-Term Environmental Action, Navy
COC	Contaminants of Concern
CTO	Contract Task Order
DPT	Direct-push technology
EPA	United States Environmental Protection Agency
F.A.C.	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FOL	Field Operations Leader
GCTL	Groundwater Cleanup Target Level
IRA	Initial Removal Action
JP	Jet Propellant
µg/L	Microgram per liter
MNA	Monitored natural attenuation
MTBE	Methyl-tertiary butyl ether
MW	Monitoring well
NASKW	Naval Air Station Key West
NAVFAC SE	Naval Facilities Engineering Command, Southeast
PAH	Polynuclear aromatic hydrocarbon
PID	Photoionization detector
POL	Petroleum, Oil, and Lubricants
PPL	Priority Pollutant List
SAR	Site Assessment Report
SB	Soil boring
SCTL	Soil Cleanup Target Level
SOP	Standard Operating Procedure
SQAG	Sediment Quality Assessment Guidelines
SSAR	Supplemental Site Assessment Report
SWL	Static water level

ACRONYMS/ABBREVIATIONS (CONTINUED)

TFS	Truck Fill Stand
TPH	Total petroleum hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
VOC	Volatile organic compound

1.0 INTRODUCTION

Tetra Tech NUS, Inc. (TtNUS) was contracted by the Department of the Navy, Naval Facilities Engineering Command, Southeast (NAVFAC SE) to perform site assessment sampling at Building A-902 Truck Fill Stand (TFS) located at Naval Air Station (NAS) Key West, Florida. This Interim Site Assessment Report (SAR) presents analytical results from samples collected during the site investigation, which was performed between June 2009 and March 2010 (June, October, November, and December 2009, as well as March 2010). This report was prepared under the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055, Contract Task Order (CTO) number 0105.

1.1 SITE DESCRIPTION AND BACKGROUND INFORMATION

1.1.1 Site Location and Conditions

NAS Key West (NASKW) is located in southern Monroe County, Florida, approximately 150 miles southwest of Miami. The TFS is at NASKW, on Boca Chica Key, Florida as shown on Figure 1-1. The TFS is an active facility used to fill tanker trucks for refueling aircraft. Fuel from the Boca Chica Tank Farm (BCTF), approximately 4,000 feet to the southwest of the TFS, is transmitted to the southwest portion of the TFS via twin 6-inch diameter steel underground pipelines. Fuel is pumped and transferred at the fueling area to standard over-the-road tanker trucks. Trucks routinely leave and return to the site for fueling missions and related airfield operations. This site is also referred to as Building A-902 in reference to the former operations building that was on the southeast side of this facility.

The TFS, including former Building A-902, dates back to the 1940s and was part of the original NASKW infrastructure. Building A-902 was the original Administration Building for NASKW. The layout of the site has changed since its use as a fueling point beginning in 1945. Documented environmental management activities began in the mid-1970s with the reporting of tank removals, implementation of numbering systems, and tank replacements. No other documented uses of the site exist.

The land at the TFS is generally flat and is mostly covered with asphalt and concrete pavement. The site is not paved at the northern and western areas. Wetland areas lie immediately east and northeast of the site.

1.2 SITE HISTORY

Several spills and cleanup actions have been documented at the TFS. A 1,000-gallon underground storage tank (UST), designated Tank A-935 (also known as A-902B), used for storing oily waste water from the jet fuel filter system, was removed from the site in 1995. One 250-gallon aboveground storage

tank (AST), A-935-R, used for the same purpose, remains on site (Blasland, Bouck, & Lee, Inc. (BBL), 2001a).

A SAR for Building A-902 was submitted to the Florida Department of Environmental Protection (FDEP) by NAVFAC EFD SOUTH in April 1999 (TtNUS, 1999). The SAR indicated that site soil and groundwater had been contaminated by petroleum hydrocarbons, presumably from tanker truck spills in the past. The UST closure report for Tank A-935 indicated that the tank was in excellent condition; however, free product was discovered in the underlying groundwater during tank excavation (Omega Environmental Services, Inc. (OES), 1995). The SAR recommended an Interim Remedial Action (IRA) followed by a supplemental assessment. FDEP approved the SAR on May 10, 1999.

In late January 2000, less than 25 gallons of fuel were inadvertently released into a catch basin that was under repair. As a consequence, nearby soil was contaminated. The Navy excavated the contaminated soil and collected soil samples for organic vapor analysis to confirm that all affected soil had been removed. In late February or early March 2000, approximately 100 gallons of fuel were released in the same area. However, the catch basin had been repaired and all fuel was reportedly contained within the catch basin and later pumped out (BBL, 2001a).

In March 2000, construction workers at the new Petroleum and Oils Laboratory (POL) building adjacent to the Truck Fill Stand discovered discolored soil with a strong petroleum odor in trenches excavated for the building footers. Two monitoring wells (TFS-MW-09 and TFS-MW-10) were installed on the north and south sides of the building and sampled for petroleum hydrocarbons. Benzene was found in groundwater samples from both wells at concentrations that exceeded the groundwater cleanup target level (GCTL) of 1 microgram per liter (µg/L), as specified in Chapter 62-777, Florida Administrative Code (F.A.C.), Table I. BBL concluded that the plume was not adequately defined in the area of the new POL building and further assessment was necessary. In addition, BBL personnel measuring groundwater levels in wells at the Truck Fill Stand on March 29, 2000 found 1.92 inches of free product in TFS-MW-01 (BBL, 2001a).

In April 2000, approximately 3,500 gallons of jet fuel (JP-5) were spilled to the west of the Truck Fill Stand, reportedly due to contractor error during maintenance of the fuel filters. Excessively contaminated soil was excavated and free product pumped from the excavation (BBL, 2001a).

Because these events may have changed the findings of the SAR, the Navy contracted BBL to conduct a supplemental site assessment to define the extent of petroleum hydrocarbon contamination. The Supplemental Site Assessment Report (SSAR) for the supplemental investigation concluded that dissolved petroleum hydrocarbons in excess of their GCTLs were in the groundwater in the vicinity of the new POL building, around the Truck Fill Stand, and AST. Concentrations of petroleum hydrocarbons in sediments and surface water in the adjacent wetland also exceeded Sediment Quality Assessment

Guidelines (SQAGs) and surface water cleanup target levels. Free product was detected in a few monitoring wells on site. The SSAR concluded that remedial measures should be initiated (BBL, 2001a).

Subsequently, a treatability study was planned for Building A-902, the Truck Fill Stand site, to include aggressive fluid vapor recovery (AFVR). TtNUS was tasked with performing the treatability study, and collected groundwater samples at the Truck Fill Stand in May 2003 to establish baseline conditions at the site and aid in development of a Treatability Study Work Plan, as described in the Baseline and Monitored Natural Attenuation (MNA) Sampling Work Plan (TtNUS, 2003a). Compared with supplemental site assessment results, May 2003 VOC and PAH concentrations had decreased in the area west of the Truck Fill Stand, but continued to exceed GCTLs. Approximately 12 inches of free product were measured in monitoring well TFS-MW-04 in October 2000 (BBL, 2001a). However, only a sheen was present in May 2003. Therefore, the NAS Key West Partnering Team determined in August 2003 that AFVR was no longer an appropriate remedial alternative for TFS-MW-04. Since no measurable free product was present at the Truck Fill Stand in May 2003 and contamination appeared to be substantially reduced through attenuation, TtNUS recommended that quarterly monitoring be implemented in the area around the Truck Fill Stand to further assess the extent to which natural attenuation was occurring (TtNUS, 2003b).

The four wells surrounding the POL building were also sampled in May 2003. Lead and acenaphthene were the only chemicals detected in these monitoring wells, and no exceedances of GCTLs were observed. However, previous sampling in March and August 2000 had detected benzene above the GCTL in wells TFS-MW-09 and -10. Three wells were installed in the area where workers noticed discolored soil with a strong petroleum odor during construction of the new POL building in 2000 (BBL, 2001a). Therefore, TtNUS recommended in August 2003 that a site assessment be performed in the area surrounding the POL building to determine if previously detected contamination remained at the site, had migrated from the site, or if the contamination had attenuated naturally (TtNUS, 2003b).

TtNUS sampled monitoring wells surrounding the Truck Fill Stand again in August 2003, collecting a sample at high tide and one at low tide to gain more information concerning tidal influence on dissolved contaminant concentrations in groundwater. These results are discussed in the August 2003 MNA Report for Truck Fill Stand, Valve Pit No. 8, and Boca Chica Tank Farm (TtNUS, 2003c). MNA sampling was conducted from May 2003 to June 2009. Results of the MNA program at the TFS-South area indicated continued exceedances of GCTLs for Benzene, Naphthalene, and total petroleum hydrocarbons (TPH) in monitoring well TFS-MW-04, in the southwest portion of the site.

In August 2008, during the monitoring well abandonment task at various sites at NAS Key West, TtNUS conducted a site reconnaissance for contamination assessment plan (CAP) planning activities. A utility clearance was also conducted at the site. Two monitoring wells located on the southern portion of the TFS (TFS-P-2 and TFS-P-3) were abandoned. In addition, deep monitoring well TFS-MW-8, previously

reported as missing, was located. This well was refurbished and redeveloped for future groundwater sampling.

During the site reconnaissance, history of the site was discussed with personnel from Hawthorne, the current operator of the TFS facility. Information provided by some of the personnel indicated that the current location of the POL building and the parking area north of the POL building were not paved until the 1970s. Tanker trucks were often parked within this unpaved area in preparation for staging and deployment. In addition, it was reported that an AST was located north of the current POL building. These areas were noted and would be included in the CAP as potential source contaminant areas. The pipeline from the BCTF to the TFS and a sewer repair project were also evaluated during the site reconnaissance as preferential pathways for contaminant migration (if contaminants are detected in the vicinities of these areas).

DRAWN BY MJN	DATE 07/16/2010	SITE LOCATION MAP INTERIM SITE ASSESSMENT REPORT NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO. CTO-0105
CHECKED BY DGH	DATE 07/16/2010		APPROVED BY CMB / DATE 07/16/2010
COST/SCHED-AREA			APPROVED BY ____ / DATE ____
SCALE AS NOTED			FIGURE 1-1 / REV. 1

2.0 SITE ASSESSMENT METHODOLOGY

2.1 QUALITY ASSURANCE

The site assessment was conducted in accordance with the Contamination Assessment Plan for the Truck Fill Stand (TtNUS, 2009). Standard Operating Procedures (SOPs) prescribed by the FDEP (FDEP, 2002) were followed. Organic vapor measurements were made with a MiniRae photoionization detector (PID). Prior to each day's activities, all equipment was field calibrated in accordance with manufacturers' directions. Equipment used to advance the soil borings, and collect soil or groundwater samples was decontaminated in accordance with FDEP SOP FC 1000.

Soil and groundwater screening samples were collected in pre-preserved containers obtained from Accutest Laboratories. Soil and groundwater screening samples were collected for VOCs, PAHs and TPH. Sampling activities were documented in e-data and site-specific field logbooks. Samples were transmitted under chain-of-custody protocol to the laboratory.

2.2 SOIL BORING PROGRAM

The soil screening during this investigation was conducted at the Truck Fill Stand site to evaluate the presence of petroleum impacted soils at the site. A total of 298 soil borings were installed using Direct-Push Technology (DPT) during the event. Borings were initially placed on a twenty-five foot grid over the entire TFS site. Specific areas investigated were:

- The perimeter of the POL Building where free product was seen in building footing excavations;
- The northern area adjacent to the POL Building associated with the reported location of a former AST;
- The area south of POL Building (interconnection with existing impacted groundwater in the south area);
- The area south of the current TFS fueling and tanker parking area/containment area extending to the edge of the taxiway; and
- The area west of the TFS pumping area where fuel lines have been known to leak, including the current MNA area and extending beyond to the edge of the taxiway to the west.

Following evaluation of the screening results of these borings, additional locations were selected by the decision making team (consisting of the FOL, technical lead and project manager) in order to delineate the extent of the contaminant "hotspots" that were discovered. The borings were installed either step-in

to determine source area contamination, or step-out borings to investigate the extent of contamination. All soil borings were advanced below the water table in order to collect groundwater samples for headspace purge analysis methodology. Soil boring locations are shown on Figure 2-1.

The area comprising the secondary containment for tank truck fueling and parking was not included in the investigation. This area was excluded since penetration of the concrete and provisions for containment integrity were not within the scope of the investigation.

2.2.1 Soil Core Sampling

Soil borings for the site assessment were advanced using DPT. Fill material and oolitic limestone were encountered in the soil borings. Groundwater depth varied in the borings and was encountered from ground surface to approximately 1.5 feet below land surface (bls) during the event. The vadose zone was considered to be the interval above the saturated interval. However, due to the elevated water table across the site and fluctuations in the water table (creating a smear zone), true vadose zone soil was generally absent.

The site geologist logged the soil properties, including texture, color, and soil moisture, for each soil core and noted whether staining or odors were present. Since the soil borings were all at shallow depths, the lithology across the site did not vary significantly.

2.2.2 Soil Headspace Screening

Soil samples were collected from the 0-2 and 2-4 foot bls intervals at each location for headspace vapor screening in accordance with the procedures outlined in Section 62-770.200, F.A.C. At each location, one 16-ounce glass jar was half-filled with the soil sample from the interval, quickly sealed with aluminum foil, and labeled. The soil samples were allowed to equilibrate to ambient air temperature. The PID response to total headspace organic vapors was measured by inserting the PID probe through the foil sample cover and recording the highest instrument reading.

2.3 SOIL SAMPLING PROGRAM

Five soil samples were collected for laboratory analysis to confirm headspace screening results. The samples were analyzed for VOCs by SW-846 Method 8260, PAHs by SW-846 Method 8310, and TPH by the Florida Petroleum Residual Organics (FL-PRO) method. The samples were sent to Accutest Laboratories, Orlando, FL for analysis.

2.4 GROUNDWATER SAMPLING PROGRAM

Samples were collected from the nine MNA monitoring wells (TFS-MW-01, 02, 04, -05, -07, -08D, -11 -12 P-01), the four monitoring wells in the area of the original administration building (TFS-902C-MW-01, -02, -03, and -04), two monitoring wells located north and south of the POL building (TFS-MW-09 and -10) and two monitoring wells further north and east of the POL building (TFS-MW-13 and -14). The wells were sampled to establish a baseline and to evaluate groundwater quality in the shallow surficial aquifer in conjunction with assessment activities at the site. Locations of the monitoring wells are shown on Figure 2-2.

Groundwater screening samples were collected from each of the 298 borings for the headspace purge method. In addition, 60 groundwater samples were sent to a fixed-based laboratory (Accutest Laboratories, Orlando, Fl) for confirmation and compound-specific analysis. The samples were analyzed for volatile organic compounds (VOCs), PAHs and TPH. The groundwater samples were selected based on elevated color responses on the headspace purge method and/or elevated PID readings.

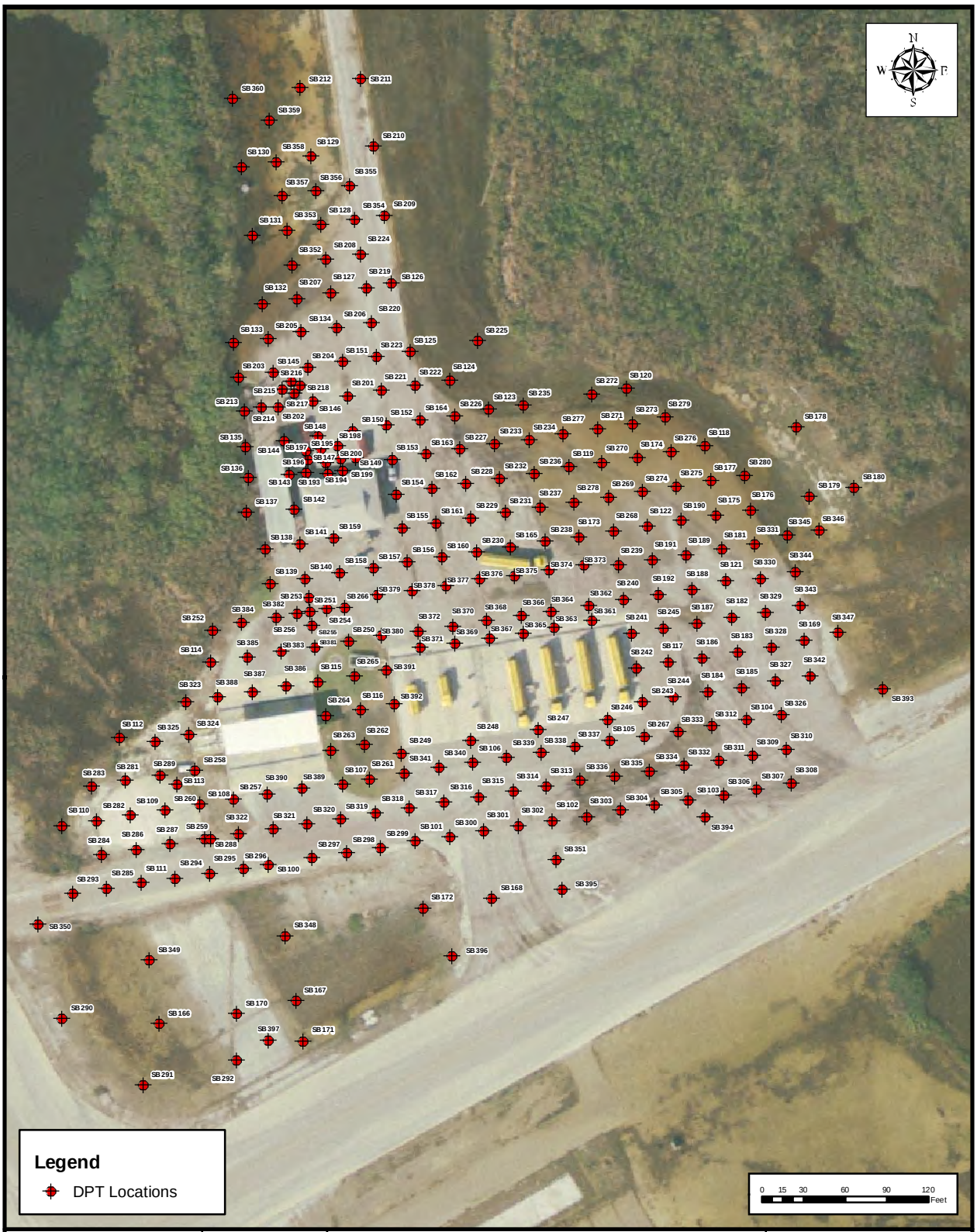
2.4.1 Monitoring Well Sampling

The monitoring well samples were collected using the low-flow quiescent purging and sampling method. New Teflon® tubing was installed in each well for groundwater sampling. Approximately three to five well volumes were removed from each well using a peristaltic pump and Teflon® tubing. Temperature, pH, specific conductance, dissolved oxygen, and turbidity were monitored while the wells were purged. The field measurements, well purge volumes, and depths to groundwater were recorded both during well purging and at the time of sample collection.

Groundwater samples were analyzed for VOCs (SW-846 Method 8260), polynuclear aromatic hydrocarbons (PAHs) (SW-846 Method 8310), TPH (FL-PRO), and lead and iron (SW-846 Method 6010B). The groundwater samples were placed on ice and shipped to Accutest laboratories in Orlando, Florida for analysis.

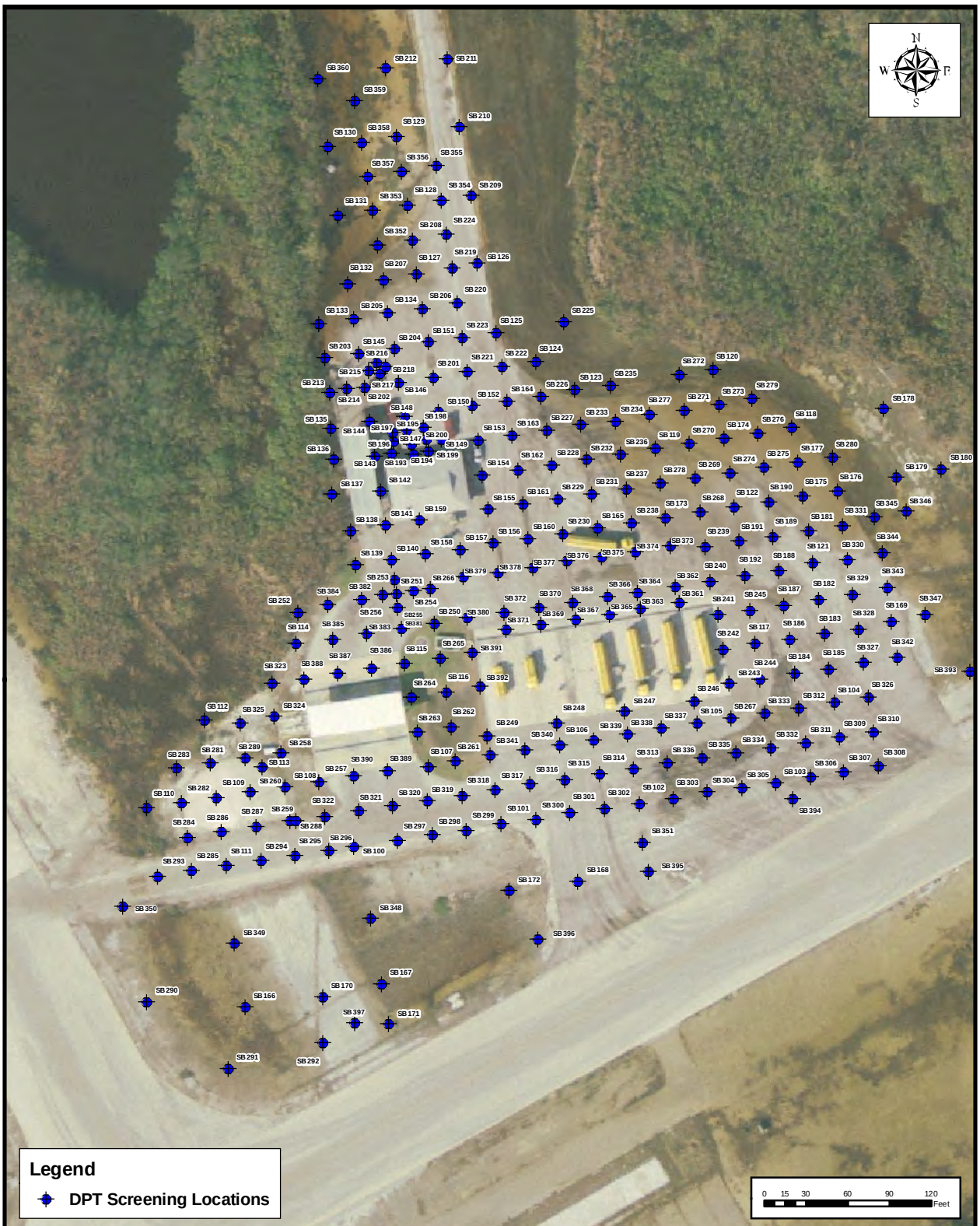
2.5 SURFACE WATER SAMPLING

Four surface water samples were collected to assess the possible movement of contaminants in sediments to surrounding wetland areas. Samples were collected from wetlands northwest of the POL building (KWTFS-SW-100), southeast of the POL building (KWTFS-SW-101), northwest of the MNA area (KWTFS-SW-102) and in the area along the eastern boundary of the site (KWTFS-SW-103). The samples were submitted to Accutest Laboratories for analysis of VOCs (SW-846 Method 8260), PAHs (SW-846 Method 8310), TPH (FL-PRO), and lead and iron (SW-846 Method 6010B). Figure 4-5 shows the sampling locations.



DRAWN BY: MJN	DATE: 07/02/2010	**SOIL BORING LOCATIONS** **INTERIM SITE ASSESSMENT REPORT** **TRUCK FILL STAND** **NAS KEY WEST** **KEY WEST, FLORIDA**	CONTRACT NO.: CTO-0105
CHECKED BY: DGH	DATE: 07/02/2010		APPROVED BY: CMB / DATE: 07/02/2010
COST/SCHED-AREA			APPROVED BY: ____ / DATE: ____
SCALE: AS NOTED			FIGURE: 2-1 / REV.: 1

DRAWN BY: MJN	DATE: 07/16/2010	MONITORING WELL LOCATIONS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO.: CTO-0105
CHECKED BY: DGH	DATE: 07/16/2010		APPROVED BY: CMB / DATE: 07/16/2010
COST/SCHED-AREA			APPROVED BY: ____ / DATE: ____
SCALE: AS NOTED			FIGURE: 2-2 / REV.: 1



DRAWN BY: MJN	DATE: 07/02/2010	DPT GROUNDWATER SCREENING LOCATIONS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO.: CTO-0105
CHECKED BY: DGH	DATE: 07/02/2010		APPROVED BY: CMB DATE: 07/02/2010
COST/SCHED-AREA			APPROVED BY: ____ DATE: ____
SCALE: AS NOTED			FIGURE: 2-3 REV.: 1

3.0 GEOLOGY AND HYDROGEOLOGY

Data collected during the site assessment were used to evaluate geologic and hydrogeologic conditions at the site that may influence the fate and transport of hydrocarbons released to the environment. Lithology and stratigraphy were described for the shallow surficial aquifer at the site. Aquifer properties evaluated as part of the site assessment included depth to groundwater/groundwater elevation and groundwater flow direction.

The Lower Keys, which are within the southern geomorphic division of Florida, were formed during the Pleistocene Era. The Lower Keys are known as the "Oolitic Keys," a reference to the Oolitic Member of the Miami Limestone. The Oolitic Member consists of variably sandy, fossiliferous limestone composed primarily of ooids. The Oolitic Member is divided into two lithofacies: an ooid calcarenite and an oomoldic-recrystalline facies. The Key Largo Limestone underlies the Miami Limestone. The Key Largo Limestone is a light-gray to light-yellow coralline limestone comprised of coral heads encased in a matrix of calcarenite. In the Key West area, the Miami Limestone is approximately 27 feet thick and the Key Largo limestone is more than 270 feet thick [Brown & Root Environmental (B&RE), 1997].

The surficial aquifer system in the Lower Keys is an unconfined, porous, highly permeable solution-riddled unit, as described above. Rainfall recharge seeps quickly into the ocean and saltwater intrusion is common. The water table ranges in depth from less than 1 foot to approximately 2.5 feet below mean sea level (msl) and fluctuates diurnally due to tidal effects. Water in the surficial aquifer is non-potable.

3.1 SITE STRATIGRAPHY

Interpretation of site lithology and stratigraphy was based on visual examination of soil cores collected from soil borings and from drill cuttings observed during the monitoring well installation.

The site surface is underlain by light-brown-to-beige-to-white, silty sand and oolitic limestone. Clay lenses, approximately 0.25 inch thick and 2.0-2.5 feet bls, were also found in a few of the borings. This lithology extends to at least 8 feet bls, which was the maximum depth drilled during the investigation. Due to the homogeneity of the subsurface, no lithologic cross-section was constructed.

3.2 SITE HYDROGEOLOGY

Hydrogeologic data were collected during the site assessment to evaluate movement of groundwater in the shallow surficial aquifer at the site. Depth to groundwater and groundwater elevation were used to determine the groundwater flow direction and water table gradient at the site.

3.2.1 SWL and Groundwater Elevations

Static water level (SWL) data were collected from site monitoring wells during the gauging event in January 2010. Groundwater elevation measurements in shallow monitoring wells ranged from 1.87 to 2.41 feet. The SWL data and the elevations from the well top of casing (TOC) survey were used to determine a groundwater elevation at each well for the gauging event (Table 3-1).

3.2.2 Groundwater Flow Direction

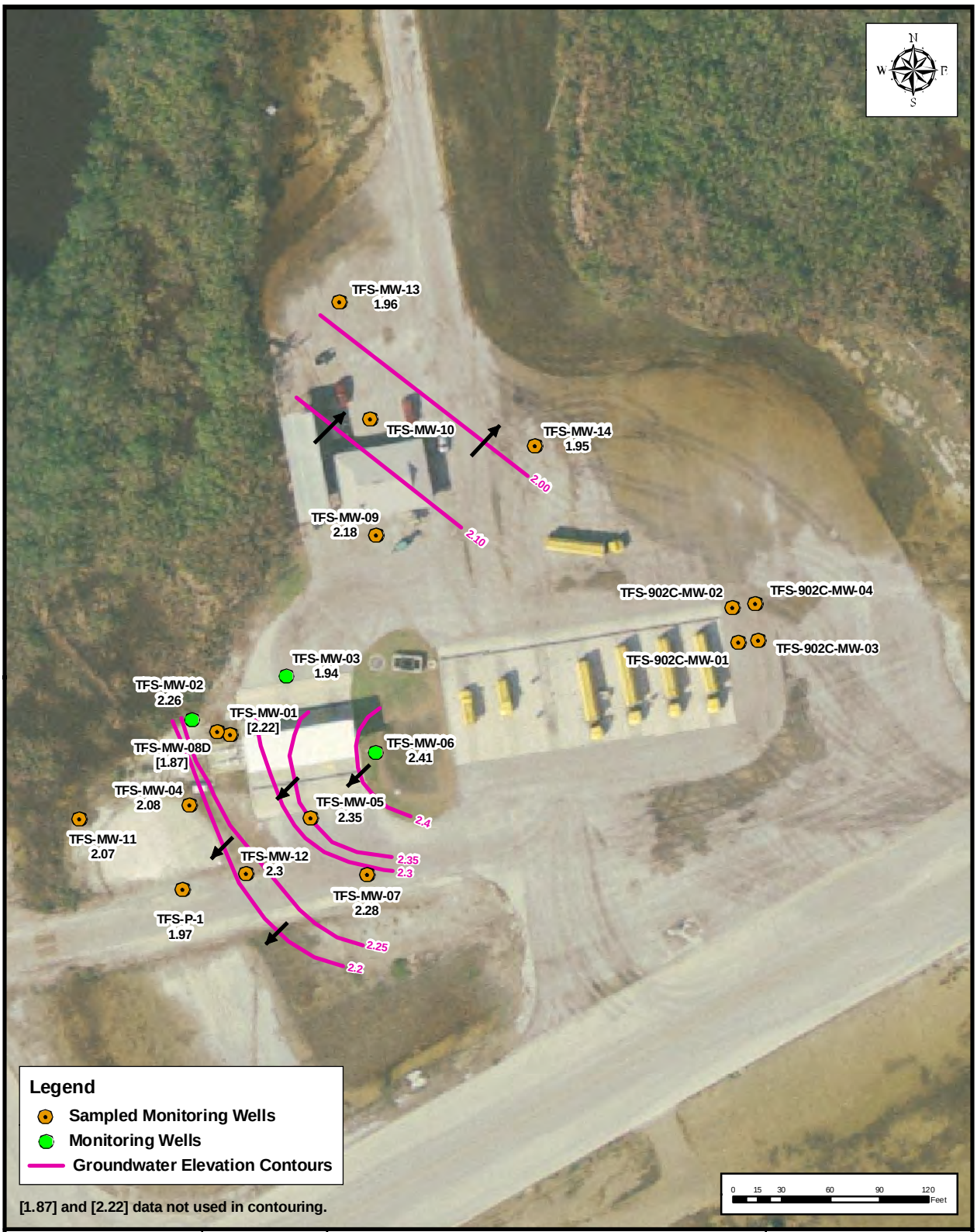
To evaluate the direction of groundwater flow at the site, the groundwater elevations were plotted on a site map. Groundwater elevation isocontours were calculated from the plotted data. Groundwater flow direction is predicted to be perpendicular to the elevation isocontours. Interpretation of data from the January 2010 gauging event indicated a flow to the southwest in the vicinity of the MNA wells. A flow to the northeast was indicated in the area north of the POL building (Figure 3-1). This inconsistent pattern of groundwater movement is indicative of tidal influence on the surficial aquifer.

TABLE 3-1

**TOTAL DEPTHS, TOP OF CASING ELEVATIONS, AND WATER TABLE ELEVATIONS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA**

Well ID	Total Depth (ft below TOC)	Top of Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Groundwater Elevation (ft above msl)
TFS-MW-01	11.99	4.44	2.22	2.22
TFS-MW-02	11.97	3.09	0.83	2.26
TFS-MW-03	11.5	4.17	2.23	1.94
TFS-MW-04	11.97	2.63	0.55	2.08
TFS-MW-05	11.95	4.55	2.2	2.35
TFS-MW-06	11.94	4.21	1.8	2.41
TFS-MW-07	11.88	4.2	1.92	2.28
TFS-MW-08D	35	4.12	2.25	1.87
TFS-MW-09	12	3.05	0.87	2.18
TFS-MW-11	11.31	2.62	0.55	2.07
TFS-MW-12	11.28	3.8	1.5	2.3
TFS-MW-13	11	2.58	0.62	1.96
TFS-MW-14	11	2.49	0.54	1.95
TFS-P-1	11.37	3.48	1.51	1.97

TOC Elevations were surveyed by Donaldson, Garrett, and Associates in August 2003. Vertical datum is National Geodetic Vertical Datum of 1929 (NGVD 29). TOC for rebuilt TFS-MW-08D by TtNUS in November 2008.
msl - mean sea level
NM – Not Measured
NA – Not Applicable



DRAWN BY: MJN	DATE: 07/02/2010	GROUNDWATER ELEVATION INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO.: CTO-0105
CHECKED BY: DGH	DATE: 07/02/2010		APPROVED BY: CMB DATE: 07/02/2010
COST/SCHED-AREA			APPROVED BY: ____ DATE: ____
SCALE: AS NOTED			FIGURE: 3-1 REV.: 1

4.0 SITE ASSESSMENT RESULTS

4.1 FIELD SCREENING RESULTS

A total of 298 borings were completed at the TFS during this assessment. At each boring, soil samples were collected for field headspace analysis as previously discussed in section 2.2.2. Contamination was detected in 115 of the samples analyzed (Table 4-1). Of the 115 detections, 107 samples resulted in detections greater than 50 parts per million, which is considered excessively contaminated. However, due to the high water table and smear zone that extended close to ground surface, true vadose zone soil could not characterized on site. Elevated headspace results in the borings provided an indication of petroleum impacted groundwater. In each case the 0-2 ft interval and 2-4 ft interval was analyzed. The higher of the two results was used to create Figure 4-1, which summarizes the results visually.

4.2 SOIL ASSESSMENT RESULTS

4.2.1 DPT Soil Results

A DPT assessment was conducted to assess the subsurface soil at the site. A total of five (5) soil samples from the DPT borings were collected and shipped for laboratory analysis in accordance with FDEP SOP FS 3000. Figure 4-2 illustrates the DPT boring locations and the overall investigation grid. The borings were advanced approximately 2 feet below the water table, which was approximately 4 feet bls to determine the basic subsurface impact by COCs at the TFS site. Both groundwater and soil samples were collected at each boring for field screening. Each of the five collected soil samples was analyzed for PPL VOCs; including BTEX and methyl-tertiary butyl ether (MTBE), TPH, and PAHs.

Contaminants were detected in all soil samples analyzed with exception of soil boring SB-129. Soil boring SB-114 had detections of PAHs that exceeded SCTLs and soil boring SB108 had a detection of TPH that exceeded SCTLs. Table 4-2 presents a summary of the detected soil contaminants.

4.3 GROUNDWATER ASSESSMENT RESULTS

4.3.1 Monitoring Well Sampling Results

A baseline round of groundwater sampling was completed prior to the DPT investigation. A total of sixteen (16) monitoring wells were sampled at the TFS during October 2009. Routine groundwater monitoring is only performed in the southwest portion of the site (TFS-MW-01, TFS-MW-04, TFS-MW-05, TFS-MW-07 TFS-MW-11, TFS-MW-12, TFS-MW-8D and TFS-P-01) (TtNUS, 2009). Monitoring well TFS-MW-08D was surged and developed to remove approximately 10 feet of sediment and debris prior to sampling the TFS wells. Four wells in the vicinity of the POL building have not been sampled since May 2003. Therefore, baseline groundwater sampling was performed at the existing four TFS-North wells

adjacent to the POL building (TFS-MW-9, TFS-MW-10, TFS-MW-13, and TFS-MW-14). Baseline groundwater sampling was also performed at four existing wells on the east side of the site (TFS-902C-MW-01, TFS-902C-MW-02, TFS-902C-MW-03, and TFS-902C-MW-04). Figure 4-3 illustrates the monitoring well locations and corresponding laboratory results. Table 4-3 is a summary of the analytical results.

An oil-water interface probe was used to determine if free product was present at any groundwater monitoring wells. Free product was not encountered in any of the monitoring wells during this event. Each monitoring well was purged and sampled using low flow techniques per the FDEP SOP FS 2200. All monitoring well samples were analyzed for PPL VOCs; including BTEX and MTBE, TPH, and PAHs.

Of the eight routinely sampled monitoring wells, only monitoring well TFS-MW-04 had detections of contaminants that exceeded GCTLs during October 2009. Concentrations of benzene (36.8 µg/l), 1-methylnaphthalene (36.4 µg/l), naphthalene (58.5 µg/l) and TPH (10.8 mg/l) exceeded GCTLs.

The four monitoring wells sampled in the vicinity of the POL building only had one exceedance of GCTLs in monitoring well TFS-MW-10. A benzo(b)fluoranthene concentration of 0.07 µg/l exceeded its GCTL of 0.05 µg/l. No other detections were found within these four monitoring wells.

The four monitoring wells sampled on the east side of the site had detections of the PAH benzo(b)fluoranthene exceeding the GCTL (0.05 µg/l) in monitoring wells TFS-902C-MW-02 (0.07 µg/l) and TFS-902C-MW-04 (0.055 µg/l). No other contaminant detections were found in these four monitoring wells.

4.3.2 DPT Groundwater Results

A total of sixty (60) DPT groundwater samples were collected in accordance with FDEP SOP FS 2200 and shipped for laboratory analysis. The sample locations were chosen based on field screening results and baseline monitoring well data. Figure 4-4 illustrates the DPT groundwater sample locations and analytical results. Table 4-3.1 summarizes the analytical results from the DPT groundwater samples. Each of the 60 groundwater samples was analyzed for PPL VOCs; including BTEX and MTBE, TPH, and PAHs.

Eight (8) groundwater samples analyzed had laboratory detections of contaminants that exceeded GCTLs. Soil boring KWTFS-SB147 had a detection of benzene (10.7 µg/L) that exceeded the GCTL of 1 µg/L. Soil boring KWTFS-SB147 was the only sample from the DPT groundwater samples that had an exceedance of a VOC. The only TPH exceedance of the GCTL (5 mg/kg) in the DPT groundwater samples was found in soil boring KWTFS-SB114 (16 mg/kg).

There were numerous detections of PAHs found in the samples analyzed; however, only six (6) groundwater samples had detections of contaminants exceeding PAH GCTLs (KWTFS-SB108, KWTFS-SB134, KWTFS-SB151, KWTFS-SB215 and KWTFS-SB251).

4.4 SURFACE WATER ASSESSMENT RESULTS

4.4.1 Surface Water Results

Surface water samples were collected in November 2009 from four locations in accordance with FDEP SOP FS 2100. These samples were collected to assess current concentrations of contaminants within the wetlands adjacent to the TFS on both the east and west sides. All samples collected were analyzed in the laboratory for PPL VOCs, including BTEX and MTBE, TPH, and PAHs. Figure 4-4 illustrates the locations of the surface water samples and analytical results. Table 4-5 provides a summary of the analytical results.

There were no laboratory contaminant detections in surface water samples KWTFS-SW-100 and KWTFS-SW103. Surface water samples from KWTFS-SW101 and KWTFS-SW102 had detections of PAHs that exceeded their respective GCTLs. There were also detections of TPH in surface water samples KWTFS-SW101 and KWTFS-SW102; however, both were below GCTLs.

TABLE 4-1

**FIELD SCREENING RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 1 OF 4**

BORING ID	PID RESULTS (ppmv)		COMMENTS
	0-2 ft	2-4 ft	
100	94.5	995.6	stained soil at 4 ft, slight petroleum odor
104	8.7	2.1	
106	ND	701	fuel odor and staining at 3-3.5 ft
107	ND	1050	stained soil at 3 ft approx 2-3inches thick
108	25.6	1750	strong fuel odor
111	ND	13.7	
112	50.3	575	saturated at surface,
113	36	374.2	
114	19.2	1890	strong fuel odor and stained soil at 4 ft
115	9.2	952	strong fuel odor slight staining
116	8.5	1192	dark stained soil at 2.5 ft, soil saturated at surface
117	11.4	7.6	
129	5329.2	2004.8	strong fuel odor
130	ND	3114.2	
132	139	10.9	fuel odor in 0-2 ft sample
134	16.2	1785.6	strong fuel odor in groundwater and soil
139	ND	113	strong fuel odor
140	230.3	49.3	strong fuel odor
142	ND	278.5	fuel odor
143	ND	248.3	fuel odor and stained soil
145	260.3	832.4	strong fuel odor and stained soil at 1-3 ft
147	129.2	167.5	very strong fuel odor, heavily stained soil
148	58.2	994.2	strong fuel odor, stained soil
149	38.4	150.2	fuel odor and stained soil
151	152.3	0.7	
155	49.6	4.6	stained soil at 2.5-3.0 ft
158	558.2	23.2	strong fuel odor, slightly stained soil
159	12.2	435	fuel odor, light staining
160	3.4	741	fuel odor, no staining
161	1.9	1210.3	fuel odor, no staining
162	4.8	1140.2	fuel odor no staining

TABLE 4-1

**FIELD SCREENING RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 2 OF 4**

BORING ID	PID RESULTS (ppmv)		COMMENTS
	0-2 ft	2-4 ft	
164	ND	91.2	
175	ND	60.2	strong fuel odor, staining at 1-2 ft
176	513.2	16.9	staining at surface, fuel odor
177	ND	60.2	H_2S/fuel odor, light staining
181	381	2865	strong fuel odor, dark stained soil at 2-4 ft
183	941.2	53.6	fuel odor, soil staining from 1-3 ft
189	3940	4689	strong fuel odor, staining from 3.5-4 ft
190	46.2	7016.5	strong fuel odor, staining from 3.5-4 ft
192	4.4	70.2	fuel odor, staining from 05-3.5 ft
193	13.2	189	stained soil from 1.5-2 ft
194	14.9	5778	strong fuel odor, heavily stained soil from 0-3.5 ft
195	12.9	31.8	
196	1802	4071	strong fuel odor, heavily stained soil from 0-3.5 ft
197	42.7	3685	strong fuel odor, heavily stained soil from 0-3.5 ft
198	188.5	115.6	strong fuel odor, heavily stained soil from 0-3.5 ft
199	1498	2020	strong fuel odor, heavily stained soil from 0-3.5 ft
200	35.6	305	strong fuel odor, heavily stained soil from 0-3.5 ft
202	2.5	12.8	strong fuel odor, dark stained soil to >4 ft
203	ND	67.2	fuel odor, stained soil to 3.5 ft
204	37.5	80.7	strong fuel odor, dark stained soil to >4 ft
205	599.2	100.1	fuel odor, stained soil to 3.5 ft
208	14.2	67.8	fuel odor, stained soil from 1-2.5 ft
216	6.2	3160	strong fuel odor, stained soil from 0-4 ft
222	6.3	209.4	H_2S/fuel odor, light staining
236	47.2	614.2	H_2S fuel odor, light staining
239	1570	15.6	strong fuel odor, light staining from 0-3 ft
240	38.2	2170.2	strong fuel odor, light staining from 1.5-3.5 ft
243	0.7	149.2	stong fuel odor, light staining from 0-2.5 ft
250	2.4	339.2	strong fuel odor, dark staining from 3-4.5 ft
251	0.5	295.3	strong fuel odor, dark staining from 2-4 ft
254	2.4	1867	strong fuel odor, stained soil

TABLE 4-1

**FIELD SCREENING RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 3 OF 4**

BORING ID	PID RESULTS (ppmv)		COMMENTS
	0-2 ft	2-4 ft	
255	4.2	2013.4	fuel odor, stained soil from 4.5 - 5 ft
256	1.2	395.2	fuel odor, stained soil from 4.5 - 5 ft
257	0.1	1714	fuel odor, stained soil from 4.5 - 5 ft
258	600	328.2	heavily stained soil from 2.5 -5ft
260	50.1	445.2	strong fuel odor, light staining from 2.5-4 ft
261	ND	1779	strong fuel odor, stained soil from 3-5-5 ft
262	37.5	1905	strong fuel odor, stained soil from 3.5-5 ft
263	0.8	187.3	fuel odor, stained soil from 3.5-5 ft
264	3.8	1808.2	fuel odor, stained soil from 3.5-4 ft
265	3.6	241	light fuel odor, light staining from 3.5-4.5 ft
266	0.4	277.4	light fuel odor, lightly stained soil from 4.5-5 ft
267	267.2	135.6	fuel odor, stained soil from 2.5-4.5 ft
268	244	1678.2	strong fuel odor, dark stained soil
269	55.2	1711.2	fuel odor, lightly stained soil
271	69.2	1116.2	fairly strong fuel odor
273	1213	56.2	fuel odor, light staining from 1-2.5 ft
274	594	212.1	H_2S/fuel odor, lightly stained soil
275	59.6	96.2	H_2S/fuel odor, lightly stained soil, Product seen on tubing
276	32.6	1048	fuel odor, light staining from 1-2.5 ft
277	57.2	28.2	H_2S/fuel odor, stained soil from 0-2.5 ft
278	378.2	375.2	H_2S/fuel odor, stained soil from 2.5-4 ft
279	391.2	114.2	H_2S/fuel odor, stained soil from 2-3.5 ft
280	45.2	68.5	H_2S odor, lightly stained soil
281	159.3	14.3	fuel odor, light staining from 0-2 ft
283	345	104	fairly strong fuel odor, stained soil
289	400.5	589.2	strong fuel odor, stained soil
290	107	60.5	H_2S odor, no staining
297	25.2	968.3	strong fuel odor, heavily stained soil from 3.5-4.5 ft
301	7.2	212	H_2S/fuel odor, soil staining from 2-2.5 ft
305	137	46.3	
315	0.1	312	slight fuel odor, no staining
318	0.1	55.6	stained soil from 3-4.5 ft

TABLE 4-1

**FIELD SCREENING RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 4 OF 4**

BORING ID	PID RESULTS (ppmv)		COMMENTS
	0-2 ft	2-4 ft	
320	0.1	754.2	strong fuel odor, dark stained soil from 3.5-4.5
322	296	200	strong fuel odor, heavily stained soil from 1-4.5 ft
323	360	436	strong fuel odor, heavily stained soil from 1-4.5 ft
329	50.2	749.6	strong fuel odor, stained soil from 2.5-4.5 ft
331	14.5	220	strong fuel odor, stained soil from 2-4.5 ft
341	1.8	281	strong fuel odor, stained soil from 2.5-4 ft
345	3	720.3	strong fuel odor, dark stained soil from 3-3.5 ft
346	14.9	245.6	strong fuel odor, dark stained soil from 3-3.5 ft
352	5.7	41.3	fuel odor, stained soil from 0-2 ft
360	84.6	15.2	H_2S/fuel odor, lightly stained soil from 0-2.5 ft
361	8.3	48.2	fuel odor, soil saturated at surface
374	12.3	1045.2	strong fuel odor, stained soil from 2-4 ft
377	1.4	64.3	earthy type odor, no staining
378	4.6	674.3	fuel odor, stained soil from 2-4 ft
379	2.2	1862	strong fuel odor, stained soil from 2.5-4 ft
380	48.2	1785	very strong fuel odor
383	4.2	520	fuel odor, some staining
384	0.6	84.5	slight fuel odor
387	1.3	194.3	distinct non-fuel odor
388	45.6	169.4	distinct non-fuel odor
392	1.8	204.1	fuel odor, stained soil

TABLE 4-2

**DPT SOIL ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA**

SAMPLE	PARAMETER	RESULTS (µg/kg)*	QUALIFIER	RESIDENTIAL SCTL (µg/kg)*
KW-TFS-TB-04-1104	METHYLENE CHLORIDE	7.1	J	17000
KWTFS-SB108-SO-0002	LEAD	48.5		400
KWTFS-SB108-SO-0002	2-METHYLNAPHTHALENE	5380		210000
KWTFS-SB108-SO-0002	NAPHTHALENE	1480		55000
KWTFS-SB108-SO-0002	TPH (C08-C40)	1570		460
KWTFS-SB114-SO-0002	ANTHRACENE	106	J	21000000
KWTFS-SB114-SO-0002	BENZO(A)ANTHRACENE	858		1300
KWTFS-SB114-SO-0002	BENZO(A)PYRENE	1240		100
KWTFS-SB114-SO-0002	BENZO(B)FLUORANTHENE	1910		1300
KWTFS-SB114-SO-0002	BENZO(G,H,I)PERYLENE	1080		2500000
KWTFS-SB114-SO-0002	BENZO(K)FLUORANTHENE	659		13000
KWTFS-SB114-SO-0002	CHRYSENE	1350		130000
KWTFS-SB114-SO-0002	DIBENZO(A,H)ANTHRACENE	211		100
KWTFS-SB114-SO-0002	FLUORANTHENE	1920		3200000
KWTFS-SB114-SO-0002	INDENO(1,2,3-CD)PYRENE	1180		1300
KWTFS-SB114-SO-0002	PHENANTHRENE	735		2200000
KWTFS-SB114-SO-0002	PYRENE	1670		2400000
KWTFS-SB114-SO-0002	TPH (C08-C40)	79.6		460
KWTFS-SB132-SO-0002	BENZO(A)ANTHRACENE	67.8		1300
KWTFS-SB132-SO-0002	BENZO(A)PYRENE	79.3		100
KWTFS-SB132-SO-0002	BENZO(B)FLUORANTHENE	143		1300
KWTFS-SB132-SO-0002	BENZO(G,H,I)PERYLENE	66.3		2500000
KWTFS-SB132-SO-0002	BENZO(K)FLUORANTHENE	51		13000
KWTFS-SB132-SO-0002	CHRYSENE	94.1		130000
KWTFS-SB132-SO-0002	DIBENZO(A,H)ANTHRACENE	16.6	J	100
KWTFS-SB132-SO-0002	FLUORANTHENE	174	J	3200000
KWTFS-SB132-SO-0002	INDENO(1,2,3-CD)PYRENE	74		1300
KWTFS-SB132-SO-0002	PHENANTHRENE	81.6	J	2200000
KWTFS-SB132-SO-0002	PYRENE	152	J	2400000
KWTFS-SB132-SO-0002	TPH (C08-C40)	43.2		460
KWTFS-SB147-SO-0002	LEAD	3.6		400
KWTFS-SB147-SO-0002	ETHYLBENZENE	16500		1500000
KWTFS-SB147-SO-0002	TOTAL XYLENES	6280		130000
KWTFS-SB147-SO-0002	TPH (C08-C40)	15.9		460

shading indicates a concentration in excess of the SCTL.
Soil Cleanup Target Level as listed in Chapter 62.777, F.A.C. Table II, Residential.
TPH in mg/kg or milligram/kilogram
* µg/kg = microgram per kilogram

TABLE 4-3.1

**MONITORING WELL ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 1 OF 2**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
TFS-EB01-0608	CHLOROFORM	1.1		70
TFS-EB01-0608	METHYLENE CHLORIDE	3.1	J	5
TFS-FD01-0609	IRON	70		4200
TFS-FD01-0609	LEAD	11.4		15
TFS-FD01-0609	BENZO(B)FLUORANTHENE	0.084	J	0.05
TFS-FD01-0609	TPH (C08-C40)	0.241		5
TFS-MW-01-0609	LEAD	14.5		15
TFS-MW-01-0609	1-METHYLNAPHTHALENE	1.4		28
TFS-MW-01-0609	2-METHYLNAPHTHALENE	0.51	J	28
TFS-MW-01-0609	ACENAPHTHENE	0.56	J	420
TFS-MW-01-0609	NAPHTHALENE	1.8		14
TFS-MW-01-0609	TPH (C08-C40)	8.45		5
TFS-MW-04-0609	BENZENE	26.6		1
TFS-MW-04-0609	1-METHYLNAPHTHALENE	21.1		28
TFS-MW-04-0609	2-METHYLNAPHTHALENE	8.2		28
TFS-MW-04-0609	ACENAPHTHENE	0.48	J	420
TFS-MW-04-0609	NAPHTHALENE	31.7		14
TFS-MW-04-0609	TPH (C08-C40)	9.39		5
TFS-MW-05-0609	IRON	69.8		4200
TFS-MW-05-0609	LEAD	2.6		15
TFS-MW-05-0609	TPH (C08-C40)	0.884		5
TFS-MW-07-0609	LEAD	2.2		15
TFS-MW-07-0609	BENZO(B)FLUORANTHENE	0.08	J	0.05
TFS-MW-07-0609	BENZO(G,H,I)PERYLENE	0.052	J	210
TFS-MW-07-0609	INDENO(1,2,3-CD)PYRENE	0.054	J	0.05
TFS-MW-07-0609	TPH (C08-C40)	0.209	J	5
TFS-MW-08D-0609	IRON	33.7		4200
TFS-MW-08D-0609	LEAD	8.8		15
TFS-MW-08D-0609	BENZO(A)ANTHRACENE	0.049	J	0.05
TFS-MW-08D-0609	BENZO(A)PYRENE	0.061	J	0.2
TFS-MW-08D-0609	BENZO(B)FLUORANTHENE	0.12	J	0.05
TFS-MW-08D-0609	BENZO(G,H,I)PERYLENE	0.066	J	210
TFS-MW-08D-0609	INDENO(1,2,3-CD)PYRENE	0.061	J	0.05
TFS-MW-08D-0609	TPH (C08-C40)	0.225	J	5
TFS-MW-11-0609	TPH (C08-C40)	0.83		5
TFS-MW-12-0609	TPH (C08-C40)	1.1		5
TFS-P-01-0609	NAPHTHALENE	0.31	J	14
TFS-P-01-0609	TPH (C08-C40)	4.6		5
TFS-FD-01-1009	IRON	25.7		4200

TABLE 4-3.1

**MONITORING WELL ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 2 OF 2**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
TFS-FD-01-1009	TPH (C08-C40)	0.602		5
TFS-MW-01-1009	NAPHTHALENE	0.57	J	14
TFS-MW-01-1009	TPH (C08-C40)	4.6		5
TFS-MW-01-1009	IRON	323		4200
TFS-MW-01-1009	LEAD	2.9		15
TFS-MW-02-1009	TPH (C08-C40)	1.06		5
TFS-MW-04-1009	BENZENE	36.8		1
TFS-MW-04-1009	ETHYLBENZENE	0.44	J	700
TFS-MW-04-1009	1-METHYLNAPHTHALENE	36.4		28
TFS-MW-04-1009	2-METHYLNAPHTHALENE	21.4		28
TFS-MW-04-1009	NAPHTHALENE	58.5		14
TFS-MW-04-1009	TPH (C08-C40)	10.8		5
TFS-MW-05-1009	IRON	50.1		4200
TFS-MW-05-1009	TPH (C08-C40)	0.29		5
TFS-MW-08D-1109	BROMODICHLOROMETHANE	0.37	J	0.6
TFS-MW-08D-1109	CHLOROFORM	0.64	J	70
TFS-MW-08D-1109	TPH (C08-C40)	0.307		5
TFS-MW-11-1009	TPH (C08-C40)	0.893		5
TFS-MW-12-1009	TPH (C08-C40)	1.15		5
TFS-P-01-1009	NAPHTHALENE	0.33	J	14
TFS-P-01-1009	TPH (C08-C40)	4.12		5
TFS-902C-MW-01-1009	TPH (C08-C40)	1.24		5
TFS-902C-MW-02-1009	BENZO(B)FLUORANTHENE	0.07	J	0.05
TFS-902C-MW-02-1009	TPH (C08-C40)	1.23		5
TFS-902C-MW-03-1009	FLUORANTHENE	0.25	J	280
TFS-902C-MW-03-1009	TPH (C08-C40)	1.05		5
TFS-902C-MW-04-1009	BENZO(B)FLUORANTHENE	0.055	J	0.05
TFS-902C-MW-04-1009	TPH (C08-C40)	0.899		5
TFS-MW-09-1109	TPH (C08-C40)	0.334		5
TFS-MW-10-1109	BENZO(B)FLUORANTHENE	0.07	J	0.05
TFS-MW-10-1109	TPH (C08-C40)	0.392		5
TFS-MW-13-1109	ACENAPHTHENE	6.8		420
TFS-MW-13-1109	FLUORANTHENE	0.49	J	280
TFS-MW-13-1109	PYRENE	0.31	J	210
TFS-MW-13-1109	TPH (C08-C40)	0.453		5
TFS-MW-14-1109	TPH (C08-C40)	0.197	J	5

Shading indicates a concentration in excess of the GCTL.
Groundwater Cleanup Target Level as listed in Chapter 62-777, F.A.C., Table I and Chapter 62- 785.900, Table I.
TPH in mg/kg or milligram/kilogram
* µg/kg = microgram per kilogram

TABLE 4-3.2

**DPT GROUNDWATER ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 1 OF 4**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
KWTFS-SB108-GW-0307	1-METHYLNAPHTHALENE	55.7		28
KWTFS-SB108-GW-0307	2-METHYLNAPHTHALENE	54.9		28
KWTFS-SB108-GW-0307	FLUORENE	0.7	J	280
KWTFS-SB108-GW-0307	NAPHTHALENE	38.6		14
KWTFS-SB108-GW-0307	TPH (C08-C40)	4.13		5
KWTFS-SB114-GW-0307	CHLOROMETHANE	0.7	J	2.7
KWTFS-SB114-GW-0307	ETHYLBENZENE	0.44	J	700
KWTFS-SB114-GW-0307	1-METHYLNAPHTHALENE	0.57	J	28
KWTFS-SB114-GW-0307	TPH (C08-C40)	16.1		5
KWTFS-SB122-GW-0307	TPH (C08-C40)	0.902		5
KWTFS-SB129-GW-0307	CHLOROMETHANE	0.86	J	2.7
KWTFS-SB129-GW-0307	ETHYLBENZENE	3.5		700
KWTFS-SB129-GW-0307	TOTAL XYLENES	1.4	J	10000
KWTFS-SB132-GW-0307	ETHYLBENZENE	2	J	700
KWTFS-SB132-GW-0307	TPH (C08-C40)	0.185	I	5
KWTFS-SB134-GW-0307	ETHYLBENZENE	3.7	J	700
KWTFS-SB134-GW-0307	TOTAL XYLENES	2	J	10000
KWTFS-SB134-GW-0307	1-METHYLNAPHTHALENE	0.34	J	28
KWTFS-SB134-GW-0307	2-METHYLNAPHTHALENE	0.3	J	28
KWTFS-SB134-GW-0307	ACENAPHTHENE	0.55	J	420
KWTFS-SB134-GW-0307	BENZO(A)ANTHRACENE	0.065	J	0.05
KWTFS-SB134-GW-0307	FLUORANTHENE	0.52	J	280
KWTFS-SB134-GW-0307	NAPHTHALENE	0.42	J	14
KWTFS-SB134-GW-0307	PYRENE	0.37	J	210
KWTFS-SB134-GW-0307	TPH (C08-C40)	0.348		5
KWTFS-SB147-GW-0307	BENZENE	10.7	J	1
KWTFS-SB147-GW-0307	CHLOROFORM	3.1		70
KWTFS-SB147-GW-0307	ETHYLBENZENE	357	J	700
KWTFS-SB147-GW-0307	METHYLENE CHLORIDE	2.1	J	5
KWTFS-SB147-GW-0307	TOLUENE	8.7	J	1000
KWTFS-SB147-GW-0307	TOTAL XYLENES	172	J	10000
KWTFS-SB147-GW-0307	1-METHYLNAPHTHALENE	0.49	J	28
KWTFS-SB147-GW-0307	2-METHYLNAPHTHALENE	0.49	J	28
KWTFS-SB147-GW-0307	NAPHTHALENE	3.3		14
KWTFS-SB147-GW-0307	PHENANTHRENE	0.29	J	210
KWTFS-SB147-GW-0307	TPH (C08-C40)	1.69		5
KWTFS-SB109-GW-0307	TPH (C08-C40)	1.76		5
KWTFS-SB111-GW-0307	TPH (C08-C40)	0.881		5
KWTFS-SB225-GW-0307	TPH (C08-C40)	0.196	I	5
KWTFS-SB243-GW-0307	METHYL TERT-BUTYL ETHER	0.38	I	20

TABLE 4-3.2

**DPT GROUNDWATER ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 2 OF 4**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
KWTFS-SB243-GW-0307	TPH (C08-C40)	0.61		5
KWTFS-SB390-GW-0307	1-METHYLNAPHTHALENE	0.32	I	28
KWTFS-SB390-GW-0307	TPH (C08-C40)	0.697		5
KWTFS-SB315-GW-0307	DIBENZO(A,H)ANTHRACENE	0.31	I	0.005
KWTFS-SB315-GW-0307	TPH (C08-C40)	0.228		5
KWTFS-SB296-GW-0307	BENZENE	0.23	I	1
KWTFS-SB296-GW-0307	1-METHYLNAPHTHALENE	0.49	I	28
KWTFS-SB296-GW-0307	TPH (C08-C40)	0.532		5
KWTFS-SB275-GW-0307	1,4-DICHLOROBENZENE	0.41	I	75
KWTFS-SB275-GW-0307	METHYL TERT-BUTYL ETHER	0.82	I	20
KWTFS-SB275-GW-0307	TOTAL XYLENES	1.7	I	10000
KWTFS-SB275-GW-0307	TPH (C08-C40)	0.535		5
KWTFS-SB251-GW-0307	1-METHYLNAPHTHALENE	0.4	I	28
KWTFS-SB251-GW-0307	2-METHYLNAPHTHALENE	0.4	I	28
KWTFS-SB251-GW-0307	BENZO(A)ANTHRACENE	0.4		0.05
KWTFS-SB251-GW-0307	BENZO(A)PYRENE	0.18	I	0.2
KWTFS-SB251-GW-0307	BENZO(B)FLUORANTHENE	0.29		0.05
KWTFS-SB251-GW-0307	BENZO(G,H,I)PERYLENE	0.059	I	210
KWTFS-SB251-GW-0307	BENZO(K)FLUORANTHENE	0.11	I	0.5
KWTFS-SB251-GW-0307	CHRYSENE	0.34		4.8
KWTFS-SB251-GW-0307	FLUORANTHENE	1.6		280
KWTFS-SB251-GW-0307	INDENO(1,2,3-CD)PYRENE	0.088	I	0.05
KWTFS-SB251-GW-0307	NAPHTHALENE	0.26	I	14
KWTFS-SB251-GW-0307	PHENANTHRENE	0.42	I	210
KWTFS-SB251-GW-0307	PYRENE	1.2		210
KWTFS-SB251-GW-0307	TPH (C08-C40)	0.28		5
KWTFS-SB128-GW-0307	TPH (C08-C40)	0.44		5
KWTFS-SB361-GW-0307	METHYL TERT-BUTYL ETHER	0.27	I	20
KWTFS-SB361-GW-0307	TPH (C08-C40)	0.384		5
KWTFS-SB365-GW-0307	METHYL TERT-BUTYL ETHER	8.7		20
KWTFS-SB365-GW-0307	TPH (C08-C40)	0.394		5
KWTFS-SB369-GW-0307	TPH (C08-C40)	0.29		5
KWTFS-SB378-GW-0307	TPH (C08-C40)	0.294		5
KWTFS-SB381-GW-0307	1-METHYLNAPHTHALENE	1.4		28
KWTFS-SB381-GW-0307	2-METHYLNAPHTHALENE	1.3		28
KWTFS-SB381-GW-0307	NAPHTHALENE	0.4	I	14
KWTFS-SB381-GW-0307	TPH (C08-C40)	0.485		5
KWTFS-SB386-GW-0307	1-METHYLNAPHTHALENE	0.5	I	28
KWTFS-SB386-GW-0307	PHENANTHRENE	0.25	I	210
KWTFS-SB386-GW-0307	TPH (C08-C40)	0.341		5

TABLE 4-3.2

**DPT GROUNDWATER ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 3 OF 4**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
KWTFS-SB118-GW-0307	TPH (C08-C40)	1.04		5
KWTFS-SB124-GW-0307	TPH (C08-C40)	0.275		5
KWTFS-SB362-GW-0307	TPH (C08-C40)	0.513		5
KWTFS-SB389-GW-0307	TPH (C08-C40)	1.35		5
KWTFS-SB221-GW-0307	TPH (C08-C40)	0.215		5
KWTFS-SB346-GW-0307	TPH (C08-C40)	0.247		5
KWTFS-SB164-GW-0307	TPH (C08-C40)	0.185		5
KWTFS-SB119-GW-0307	1,4-DICHLOROBENZENE	0.52	I	75
KWTFS-SB119-GW-0307	ETHYLBENZENE	0.3	I	700
KWTFS-SB119-GW-0307	TOTAL XYLENES	0.83	I	10000
KWTFS-SB119-GW-0307	TPH (C08-C40)	0.387		5
KWTFS-SB137-GW-0307	FLUORANTHENE	0.43	I	280
KWTFS-SB137-GW-0307	PYRENE	0.25	I	210
KWTFS-SB137-GW-0307	TPH (C08-C40)	0.269		5
KWTFS-SB151-GW-0307	ACENAPHTHENE	8.4		420
KWTFS-SB151-GW-0307	BENZO(A)ANTHRACENE	0.87		0.05
KWTFS-SB151-GW-0307	BENZO(A)PYRENE	1.1		0.2
KWTFS-SB151-GW-0307	BENZO(B)FLUORANTHENE	1.6		0.05
KWTFS-SB151-GW-0307	BENZO(G,H,I)PERYLENE	0.9		210
KWTFS-SB151-GW-0307	BENZO(K)FLUORANTHENE	0.54		0.5
KWTFS-SB151-GW-0307	CHRYSENE	0.94		4.8
KWTFS-SB151-GW-0307	DIBENZO(A,H)ANTHRACENE	0.2		0.005
KWTFS-SB151-GW-0307	FLUORANTHENE	2.5		280
KWTFS-SB151-GW-0307	INDENO(1,2,3-CD)PYRENE	1		0.05
KWTFS-SB151-GW-0307	PYRENE	2.4		210
KWTFS-SB151-GW-0307	TPH (C08-C40)	0.341		5
KWTFS-SB194-GW-0307	ETHYLBENZENE	1.1		700
KWTFS-SB194-GW-0307	1-METHYLNAPHTHALENE	1.6		28
KWTFS-SB194-GW-0307	2-METHYLNAPHTHALENE	0.52	I	28
KWTFS-SB194-GW-0307	NAPHTHALENE	0.35	I	14
KWTFS-SB194-GW-0307	TPH (C08-C40)	0.377		5
KWTFS-SB215-GW-0307	BENZENE	0.55		1
KWTFS-SB215-GW-0307	ETHYLBENZENE	1.2		700
KWTFS-SB215-GW-0307	TOLUENE	0.22	I	1000
KWTFS-SB215-GW-0307	TOTAL XYLENES	1.4	I	10000
KWTFS-SB215-GW-0307	ACENAPHTHENE	11.2		420
KWTFS-SB215-GW-0307	BENZO(A)ANTHRACENE	0.2		0.05
KWTFS-SB215-GW-0307	BENZO(B)FLUORANTHENE	0.077	I	0.05
KWTFS-SB215-GW-0307	CHRYSENE	0.18	I	4.8
KWTFS-SB215-GW-0307	FLUORANTHENE	3.8		280

TABLE 4-3.2

**DPT GROUNDWATER ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA
PAGE 4 OF 4**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
KWTFS-SB215-GW-0307	FLUORENE	0.66	I	280
KWTFS-SB215-GW-0307	NAPHTHALENE	1.1		14
KWTFS-SB215-GW-0307	PHENANTHRENE	0.7	I	210
KWTFS-SB215-GW-0307	PYRENE	2.5		210
KWTFS-SB215-GW-0307	TPH (C08-C40)	0.695		5

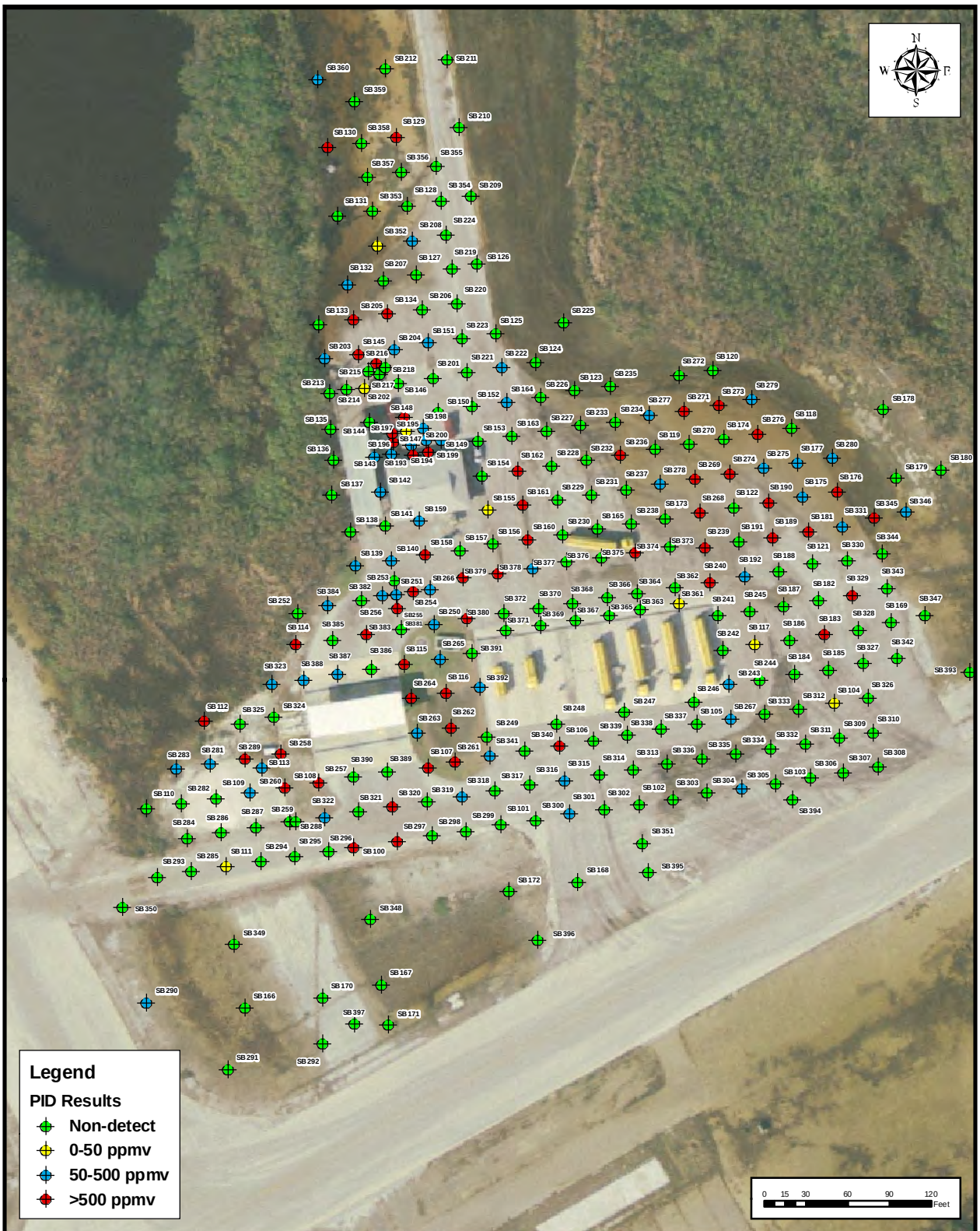
Shading indicates a concentration in excess of the GCTL.
Groundwater Cleanup Target Level as listed in Chapter 62-777, F.A.C., Table I and Chapter 62- 785.900, Table I.
TPH in mg/kg or milligram/kilogram
* µg/kg = microgram per kilogram

TABLE 4-4

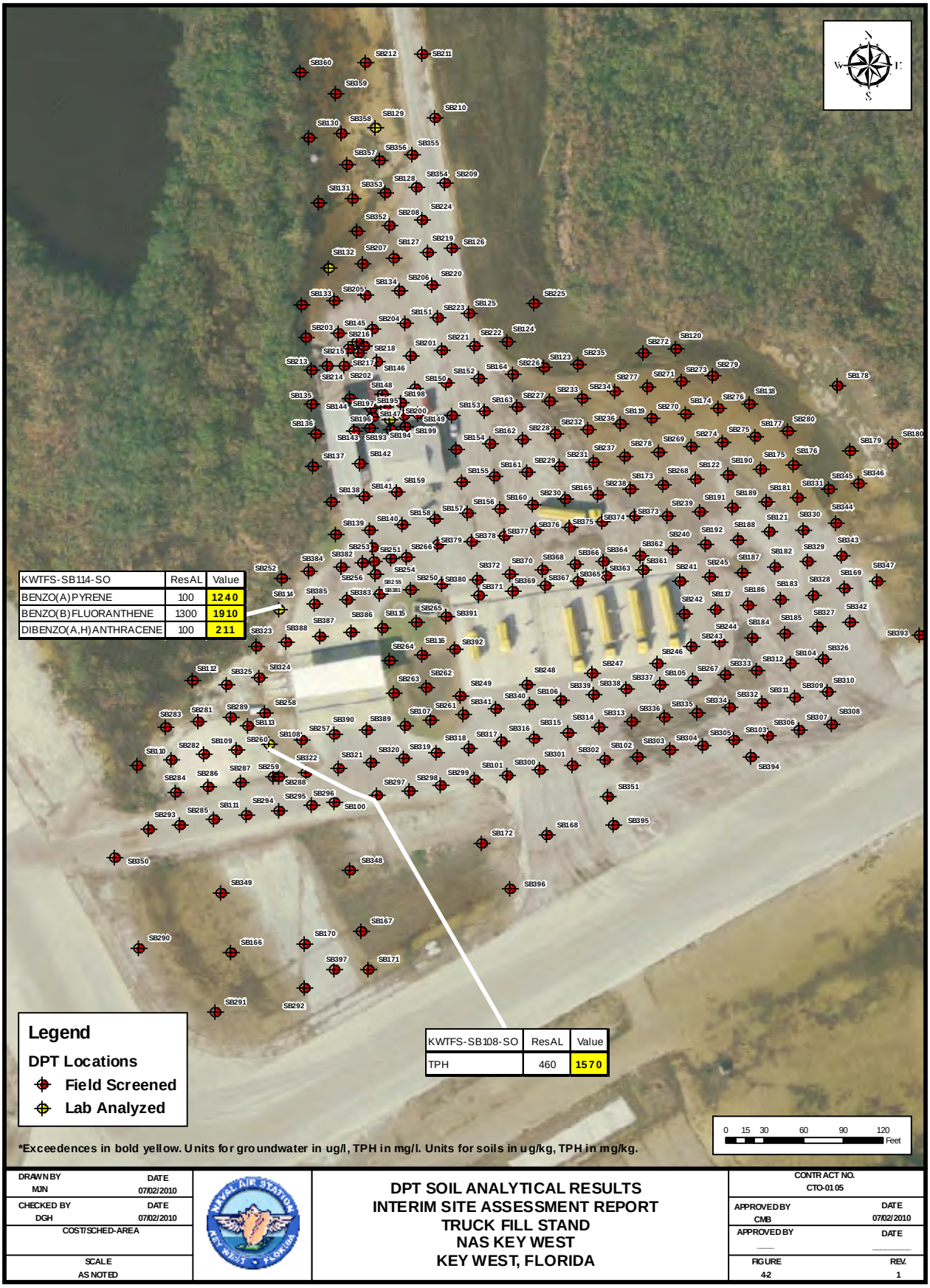
**SURFACE WATER ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA**

SAMPLE	PARAMETER	RESULTS (µg/L)*	QUALIFIER	HEALTH-BASED GCTL (µg/L)*
KWTFS-SW100-1109	BROMOFORM	0.36	J	4.4
KWTFS-SW101-1109	IRON	221		4200
KWTFS-SW101-1109	BENZO(A)ANTHRACENE	0.22		0.05
KWTFS-SW101-1109	BENZO(A)PYRENE	0.37		0.2
KWTFS-SW101-1109	BENZO(B)FLUORANTHENE	0.65		0.05
KWTFS-SW101-1109	BENZO(G,H,I)PERYLENE	0.29		210
KWTFS-SW101-1109	BENZO(K)FLUORANTHENE	0.19		0.5
KWTFS-SW101-1109	CHRYSENE	0.34		4.8
KWTFS-SW101-1109	DIBENZO(A,H)ANTHRACENE	0.066	J	0.005
KWTFS-SW101-1109	FLUORANTHENE	0.46	J	280
KWTFS-SW101-1109	INDENO(1,2,3-CD)PYRENE	0.34		0.05
KWTFS-SW101-1109	PYRENE	0.38	J	210
KWTFS-SW101-1109	TPH (C08-C40)	0.199	J	5
KWTFS-SW102-1109	BENZO(A)ANTHRACENE	0.056	J	0.05
KWTFS-SW102-1109	BENZO(A)PYRENE	0.11	J	0.2
KWTFS-SW102-1109	BENZO(B)FLUORANTHENE	0.25		0.05
KWTFS-SW102-1109	BENZO(G,H,I)PERYLENE	0.12	J	210
KWTFS-SW102-1109	BENZO(K)FLUORANTHENE	0.068	J	0.5
KWTFS-SW102-1109	CHRYSENE	0.13	J	4.8
KWTFS-SW102-1109	INDENO(1,2,3-CD)PYRENE	0.13	J	0.05
KWTFS-SW102-1109	TPH (C08-C40)	0.193	J	5

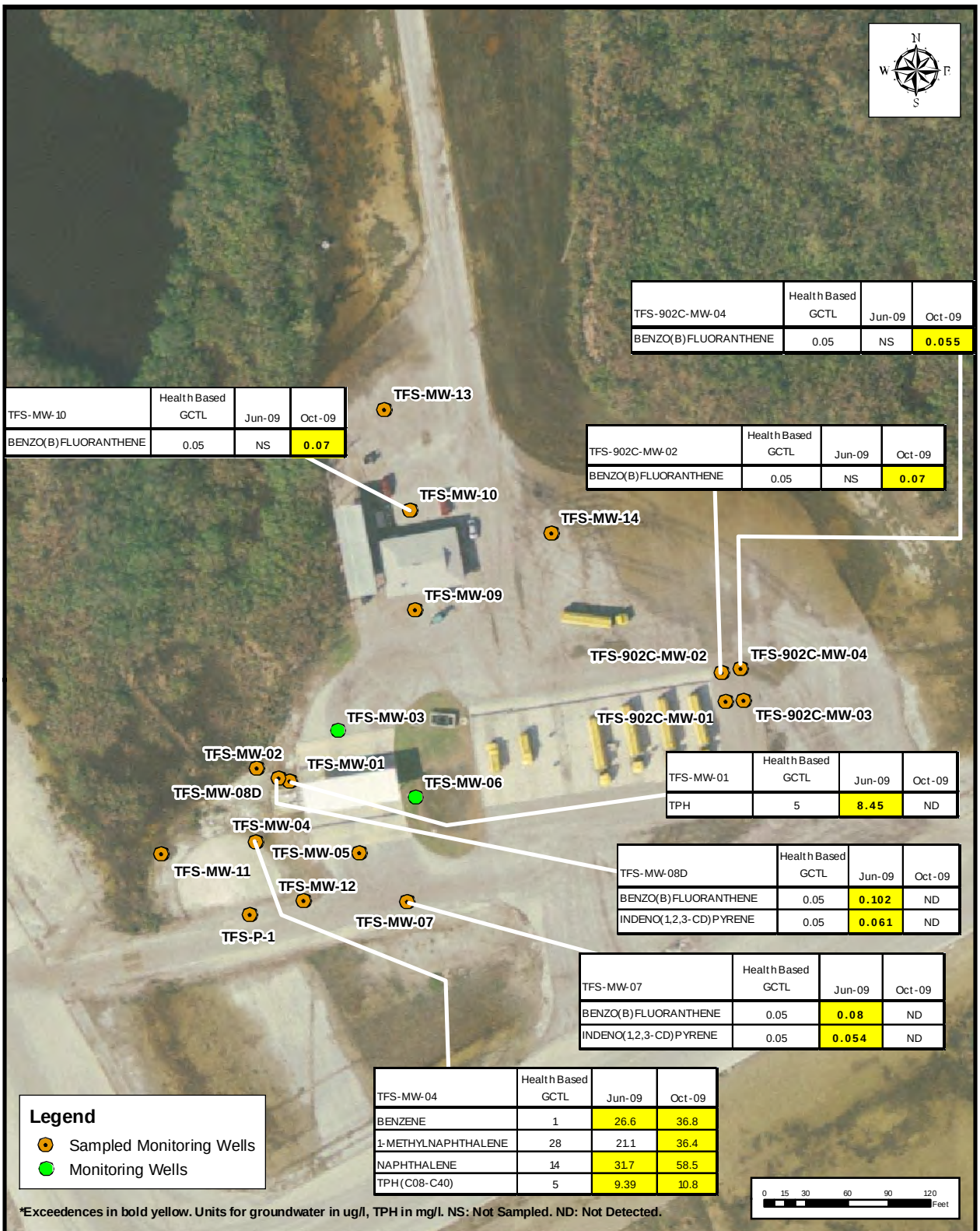
Shading indicates a concentration in excess of the GCTL.
Groundwater Cleanup Target Level as listed in Chapter 62-777, F.A.C., Table I and Chapter 62- 785.900, Table I.
TPH in mg/kg or milligram/kilogram
* µg/kg = microgram per kilogram



DRAWN BY MJN	DATE 07/02/2010	FIELD SCREENING RESULTS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO. CTO-0105
CHECKED BY DGH	DATE 07/02/2010		APPROVED BY CMB / DATE 07/02/2010
COST/SCHED-AREA			APPROVED BY ____ / DATE ____
SCALE AS NOTED			FIGURE 4-1 / REV. 1



DRAWN BY MJN	DATE 07/02/2010	DPT SOIL ANALYTICAL RESULTS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO. CTO-0105
CHECKED BY DGH	DATE 07/02/2010		APPROVED BY CMB / DATE 07/02/2010
COST/SCHED-AREA			APPROVED BY ____ / DATE ____
SCALE AS NOTED			FIGURE 42 / REV. 1



TFS-902C-MW-04	Health Based GCTL	Jun-09	Oct-09
BENZO(B)FLUORANTHENE	0.05	NS	**0.055**

TFS-MW-10	Health Based GCTL	Jun-09	Oct-09
BENZO(B)FLUORANTHENE	0.05	NS	**0.07**

TFS-902C-MW-02	Health Based GCTL	Jun-09	Oct-09
BENZO(B)FLUORANTHENE	0.05	NS	**0.07**

TFS-MW-01	Health Based GCTL	Jun-09	Oct-09
TPH	5	**8.45**	ND

TFS-MW-08D	Health Based GCTL	Jun-09	Oct-09
BENZO(B)FLUORANTHENE	0.05	**0.102**	ND
INDENO(1,2,3-CD)PYRENE	0.05	**0.061**	ND

TFS-MW-07	Health Based GCTL	Jun-09	Oct-09
BENZO(B)FLUORANTHENE	0.05	**0.08**	ND
INDENO(1,2,3-CD)PYRENE	0.05	**0.054**	ND

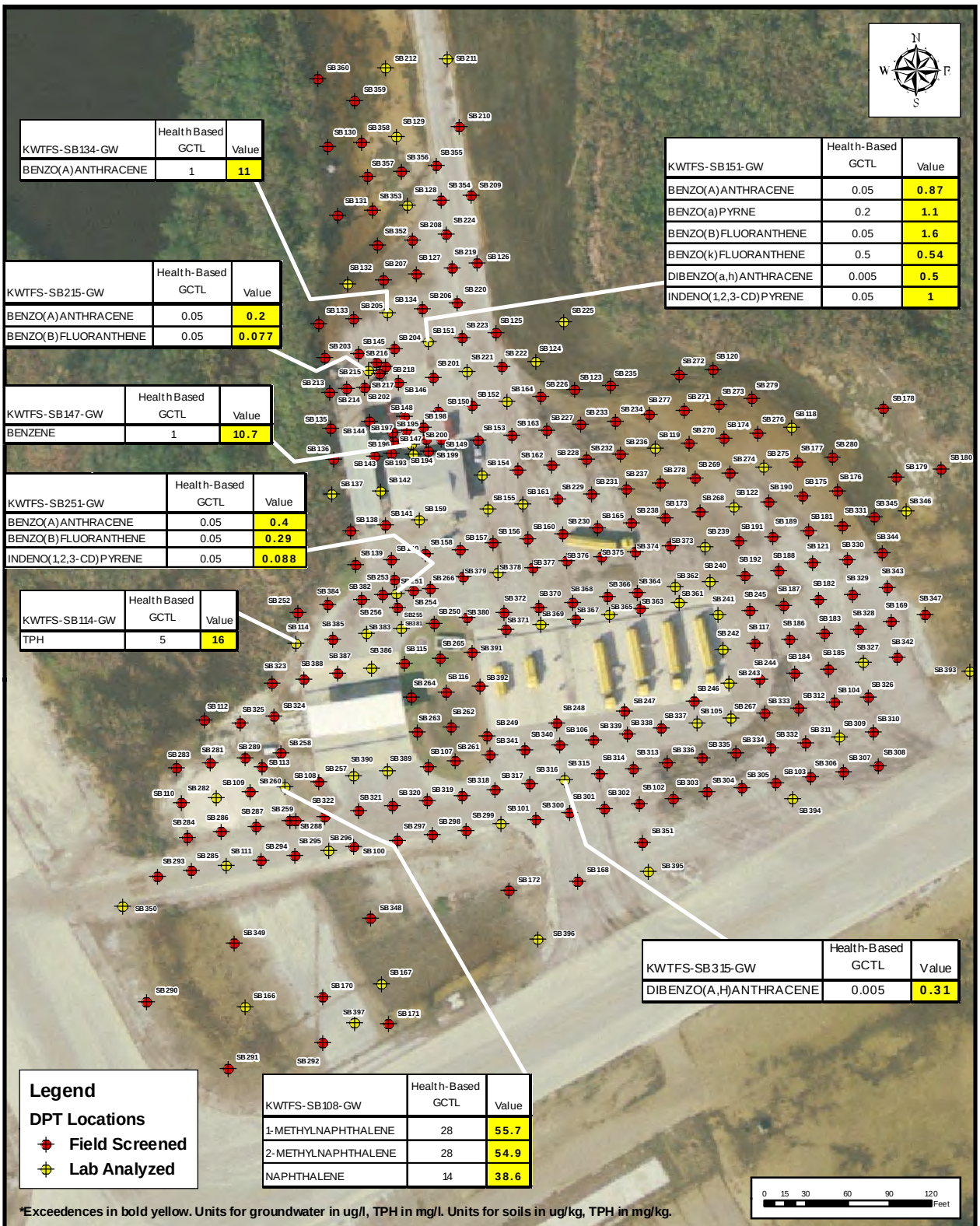
TFS-MW-04	Health Based GCTL	Jun-09	Oct-09
BENZENE	1	26.6	36.8
1-METHYLNAPHTHALENE	28	21.1	36.4
NAPHTHALENE	14	31.7	58.5
TPH(C08-C40)	5	9.39	10.8

***Exceedences in bold yellow. Units for groundwater in ug/l, TPH in mg/l. NS: Not Sampled. ND: Not Detected.**

DRAWN BY: MJN	DATE: 07/16/2010
CHECKED BY: DGH	DATE: 07/16/2010
COST/SCHED-AREA	
SCALE: AS NOTED	

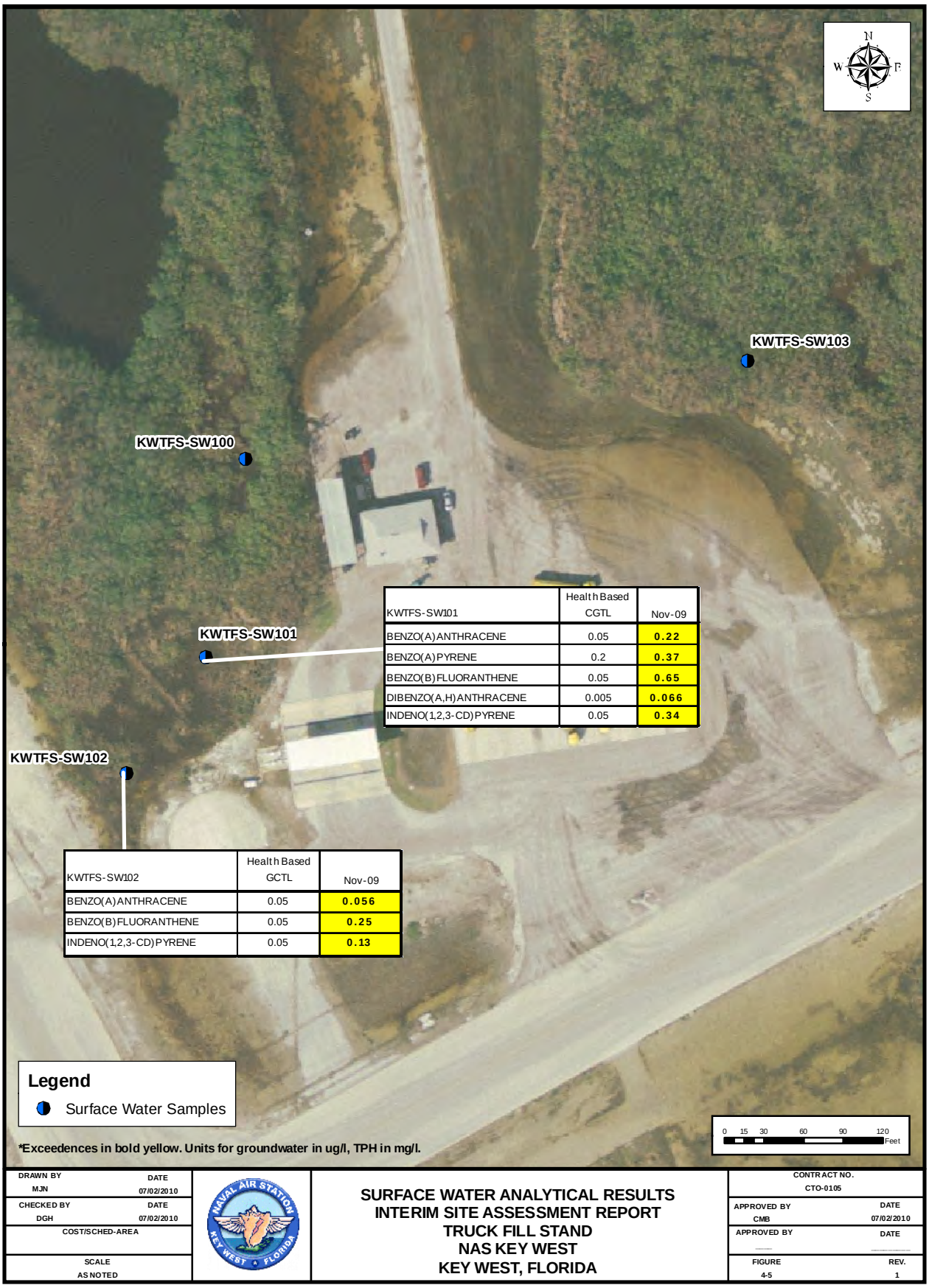
MONITORING WELL ANALYTICAL RESULTS
INTERIM SITE ASSESSMENT REPORT
TRUCK FILL STAND
NAS KEY WEST
KEY WEST, FLORIDA

CONTRACT NO.: CTO-0105	
APPROVED BY: CMB	DATE: 07/16/2010
APPROVED BY:	DATE:
FIGURE: 4-3	REV.: 1



*Exceedences in bold yellow. Units for groundwater in ug/l, TPH in mg/l. Units for soils in ug/kg, TPH in mg/kg.

DRAWN BY MJN	DATE 07/02/2010	DPT GROUNDWATER ANALYTICAL RESULTS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO. CTO-0105
CHECKED BY DGH	DATE 07/02/2010		APPROVED BY CMB / DATE 07/02/2010
COST/SCHED-AREA			APPROVED BY / DATE
SCALE AS NOTED			FIGURE 4-4 / REV. 1



KWTFS-SW101	Health Based CGTL	Nov-09
BENZO(A)ANTHRACENE	0.05	**0.22**
BENZO(A)PYRENE	0.2	**0.37**
BENZO(B)FLUORANTHENE	0.05	**0.65**
DIBENZO(A,H)ANTHRACENE	0.005	**0.066**
INDENO(1,2,3-CD)PYRENE	0.05	**0.34**

KWTFS-SW102	Health Based GCTL	Nov-09
BENZO(A)ANTHRACENE	0.05	**0.056**
BENZO(B)FLUORANTHENE	0.05	**0.25**
INDENO(1,2,3-CD)PYRENE	0.05	**0.13**

***Exceedences in bold yellow. Units for groundwater in ug/l, TPH in mg/l.**

DRAWN BY MJN	DATE 07/02/2010	**SURFACE WATER ANALYTICAL RESULTS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA**	CONTRACT NO. CTO-0105
CHECKED BY DGH	DATE 07/02/2010		APPROVED BY CMB / DATE 07/02/2010
COST/SCHED-AREA			APPROVED BY ____ / DATE ____
SCALE AS NOTED			FIGURE 4-5 / REV. 1

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following provides conclusions and recommendations based on the site assessment performed by TtNUS at the TFS:

- The site in underlain by a surficial aquifer comprised of oolitic limestone. No confining layers were encountered during the investigation.
- The surficial aquifer is non-potable.
- Headspace vapor analysis was conducted for soil from the 0-2 and 2-4 foot vadose zones. Several samples collected resulted in contaminant concentrations above the "excessively contaminated" levels of 50 ppm; however, due to the elevated water table, true vadose zone soil was not found on the site.
- A total of five (5) soil samples from the DPT borings were collected for laboratory analysis. Contaminants were detected in four of the samples, detections above SCTLs were found at two of the locations.
- Groundwater samples from four monitoring wells exhibited concentrations above GCTLs TFS-MW-04, TFS-MW-10, TFS-902C-MW-02, and TFS-902C-MW-04.
- A total of sixty (60) DPT groundwater samples were collected for laboratory analysis. Eight of the groundwater samples analyzed had laboratory detections of contaminants that exceeded GCTLs. PAH compounds were detected in several of the samples collected.
- Two of the four surface water samples from water bodies located east and west of the site contained contaminant concentrations above GCTLs.

A total of 298 DPT borings were installed to investigate the extent of impacted soil and groundwater at the TFS. Previous discussions with NAS Key West Partnering Team and long term Key West personnel familiar with the site revealed several possibilities for sources of contamination at the site. These potential sources, which included the area in the vicinity of the POL Building and areas north of the building where truck maintenance was performed, were investigated with additional closer spaced DPT locations during this assessment. Areas north and directly adjacent to the POL Building were identified as having elevated levels of VOCs in the soil and groundwater. In addition, an area the south of the POL Building had an initial detection of free product in one of the borings.

Although the investigation revealed the presence of areas or "hot spots" of hydrocarbon contamination, no apparent significant sources appear to be present. Due to the relatively well-defined extents of

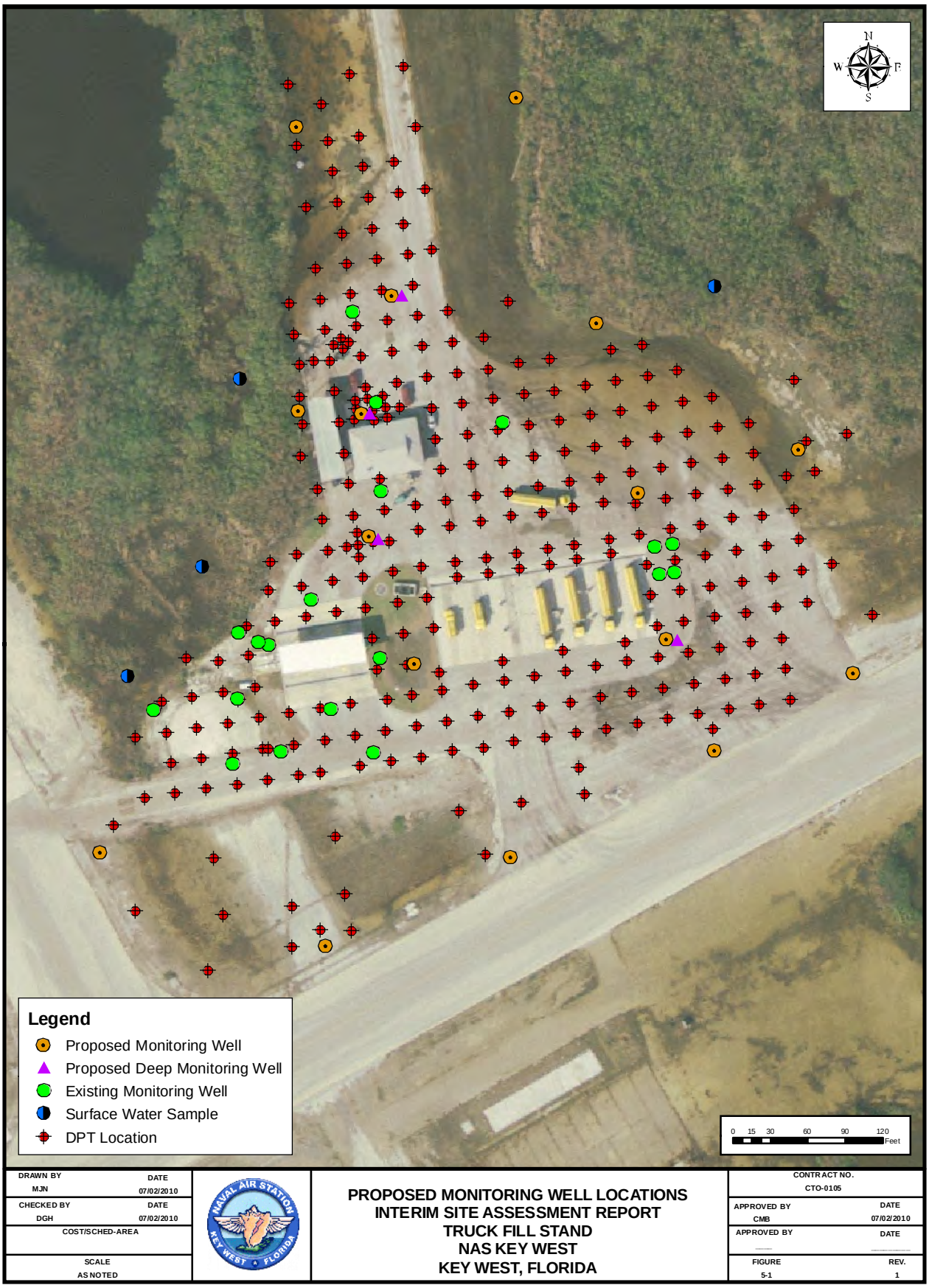
contamination, and generally low concentrations, these newly discovered areas and are not considered significant sources.

Based on the hydrogeologic and chemical data presented in this Interim Site Assessment, it is recommended that sixteen shallow and three deep monitoring wells be installed at the site to define the nature and extent of contamination. The shallow wells should be installed along the perimeter of the site to basically determine any potential off site migration of contaminants. One deep well should be nested with a shallow well north of and adjacent to the POL Building is the area found to contain groundwater exceedances. In addition, one deep well should be nested with a shallow well in the area south of the POL Building at the location of free product discovery. Figure 5-1 shows proposed monitoring well locations. It is also recommended that the wells be sampled for Appendix IX VOCs and SVOCs to further quantify the presence of Gasoline Range Organic compounds. In addition, based on the facts presented by Key West personnel of truck maintenance operations at TFS, it is also recommended that samples be analyzed for the metals chromium, nickel, iron, and cadmium. These metals are present in most used oils and lubricants.

Due to the close proximity of elevated soil and groundwater levels to the POL Building, the surface below the building slab should also be further investigated to evaluate the possibility of hydrocarbon vapor intrusion. VOCs in groundwater can volatilize, enabling vapors to migrate through soil and potentially infiltrate a building via foundation cracks or other preferential pathways such as utility conduits and pipelines. It is recommended that active soil gas (ASG) samples be collected beneath the slab of the building in conjunction with an indoor air quality (IAQ) samples to assess the potential for contaminants to infiltrate the building.

The MNA area currently being evaluated at the TFS was included in the site assessment, and no distinct source area was discovered within this vicinity. It is therefore proposed that the MNA area be re-evaluated to include the area defined by this investigation.

Finally, the presence of chemical contaminants in surface water indicates the potential for existing contamination within the wetlands. Sediment samples should be obtained from the wetlands to determine the level of impact from the Truck Fill Stand site.



DRAWN BY: MJN	DATE: 07/02/2010	PROPOSED MONITORING WELL LOCATIONS INTERIM SITE ASSESSMENT REPORT TRUCK FILL STAND NAS KEY WEST KEY WEST, FLORIDA	CONTRACT NO.: CTO-0105
CHECKED BY: DGH	DATE: 07/02/2010		APPROVED BY: CMB DATE: 07/02/2010
COST/SCHED-AREA			APPROVED BY: ____ DATE: ____
SCALE: AS NOTED			FIGURE: 5-1 REV.: 1

REFERENCES

BBL, 2001a. Supplemental Site Assessment Report, Building A-902, Truck Fill Stand, NAS Key West, Florida, February.

B&RE (Brown & Root Environmental), 1997. Supplemental RCRA Facility Investigation and Remedial Investigation Report, Boca Chica Key, Florida, July.

FDEP (Florida Department of Environmental Protection), 2002. SOPs for Field Activities, DEP-SOP-001/01. Tallahassee, Florida, January.

OES (Omega Environmental Services, Inc.), 1995. UST Closure Report, Tank A-902B, NAS Key West, Florida, October.

TtNUS (Tetra Tech NUS, Inc.), 1999. Site Assessment Report for Building A-902, Truck Fill Stand, NAS Key West, Florida, prepared for Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), Tallahassee, Florida, April.

TtNUS 2003a. Baseline Monitored Natural Attenuation Sampling Work Plan for Truck Fill Stand, NAS Key West, Florida.

TtNUS 2003b. Monitored Natural Attenuation Report for Truck Fill Stand and Boca Chica Tank Farm, NAS Key West, Florida, May.

TtNUS 2003c. Monitored Natural Attenuation Report for Truck Fill Stand and Boca Chica Tank Farm, NAS Key West, Florida, August.

TtNUS 2009. Contamination Assessment Plan for Truck Fill Stand, NAS Key West, Florida, October.

APPENDIX A

FIELD LOG SHEET

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB100-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB100	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB101-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB101	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**	Not known	**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/17/09	11:45	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	initial GW profile screening sample for field screening only	
✓	11/24/09	10:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	second screening sample during lab sample collection	
✓	11/24/09	10:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	10:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	10:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

B-Tec 11/17/2009 - MEDIUM 124SA: 50cc-light stain 75-100 ppm, centering on 100 ppm; 100cc-light stain 75-125, darker stain 125-150, lighter stain 150-175; 200cc-consistent stain 125-300 with darkest centering on 210 pm line. 105: 50cc-very slight stain 75-150 ppm; 100cc-darker stain 100-150 ppm, light stain 150-175 ppm; 200cc-light stain 100-300 ppm, darker 200-300 centering on 250 ppm, light 300-off scale, wet look below trace line, crystal pathway to 20 ppm line.
********** B-Tec 11/24/2009 with Lab Sample collection - MEDIUM TO HIGH 124SA: 50cc-light staining 10-30 ppm; 100cc-medium brown staining 15-30 ppm; 200cc-medium brown staining 30-50 ppm, light stain 50-75 ppm. 105: 50cc-light stain just above trace line; 100cc-dark stain just above trace line; 200cc-dark stain trace to halfway to 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB102-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB102	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB103-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB103	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB104-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB104	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB105-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB105	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/17/09	16:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	initial screening sample	
✓	3/3/10	10:40	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	10:40	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	10:40	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	10:40	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second field screening sample during lab sample collection	

General Observations and Notes

BTEC 11/17/09 - HIGH 124SA Tube: 50cc-light tea-colored stain 150-175, lighter stain 50-150, lighter stain 175-200; 100cc-light stain 150-175 with stain becoming significantly darker at 175, stain intensity decreases to 225 ppm line, 175 ppm line has the darkest stain; 200cc-Another dark stain appears 400-500, above detection line there is a light stain, now a light stain at 175 ppm line, stain increases intensity to 350 ppm line. 105 Tube: Not Tested.
********** BTEC 3/3/10 - HIGH 122 Tube: 50cc: low stain trace-150, medium stain 150-175, dark stain 175-225, low stain 225-250; 100cc: low stain 150-200, medium stain 200-275, dark stain 275-offscale. Wet look at trace line. After approximately 1 minute, trace-250 turned light pink. 105 Tube: 50cc: dark stain just above trace line; 100cc: dark stain trace to just below 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB106-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB106	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB107-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB107	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB108-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB108	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/24/09	09:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/24/09	09:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	09:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	09:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

B-Tec Notes (GW and Soil screening) 11/24/09 - HIGH GROUNDWATER 124SA: 50cc-ND; 100cc-ND, wet look below trace, crystal pathway to 10 ppm; 200cc-low stain 50-100 ppm line, wet look to 10 ppm line, crystal pathway to 25 ppm line. 105 Tube: 50cc-low stain just above trace line; 100cc-high stain from trace to just below 200 ppm line; 200cc-high stain from trace to 350 ppm line.
****
SOIL 124SA Tube: 50cc-low stain 50-250 ppm line, medium stain 250-above detection line; 100cc-low

stain 50-250, dark stain 250-450 ppm line, medium stain 450-above detection line. 105 Tube: 50cc-instant high dark stain from trace line-600 ppm line, medium stain 600-800 ppm line; 100cc-dark stain trace-1000 ppm line, medium stain 1000-1300 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB109-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB109	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/18/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	
✓	3/4/10	12:15	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	second screening sample collection	
✓	3/4/10	12:15	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	12:15	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	12:15	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

BTEC 11/18/09 - HIGH 124SA Tube: 50cc-medium stain 50-75 ppm line, low stain 75-100 ppm line; 100cc-low stain 50-70 ppm line, dark/high stain 70-90 ppm line, low stain 90-100 ppm line; 200cc-

low stain 50-125 ppm, dark/high stain 150-175 ppm line, medium stain 175-200 ppm line. 105 Tube: 50cc-instant high stain just above trace line; 100cc-dark stain to just below 200 ppm line; 200cc- dark stain from trace to approximately 300 ppm line.
********** BTEC 3/4/10 - MEDIUM TO HIGH 122 Tube: 50cc:low stain trace-150, medium stain 150-250, dark stain 250-300; 100cc: low stain on entire column with a dark stain offscale, wet look at trace line. After approximately 1 minute, the entire column had turned a light pink. 105 Tube: 50cc: dark stain trace-halfway to 200 ppm line; 100cc: dark stain trace-200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB110-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB110	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB111-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB111	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/18/09	15:05	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/4/10	11:20	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	second screening sample during lab sample collection	
✓	3/4/10	11:20	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	11:20	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	11:20	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

BTEC 11/18/09 - HIGH 124SA Tube: 50cc-immediate dark stain 100-125 ppm line, low stain 125-175 ppm line; 100cc- medium stain 100-145 ppm, high/dark stain 150-170 ppm, low stain 170-200 ppm line, wet look just above trace line; 200cc-low stain 100-145, medium stain 150-170, low staining 170-350, dark/high stain 350-450, medium stain 450-500 ppm line, low stain 500 to above detection line. 105 Tube: 50cc-instant dark staining to 200 ppm line; 100cc-dark staining from trace to 200 ppm line; 200cc-dark staining from trace line to 400 ppm line.
********** BTEC 3/4/10 - MEDIUM 122 Tube: 50cc:low stain trace-75, dark stain 75-125, low stain 125-150; 100cc: low stain 50-100, dark stain 100-150 centering on 125 ppm, low stain 150-175, wet look at trace line. 105 Tube: 50cc: dark stain at trace line; 100cc: dark stain just above trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB112-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB112	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB113-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB113	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB114-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB114	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/24/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/24/09	11:15	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/24/09	11:15	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	11:15	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	11:15	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB115-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB115	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB116-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB116	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB117-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB117	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB118-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB118	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/6/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/19/09	12:25	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/6/10	10:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	second screening sample	
✓	3/6/10	10:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/6/10	10:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	10:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

B-Tec 11/18/09 - HIGH 124SA Tube: 50cc-immediate medium brown stain 125-175 ppm line and a low light tan stain from 175-200 ppm line; 100cc-medium tan staining 100-200 ppm line; 200cc-medium tan staining immediately from 50 ppm line to offscale then decreasing in color to low slight

staining from 50 ppm to offscale. After approximately 10 minutes, the entire column has turned a light shade of pink. 105 Tube: 50cc-immediate dark brown stain from trace to just below 400 ppm line (approx. 380 ppm); 100cc-dark brown stain from trace to 400 ppm line; 200cc-dark brown stain from trace to 600 ppm line.
********** BTEC
3/6/10 122 Tube: 50cc: low stain 50-100; 100cc: low stain 50-100, dark stain 100-150, low stain 150-175, wet look at trace line. 105 Tube: 50cc: low stain at trace line; 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB119-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB119	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/6/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/19/09	14:05	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/6/10	11:15	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	second screening sample	
✓	3/6/10	11:15	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/6/10	11:15	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	11:15	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

B-Tec 11/19/09 - HIGH 124SA Tube: 50cc-immediate low level stain 100-225 ppm line, high/dark brown stain 225-275 ppm, low level light stain 275- 325 ppm line; 100cc-medium tan stain 225-325 ppm line, dark brown stain 350-375, medium stain becoming light 275-450 ppm line; 200cc-light low

stain 225-325, medium stain 350-375, light low stain 375-offscale. After approximately 10 minutes, the interval 50 ppm-offscale becomes a light pink. 105 Tube: 50cc-instant dark brown stain from trace to 200 ppm line; 100cc- dark stain trace to 200 ppm line with low light stain to just above 200 ppm line; 200cc-dark brown stain from trace to 400 ppm line.
********** BTEC 3/6/10 122 Tube: 50cc: low stain 20-125, dark stain 125-150, low stain 120-200; 100cc: medium stain 125-200, dark stain 200-225, low stain 225-250, wet look at trace. After approximately 1 minute, trace-150 turned light pink. 105 Tube: 50cc: dark stain trace-200; 100cc: dark stain trace-200.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB120-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB120	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB121-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB121	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB122-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB122	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/19/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	11:42	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/20/09	11:42	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/20/09	11:42	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/20/09	11:42	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB123-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB123	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/20/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	09:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB124-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB124	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/6/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	09:32	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/6/10	14:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/6/10	14:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	14:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	14:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	

General Observations and Notes

B-Tec 11/20/09 - HIGH 124SA Tube: 50cc-immediate medium brown stain 150-175 with low light stain 175-225 ppm line; 100cc-medium stain 150-250 ppm, dark brown stain 250-275, medium 275-

300 and light stain 300-325 ppm line, wet look and crystals to 10 ppm line; 200cc-medium stin 250-275 ppm, light staining 275-offscale with very dark brown stain at the end of the column offscale, wet look and crystals to 10 ppm line. After approximately 10 minutes, trace-325 ppm has turned light pink, 325-offscale is light medium brown, dark stain remains at end of column. 105 Tube: 50cc-instant dark brown stain trace-200ppm; 100cc-no change from 50cc; 200cc-dark brown stain trace-300 ppm line with medium brown stain 300-400 ppm line.
********** BTEC 3/6/10 122 Tube: 50cc: light low stain 20-50 ppm; 100cc: low stain 30-75 (slightly darker than 50cc pull), wet look at trace line. 105 Tube: 50cc: ND; 100cc: slight low stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB125-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB125	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	10:10	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB126-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB126	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	10:55	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB127-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB127	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/20/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	11:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB128-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB128	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	13:25	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening samples	
✓	3/5/10	15:20	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	15:20	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	15:20	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	15:20	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	

General Observations and Notes

B-Tec 11/20/09 - HIGH 124SA Tube: 50cc-immediate light staining 100-225 ppm line increasing to medium 225-250 ppm, dark brown stain 275-300, medium 300-325 ppm line; 100cc-light low stain 200-275 ppm, medium staining 275-400 ppm, dark brown stain 400-500 ppm, slightly offscale is a

medium brown stain; 200cc- low light stain 275-400, medium stain 400-475 ppm, 500-offscale has a low light stain. After approximately 10 minutes, the entire column has turned a light pink. 105 Tube: 50cc-immediate dark staining trace-200 ppm line; 100cc-dark staining trace-300 ppm line; 200cc-dark staining trace-400 ppm line.
********** B-Tec 3/5/10 - MEDIUM 122 Tube: 50cc: low stain trace-150, low stain becoming darker 150-250, dark stain 250-275, low stain 275-300; 100cc: low stain 200-300, dark stain offscale, wet look at trace line. After approximately 1 minute, trace-250 turned light pink. 105 Tube: 50cc: dark stain trace-200; 100cc: dark stain trace-200.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB129-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB129	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	14:05	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/24/09	13:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	13:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	13:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB130-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB130	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	14:35	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB131-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB131	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	15:17	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB132-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB132	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/24/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/20/09	15:37	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/24/09	14:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	14:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	14:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB133-UNUSED-GW Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB133	**Modified By**	Gary Braganza
WBS Code #				**Modified Date**	11/21/09
QA Sample Type		**Sampled By**	Gary Braganza	**Printed By**	Derrick Haltiwanger
Status	Working	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	09:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB134-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB134	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	09:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/24/09	15:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	15:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	15:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB135-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB135	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	09:58	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB136-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB136	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	10:35	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB137-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB137	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/7/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	11:15	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/7/10	13:40	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/7/10	13:40	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	13:40	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	13:40	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	

General Observations and Notes

B-Tec 11/21/09 - MEDIUM to HIGH 124SA Tube: 50cc-immediate light low staining 30-50 ppm; 100cc-light stain 30-50 ppm, dark stain 50-60 ppm line, light stain 60-100 ppm line; 200cc-medium stain 50-

75 ppm, dark stain 75-100 ppm, light stain 100-150 ppm, wet look and crystals trace-10 ppm line.
105 Tube: 50cc-ND; 100cc-light stain trace-200 ppm line; 200cc-dark stain trace-300 ppm line.
********** BTEC
3/7/10 Tube 122: 50cc: ND; 100cc: ND, wet look at trace line 105 Tube: 50cc: ND; 100cc: ND, wet look at trace line

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB138-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB138	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	11:45	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB139-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB139	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	12:10	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB140-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB140	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	12:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB141-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB141	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	12:45	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB142-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB142	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/21/09	13:14	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	3/1/10	13:10	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/1/10	13:10	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	13:10	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	13:10	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second set of profile samples collected during lab sampling event	

General Observations and Notes

B-Tec field screening run on groundwater profile sample: Date = 11/29/2009 Time = 13:25 122 Tube Observations = 50cc-light staining 50-125 ppm line, dark stain 125-15-, medium stain becoming low 150-175 ppm; 100cc-medium staining 125-175, dark stain 175-225, light stain 225-250 ppm; 200cc-medium stain 175-225, light stain 225-350, medium stain 350-400, dark stain 400-500 ppm, 500-offscale medium stain, wet look and crystals just above trace line. After approximately 10 minutes the 100-300 ppm column had turned light pink. 105 Tube Observations = 50cc-dark stain trace-200 ppm, 100cc-dark stain trace-200 ppm; 200cc-dark stain trace-400 ppm line. B-Tec field screening run on groundwater profile sample (2nd run during sampling): Date = 3/2/2010 Time = 13:20 122 Tube Observations = 50cc: dark stain 50-75, low stain 75-125; 100cc: dark stain 50-100, low stain 100-150, wet look at trace line. 105 Tube Observations = 50cc: dark stain at trace line; 100cc: dark stain trace to halfway to 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB143-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB143	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/22/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	09:25	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB144-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB144	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	09:40	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		ED00000109-4
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB145-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB145	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	10:10	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB146-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB146	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/22/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	10:25	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB147-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB147	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	10:50	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	11/24/09	12:15	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-3
✓	11/24/09	12:15	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-3
✓	11/24/09	12:15	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-3

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB148-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB148	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	11:25	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB149-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB149	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	11:35	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB150-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB150	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	11:50	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB151-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB151	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/6/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	12:10	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/6/10	14:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/6/10	14:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	14:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	14:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample during lab sample collection	

General Observations and Notes

B-Tec 11/22/09 - MEDIUM to HIGH 124SA Tube: 50cc: low staining 30-50 ppm 100cc: dark stain 50-75 ppm, low stain 75-100 ppm, wet look and crystals just above trace 200cc: low stain 50-100 ppm, dark staining 100-125 ppm, medium becoming low 125-150 ppm, wet look and crystals trace-10 ppm line. 105 Tube: 50cc: low staining just above trace line 100cc: dark staining trace to halfway to 200 ppm line 200cc: dark staining from trace-200 ppm line.
********** BTEC 3/6/10 122 Tube: 50cc: ND; 100cc: light low stain 20-50, wet look at trace line. 105 Tube: 50cc: light low stain at trace; 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB152-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB152	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/22/09	12:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB153-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB153	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	09:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB154-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB154	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	09:20	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	3/1/10	15:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/1/10	15:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	15:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	15:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second set of profile samples collected during lab sampling event	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB155-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB155	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	09:40	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	3/1/10	14:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/1/10	14:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	14:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	14:50	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second set of profile samples collected during lab sampling event	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB156-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB156	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	10:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB158-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB157	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	10:20	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB158-UNUSED-GW Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB158	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**	Gary Braganza	**Printed By**	Derrick Haltiwanger
Status	Working	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	10:40	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB159-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB159	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	11:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	3/1/10	12:25	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/1/10	12:25	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	12:25	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	12:25	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second set of profile samples collected during lab sampling event	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB160-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB160	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	11:20	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB161-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB161	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	11:40	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	3/1/10	16:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/1/10	16:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	16:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/1/10	16:50	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second set of profile samples collected during lab sampling event	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB162-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB162	**Modified By**	Gary Braganza
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	11/23/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB163-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB163	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	13:30	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB164-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB164	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/7/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	13:50	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials	first screening sample	
✓	3/7/10	10:15	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/7/10	10:15	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	10:15	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	10:15	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	

General Observations and Notes

B-Tec 11/23/09 - LOW to MEDIUM 124SA Tube: 50cc-low light stain 10-30 ppm line; 100cc-medium stain 20-40 ppm, wet and crystals just above trace line; 200cc- medium stain 40-50 ppm, light stain

50-75 ppm, wet look and crystals trace-10 ppm line. 105 Tube: 50cc-ND, wet look just above trace line; 100cc-light staining just above trace line; 200cc- dark staining just above trace line.
********** BTEC 3/7/10 122 Tube: 50cc: light low stain 30-50 ppm; 100cc: low stain 30-50 (slightly darker than 50cc). 105 Tube: 50cc: low stain at trace line; 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB165-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB165	**Modified By**	
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/23/09	14:10	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB166-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB166	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	12/11/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/10/09	10:25	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	12/10/09	10:25	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-4
✓	12/10/09	10:25	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-4
✓	12/10/09	10:25	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-4

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB167-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/19/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB167	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	12/11/09
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/10/09	11:05	B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✓	12/10/09	11:05	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-4
✓	12/10/09	11:05	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-4
✓	12/10/09	11:05	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-4

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB168-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	11/23/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB168	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	4	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB169-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB169	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB170-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB170	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB171-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB171	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB172-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB172	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB173-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB173	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB174-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB174	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB175-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB175	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB176-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB176	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB177-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB177	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB178-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	12/10/09
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB178	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB179-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB179	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB180-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB180	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB181-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB181	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB182-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB182	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB183-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB183	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB184-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB184	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB185-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB185	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB186-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB186	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB187-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB187	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB188-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB188	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB189-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB189	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB190-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB190	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB191-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB191	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB192-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB192	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB193-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB193	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB194-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB194	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/7/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/7/10	15:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/7/10	15:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/7/10	15:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	15:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

BTEC 3/7/10 122 Tube: 50cc: light low stain 20-50; 100cc: light low stain 20-50, wet look at trace. 105 Tube: 50cc: low stain at trace; 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB195-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB195	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB196-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB196	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB197-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB197	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB198-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB198	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB199-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB199	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB200-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB200	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB201-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB201	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB202-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB202	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB203-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB203	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB204-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB204	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB205-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB205	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB206-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB206	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB207-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB207	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB208-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB208	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB209-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB209	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB210-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB210	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB211-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB211	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/5/10	14:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening locations	
✓	3/5/10	14:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	14:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	14:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

BTEC 3/5/10 122 Tube: 50cc: light low stain 20-50 ppm; 100cc: low stain 30-75 (slightly darker than 50cc pull), wet look at trace line. 105 Tube: 50cc: light stain at trace; 100cc: dark stain at trace line

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB212-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB212	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/5/10	14:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second field screening sample	
✓	3/5/10	14:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	14:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	14:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

BTEC 3/5/10 122 Tube: 50cc: very light low stain 20-50; 100cc: low stain 20-50 (slightly darker than 50cc), wet look at trace line. 105 Tube: 50cc: ND; 100cc: light stain at trace line

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB213-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB213	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB214-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB214	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB215-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB215	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/7/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/7/10	10:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/7/10	10:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/7/10	10:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	10:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

B-Tec 12/15/09 - HIGH 124SA Tube: 200cc: dark staining from 50ppm line to off-scale end of tube 105 Tube: 200cc: up to 200ppm line with dark stain
********** BTEC 3/7/10 122 Tube: 50cc: light low stain 20-50; 100cc: light low stain 20-50, wet look at trace. 105 Tube: 50cc: ND; 100cc: low stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB216-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB216	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB217-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB217	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB218-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB218	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB219-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB219	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB220-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB220	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB221-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB221	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/7/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/7/10	09:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/7/10	09:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/7/10	09:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	09:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

B-Tec 12/16/09 - ND to TRACE 124SA Tube: 50cc to 200cc: starting trace to light brown and moving up scale of tube with pulls 105 Tube: 50cc to 200cc: trace wet look with no brown staining ********** BTEC 3/7/10 122 Tube: 50cc: light low stain 30-60; 100cc: low stain 30-60 (slightly darker than 50cc) 105 Tube: 50cc: ND; 100cc: light low stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB222-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB222	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB223-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB223	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB224-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB224	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB225-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB225	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/4/10	16:20	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/4/10	16:20	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	16:20	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	16:20	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	

General Observations and Notes

BTEC 3/4/10 122 Tube: 50cc: low stain 50-100; 100cc: low stain 50-75, dark stain 75-100, low stain 100-125, wet look at trace line. 105 Tube: 50cc: dark stain at trace line; 100cc: dark stain at trace

line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB226-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB226	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB227-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB227	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB228-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB228	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB229-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB229	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB230-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB230	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB231-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB231	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB232-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB232	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB233-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB233	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB234-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB234	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB235-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB235	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB236-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB236	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB237-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB237	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB238-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB238	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB239-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB239	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/17/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/2/10	15:40	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/2/10	15:40	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	15:40	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	15:40	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second sample collected for lab analysis	

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB240-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB240	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/17/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/3/10	08:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	08:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	08:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	08:50	B-Tec/ColorTec	BTEX Headspace Purge	4°C	2	Glass - Clear	40ml vials	second sample for lab sampling	

General Observations and Notes

BTEC 3/3/10 122 Tube: 50cc: low stain 20-75, dark stain 75-125 centering on 100 ppm; 100cc: low

stain 50-125, dark stain 125-150, low stain 150-175, wet look at trace line. 105 Tube: 50cc: dark stain at trace line; 100cc: dark stain just above trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB241-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB241	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/17/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	screening sample for B-Tec	
✓	3/3/10	14:50	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample for lab analysis	
✓	3/3/10	14:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	14:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	14:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6

General Observations and Notes

B-Tec from first screening: 12/17/2009 124SA = ND 105 = ND BTEC 3/3/10 122 Tube 50cc: light low

stain 30-75 ppm; 100cc: dark stain 50-75, low stain 75-100, wet look at trace line. 105 Tube 50cc: ND; 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB242-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB242	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/17/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	
✓	3/3/10	15:40	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample during lab sample collection	
✓	3/3/10	15:40	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	15:40	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	15:40	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6

General Observations and Notes

B-Tec field screening run on groundwater profile sample: Date = 12/17/2009 - LOW to MEDIUM 124SA Tube Observations = 50cc: light staining around the 50ppm line; stain darkers at 100cc and 20cc pulls, with darker area moving to the 100ppm area. 105 Tube Observations = trace to low hit, with 50cc slight staining at trace interval, increasing trace level with 100cc and 200cc pulls (staining more to wet-look than brown). BTEC 3/3/10 122 Tube: 50cc: low stain trace-150, medium stain 150-200, dark stain 200-225, low stain 225-250; 100cc: low stain 150-200, medium stain 200-290, dark stain 290-offscale, wet look at trace line. After approximately 1 minute, trace-200 turned light pink. 105 Tube: 50cc: dark stain just above trace line; 100cc: dark stain trace to just below 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB243-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB243	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/19/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first field screening sample	
✓	3/4/10	09:05	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second field screening sample	
✓	3/4/10	09:05	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	09:05	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	09:05	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

BTEC 12/19/09 - HIGH 124SA Tube: 50cc: immediate low to moderate brown staining between 300ppm and 500ppm interval and pink staining in rest of column; 100cc: low stain on entire column

with brown interval at top end of scale in the 400 to 500 interval, brown decreasing in darkness with successive pulls; 200cc whole tube decreases in color to a light pink. 105 Tube: 50cc: immediate strong and dark stain from trace to 200 ppm line; 100cc: not much increase in interval but the stain darkens to very dark brown to almost black to the 200 ppm line; 200cc: darker and increases slightly to the 300ppm line. BTEC 3/4/10 122 Tube: 50cc: immediate low staining of entire column with dark stain offscale; 100cc: low stain on entire column, dark stain offscale, wet look at trace line. After approximately 1 minute, the entire column has turned light pink. 105 Tube: 50cc: dark stain trace-200 ppm; 100cc: dark stain (almost black) trace-200 ppm.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB244-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB244	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB245-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB245	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB246-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB246	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB247-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB247	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB248-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB248	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB249-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB249	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB250-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB250	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB251-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB251	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/19/09	13:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	
✓	3/4/10	15:15	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/4/10	15:15	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	15:15	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	15:15	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

******* Free Product observed in boring when first advanced on 12/19/2009. Approximately 3 to 4 inches inside of straw-method tubing when boring completed. Temporary piezometer placed in boring to gauge FP levels.

********** B-Tec 12/19/09 - VERY HIGH (Free Product Levels)
********** BTEC 3/4/10 122 Tube: 50cc: light low stain 20-150; 100cc: low stain 40-100 becoming lighter to 150 ppm line. 105 Tube: 50cc: dark stain just above trace line; 100cc: dark stain trace-halfway to 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB252-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB252	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB253-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB253	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB254-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB254	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB255-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB255	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB256-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB256	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB257-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB257	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB258-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB258	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB259-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB259	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB260-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB260	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB261-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB261	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB262-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB262	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB263-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB263	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB264-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB264	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB265-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB265	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB266-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB266	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB267-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB267	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	12/22/09	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/3/10	09:50	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/3/10	09:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	09:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	09:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6

General Observations and Notes

BTEC 3/3/10 122 Tube: 50cc: low stain trace-250, medium stain 250-300, dark stain 300-offscale; 100cc: low stain trace-300, dark stain 300-offscale, wet look at trace line. The entire column turned

light pink after approximately 30 seconds. 105 Tube: 50cc: dark stain trace-200 ppm; 100cc: dark stain trace-200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB268-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB268	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB269-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB269	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB270-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB270	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB271-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB271	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB272-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB272	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB273-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB273	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB274-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB274	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB275-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB275	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/4/10	15:50	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/4/10	15:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	15:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	15:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	

General Observations and Notes

BTEC 3/4/10 122 Tube: 50cc: low stain trace-200, dark stain 200-250, low stain 240-300; 100cc: low stain trace-225, medium stain 225-300, dark stain offscale, wet look at trace line. After approximately

1 minute, the entire column turned light pink. 105 Tube: 50cc: dark stain trace-just below 200 ppm line; 100cc: dark stain trace-200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB276-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB276	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB277-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB277	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB278-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB278	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB279-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB279	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB280-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB280	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB281-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB281	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB282-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB282	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB283-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB283	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB284-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB284	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB285-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB285	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB286-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB286	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB287-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB287	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB288-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB288	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB289-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB289	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB290-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB290	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB291-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB291	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB292-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB292	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB293-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB293	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB294-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB294	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB295-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB295	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB296-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB296	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/8/10	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	
✓	3/4/10	10:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/4/10	10:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	10:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	10:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

BTEC 1/11/10 - HIGH 124SA Tube: 50cc-immediate medium stain 50-120 ppm becoming light; 100cc-dark staining 50-120 ppm with darkest 60-75 ppm; 200cc- dark staining 180-220 ppm line becoming lighter to 300 ppm line. 105 Tube: 50cc-light stain trace to 50 ppm line; 100cc- dark stain trace - 50

ppm line; 200cc- dark stain trace-150 ppm line. BTEC 3/4/10 122 Tube: 50cc: low stain trace-75, dark stain 75-100, low stain 100-125; 100cc-low stain trace-75, medium stain 75-100, dark stain 100-125, low stain 125-150, wet look at trace line. 105 Tube: 50cc: dark stain at trace line; 100cc: dark stain just above trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB297-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB297	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB298-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB298	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB299-UNUSED-KWTFS-SB299	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB299	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB300-UNUSED-KWTFS-SB300	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB300	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB301-UNUSED-KWTFS-SB301	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB301	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB302-UNUSED-KWTFS-SB302	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB302	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB303-UNUSED-KWTFS-SB303	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB303	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB304-UNUSED-KWTFS-SB304	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB304	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB305-UNUSED-KWTFS-SB305	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB305	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB306-UNUSED-KWTFS-SB306	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB306	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB307-UNUSED-KWTFS-SB307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB307	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB308-UNUSED-KWTFS-SB308	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB308	**Modified By**	
WBS Code #				**Modified Date**	
QA Sample Type		**Sampled By**		**Printed By**	Derrick Haltiwanger
Status	New	**Concentration**		**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB309-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB309	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/11/10	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/3/10	11:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample during lab sampling	
✓	3/3/10	11:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	11:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	11:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6

General Observations and Notes

BTEC 3/3/10 122 Tube: 50cc: low stain trace-125, dark stain 125-175, low stain 175-200; 100cc: low

stain 100-150, medium stain 150-200, dark stain 200-250, low stain 250-275, wet look at trace line. After approximately 5 minutes, trace-100 turned light pink. 105 Tube: 50cc: dark stain trace-just above trace line; 100cc: dark stain trace-halfway to 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB310-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB310	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB311-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB311	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB312-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB312	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB313-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB313	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB314-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB314	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB315-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB315	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/4/10	10:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/4/10	10:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	10:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	10:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

BTEC 3/4/10 122 Tube: 50cc: low stain trace-100, dark stain 100-150, low stain 150-200; 100cc: low stain trace-100, medium stain 100-175, dark stain 175-225, low stain 225-250, wet look at trace line. After approximately 5 minutes, trace-150 ppm turned light pink. 105 Tube: 50cc: dark stain just above trace line; 100cc: dark stain trace-halfway to 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB316-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB316	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB317-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB317	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB318-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB318	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB319-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB319	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB320-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB320	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB321-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB321	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB322-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB322	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB323-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB323	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB324-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB324	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB325-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB325	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB326-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB326	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB327-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB327	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	1/13/10	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/3/10	12:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample during lab sample collection	
✓	3/3/10	12:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-6
✓	3/3/10	12:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-6
✓	3/3/10	12:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-6

General Observations and Notes

B-Tec field screening run on groundwater profile sample: Date = 1/13/2010 Time = 15:06 124SA Tube Observations = 50cc-light low stain 50-150 ppm, dark stain 150-175 ppm, low stain 175-200 ppm; 100cc- low stain 50-150 ppm, medium stain 150-175 ppm, dark stain 175-225 ppm centering on 200 ppm line, wet look at trace line. Trace-100 ppm turned pink after approximately 10 minutes. 105 Tube Observations = 50cc-dark stain at trace line; 100cc- dark stain trace-200 ppm line. B-Tec field screening run on groundwater profile sample (2nd run during sampling): Date = 3/4/2010 Time = xx:xx 122 Tube Observations = xxx. 105 Tube Observations = xxx. BTEC 3/3/10 122 Tube: 50cc: low stain 20-150, dark stain 150-200, low stain 200-250; 100cc: low stain 100-150, medium stain 150-250, dark stain 250-275, low stain 275-300, wet look at trace line. 105 Tube: 50cc: dark stain just above trace line; 100cc: dark stain trace to just below 200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB328-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/3/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB328	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB329-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB329	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB330-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB330	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB331-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB331	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB332-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB332	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB333-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB333	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB334-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB334	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB335-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB335	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB336-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB336	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB337-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB337	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB338-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB338	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB339-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB339	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB340-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB340	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB341-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB341	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB342-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB342	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB343-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB343	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB344-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB344	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB345-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB345	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB346-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB346	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/6/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/6/10	13:35	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second field screening sample	
✓	3/6/10	13:35	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials	Only 2 40mL vials will be shipped. One vial containing sample was broken during packaging.	ED00000109-9
✓	3/6/10	13:35	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	13:35	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

B-Tec 1/15/10 - MEDIUM to HIGH 124SA Tube: 50cc-low stain 75-175, dark stain 175-200 ppm, low stain 200-275 ppm line; 100cc- low light stain 175-275 ppm, dark stain 275-300 ppm, low stain 300-375 ppm, wet look at trace line. Trace-200 turned light pink after approximately 5 minutes.
****
BTEC 3/6/10 122 Tube: 50cc:low stain 50-100, dark stain 100-150, low stain 150-175; 100cc: low stain 100-150, dark stain 150-200, low stain 200-225, wet look at trace. After approximately 1 minute, trace-150 turned light pink. 105 Tube: 50cc: dark stain trace-just below 200 ppm line; 100cc: dark stain trace-200 ppm line. 105 Tube: 50cc-dark stain trace-just below 200 ppm line; 100cc- dark stain trace-200 ppm line.
****

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB347-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB347	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB348-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB348	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB349-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB349	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB350-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB350	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/4/10	12:45	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		
✓	3/4/10	12:45	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	12:45	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	12:45	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7

General Observations and Notes

B-Tec 1/15/2010 - ND to TRACE 124SA: 50cc-low stain 30-50 ppm; 100cc-low stain 30-50 ppm line, wet look at trace line. 105: Not Tested BTEC 3/4/10 122 Tube: 50cc: ND; 100cc: ND, wet look at trace line 105 Tube: 50cc: ND; 100cc: ND

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB351-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB351	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB352-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB352	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB353-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB353	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB354-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB354	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB355-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB355	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB356-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB356	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB357-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB357	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB358-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB358	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB359-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB359	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB360-UNUSED-Profile	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB360	**Modified By**	
WBS Code #		**Sampled By**		**Modified Date**	
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	New			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB361-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB361	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/5/10	11:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first field screening sample	
✓	3/5/10	11:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	11:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	11:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/25/10 - ND 122 Tube: 50cc to 20cc: ND 105 Tube: 50cc to 200cc: ND ********** B-Tec 3/5/10 - TRACE 122 Tube: 50cc: light low stain 30-75 100cc: low stain 30-75 (slightly darker than 50cc pull) with wet look at trace line. 105 Tube: 50cc: ND 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB362-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB362	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/6/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	2/25/10	12:05	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	
✓	3/6/10	09:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/6/10	09:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/6/10	09:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/6/10	09:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9

General Observations and Notes

B-Tec 2/25/10 - ND to TRACE 122 Tube: 50cc to 200cc: ND 105 Tube: 50cc to 100cc: ND; very low response but definative at 200cc pull in the trace range.
****

BTEC 3/6/10 122 Tube: 50cc: ND; 100cc; ND, wet look at trace line. 105 Tube: 50cc: ND; 100cc: ND
****

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB363-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB363	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB364-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB364	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB365-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB365	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/5/10	13:10	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second field screening sample	
✓	3/5/10	13:10	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	13:10	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	13:10	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/25/10 - LOW 122 Tube: 50cc: med brown in 30-50 interval; 100cc darker in same interval 105 Tube: 50cc: med-dark brown fine line at trace internal; 100cc - line darker but still thin. ********** BTEC 3/5/10 122 Tube: 50cc: ND; 100cc: ND, wet look at trace line 105 Tube: 50cc: light stain at trace; 100cc: light stain at trace line

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB366-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB366	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB367-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB367	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB368-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB368	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB369-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB369	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/5/10	09:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample during lab sample collection	
✓	3/5/10	09:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	09:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	09:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/25/10 - HIGH 124SA Tube: 50cc - enter notes from Gary 105 Tube: 50cc - immediate dark discoloration up to the 200ppm line 100cc: Not Tested
********** B-Tec

3/5/10 122 Tube: 50cc: low stain 20-100, dark stain 100-150, low stain 150-200; 100cc: low stain 50-125, medium stain 125-150, dark stain 150-200, low stain 200-225, wet look at trace. 105 Tube: 50cc: dark stain at trace line; 100cc: dark stain trace-200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB370-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB370	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB371-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB371	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB372-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB372	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB373-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB373	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB374-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB374	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB375-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB375	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB376-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB376	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB377-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB377	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB378-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB378	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	2/26/10	10:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first field screening sample	
✓	3/5/10	11:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/5/10	11:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	11:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	11:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/26/10 - MEDIUM 122 Tube: 50cc: immediate dark discoloration from 10-150ppm and lighter discoloration from 150-200ppm. 100cc: discoloration moves to 150-200ppm interval and darkens substantially, lighter discoloration from 200-250ppm.

********** BTEC 3/5/10 122 Tube: 50cc: low stain 100-150; dark stain 150-200, low stain 200-250; 100cc: low stain 150-225, dark stain 225-250, low stain 250-300, wet look at trace. After approximately 1 minute, trace-200 turned light pink. 105 Tube: 50cc: dark stain trace-just below 200; 100cc: dark stain trace-200 ppm line. 105 Tube: 50cc: quick discoloration to 75ppm 100cc: discoloration increases to 100ppm **********

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB379-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB379	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB380-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB380	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB381-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB381	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	2/27/10	12:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	first screening sample	
✓	3/5/10	09:55	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/5/10	09:55	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	09:55	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	09:55	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/27/10 - TRACE TO LOW 124SA Tube: 50cc: immediate discoloration from 20 to 50ppm line with darker discoloration to 100ppm. 100cc: discoloration darkens slightly. 105 Tube: 50cc: dark discoloration to approx 75ppm 100cc: discoloration increases to approx 100ppm line.

********** B-Tec 3/5/10 - LOW TO MEDIUM 122 Tube: 50cc: light low stain 20-100 ppm 100cc: light low stain 20-250 ppm, wet look at trace. 105 Tube: 50cc: dark stain trace to 200ppm line. 100cc: dark stain trace to200ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB382-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB382	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB383-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB383	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	2/27/10	10:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	initial field screening sample	
✓	3/5/10	09:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second field screening sample	
✓	3/5/10	09:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	09:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	09:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/27/10 - VERY HIGH 105: 800ppm max
********** BTEC 3/5/10 -

TRACE to LOW 122 Tube: 50cc: light low stain 20-50; 100cc: low stain 20-50, slightly darker than 50cc pull, wet look at trace line. 105 Tube: 50cc:dark stain just above trace line; 100cc: dark stain just above trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB384-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB384	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB385-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB385	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB386-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB386	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	2/27/10	11:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	initial screening sample	
✓	3/5/10	10:20	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	
✓	3/5/10	10:20	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-8
✓	3/5/10	10:20	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-8
✓	3/5/10	10:20	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-8

General Observations and Notes

B-Tec 2/27/10 - NON-DETECT 124SA Tube: 50cc to 200cc - ND 105 Tube: 50cc to 20cc - ND ********** B-Tec 3/5/10 - ND to TRACE 122 Tube: 50cc: ND; 100cc: light low stain 20-50, wet look at trace line.

105 Tube: 50cc: dark stain at trace line; 100cc: dark stain at trace line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB387-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/4/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB387	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/5/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB388-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB388	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB389-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB389	**Modified By**	Derrick Haltiwanger
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/7/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/7/10	13:25	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-9
✓	3/7/10	13:25	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	13:25	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-9
✓	3/7/10	13:25	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample	

General Observations and Notes

*** NOTE - review this and SB390 data for reconcile and switch (JSW note) B-Tec: 2/27/10 - TRACE to LOW 122 Tube: 50cc to 100cc: ND 105 Tube: 50cc: very light discoloration to the 75ppm line 100cc: no further reaction
********** BTEC 3/7/10 122 Tube: 50cc: ND; 100cc: ND, wet look at trace line 105 Tube: 50cc: ND; 100cc: ND, wet

look at trace line

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB390-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB390	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/4/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	2/27/10	15:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	initial field screening	
✓	3/4/10	14:50	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-7
✓	3/4/10	14:50	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	14:50	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-7
✓	3/4/10	14:50	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials	second screening sample during lab sampling	

General Observations and Notes

B-Tec 2/27/10 - VERY HIGH 122 Tube: 50cc: immediate discoloration (pink) along entire length of

tube, darker discoloration at 250ppm line and greater. 100cc: discoloration turns lighter and longer along entire length. 105 Tube: 50cc: immediate dark discoloration up to 1,500ppm line with discoloration extending to 2,500ppm. 10cc: dark discoloration extends to off-scale (>3,000ppm line). ********** BTEC 3/4/10 122 Tube: 50cc: low stain trace-75, medium stain 75-125, low stain 125-250; 100cc: low stain 75-100, dark stain 100-150, low stain 150-300, wet look at trace line. 105 Tube: 50cc: dark stain trace-just below 200 ppm line; 100cc: dark stain trace-200 ppm line.

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB391-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB391	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB392-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB392	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/3/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✗			SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		
✗			SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		
✗			FL-PRO	TRPH	4°C	2	Glass - Amber	1L		
✗			B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB393-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB393	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/2/10	09:30	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/2/10	09:30	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	09:30	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	09:30	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB394-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB394	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/2/10	10:20	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/2/10	10:20	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	10:20	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	10:20	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB395-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB395	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/2/10	11:00	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/2/10	11:00	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	11:00	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	11:00	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB396-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB396	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/2/10	11:35	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/2/10	11:35	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	11:35	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	11:35	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	KWTFS-SB397-GW-0307	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	3/2/10
Task/Contract #	0105	**Sample Location ID**	KWTFS-SB397	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**		**Printed By**	Derrick Haltiwanger
Status	Working			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	3/2/10	12:25	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4° C/HCL	3	Glass - Clear	40ml vials		ED00000109-5
✓	3/2/10	12:25	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	12:25	FL-PRO	TRPH	4°C	2	Glass - Amber	1L		ED00000109-5
✓	3/2/10	12:25	B-Tec/ColorTec	BTEX Headspace Purge	None	2	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-902C-MW-01-1009	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	10/28/09
Task/Contract #	0105	**Sample Location ID**	TFS-902C-MW-01	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
10/31/09	09:07	0.70	150	Slightly Turbid	0	0	0	0	0	0	0	0	0
10/31/09	09:54	0.81	150	Slightly Turbid	7.13	4.168	0.20	60.2	32.40	-316	na		7050
10/31/09	09:57	0.81	150	Slightly Turbid	7.13	4.177	0.20	56.2	32.39	-316.0	na		450
10/31/09	09:59	0.81	150	Slightly Turbid	7.13	4.184	0.20	57.7	32.38	-318.2	na		300
10/31/09	10:02	0.81	150	Slightly Turbid	7.13	4.192	0.19	57.4	32.39	-320.2	na		450

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	10/31/09	10:05	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	10/31/09	10:05	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	10:05	FL-PRO	TRPH	4°C/H2SO4	2	Glass -	1L		ED00000109-

							Amber			1
✓	10/31/09	10:05	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1
✓	10/31/09	10:05	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1
✓	10/31/09	10:05	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-902C-MW-02-1009	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	10/28/09
Task/Contract #	0105	**Sample Location ID**	TFS-902C-MW-02	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
10/31/09	10:10	0.61	150	Clear	0	0	0	0	0	00	0	0	0
10/31/09	10:10	0.61	150	Clear	0	0	0	0	0	00	0	0	0
10/31/09	10:43	0.73	150	Clear	7.09	5.263	0.30	12.9	33.01	-282.2	na		4950
10/31/09	10:46	0.72	50	Clear	7.08	5.259	0.22	10.4	33.06	-282.7	na		150
10/31/09	10:50	0.72	150	Clear	7.09	5.266	0.20	10.60	33.08	-283.2	na		600
10/31/09	10:51	0.72	150	Clear	7.09	5.264	0.17	11.3	33.10	-283.6	na		150

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	10/31/09	10:57	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	10/31/09	10:57	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	10:57	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	10:57	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1

✓	10/31/09	10:57	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1
✓	10/31/09	10:57	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-902C-MW-03-1009	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	10/28/09
Task/Contract #	0105	**Sample Location ID**	TFS-902C-MW-03	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
10/31/09	11:01	0.34	150	Clear	0	0	0	0	0	0	0	0	0
10/31/09	11:37	0.41	150	Clear	7.18	4.499	0.70	17.4	33.17	-243.5	na		5400
10/31/09	11:40	0.41	150	Clear	7.19	4.498	0.52	16.5	33.20	-244.1	na		450
10/31/09	11:41	0.41	150	Clear	7.17	4.485	0.46	16.4	33.18	-244.3	na		150
10/31/09	11:44	0.41	150	Clear	7.15	4.984	0.46	14.3	33.16	-244.3	NA		450

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	10/31/09	12:01	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	10/31/09	12:01	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	12:01	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	12:01	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1
	10/31/09	12:01	EPA 504.1	EDB	4°	3	Glass -	40ml		ED00000109-

✓					C/NA2S2O3		Clear	vials		1
✓	10/31/09	12:01	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-902C-MW-04-1009	**Created By**	John Wright
TtNUS Project #	112G01294			**Created Date**	10/28/09
Task/Contract #	0105	**Sample Location ID**	TFS-902C-MW-04	**Modified By**	John Wright
WBS Code #		**Sampled By**	Gary Braganza	**Modified Date**	3/2/10
QA Sample Type		**Concentration**	Low concentration	**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
10/31/09	12:05	0.33	150	Clear	0	0	0	0	0	0	0	0	0
10/31/09	12:40	0.45	150	Clear	7.15	4.414	1.15	13.2	33.73	-292.7	na		5250
10/31/09	12:43	0.43	150	Clear	7.15	4.410	0.94	15.3	33.71	-292.0	na		450
10/31/09	12:45	0.44	150	Clear	7.14	4.396	0.96	12.2	33.69	-292.5	na		300

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	10/31/09	12:46	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	10/31/09	12:46	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	12:46	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	10/31/09	12:46	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1
✓	10/31/09	12:46	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1

✓	10/31/09	12:46	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-MW-09-1109	**Created By**	John Wright
TtNUS Project #	112G01294	**Sample Location ID**	TFS-MW-09	**Created Date**	10/28/09
Task/Contract #	0105	**Sampled By**	Gary Braganza	**Modified By**	John Wright
WBS Code #		**Concentration**	Low concentration	**Modified Date**	3/2/10
QA Sample Type				**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/1/09	13:00	0.71	150	Clear	0	0	0	0	0	0	0	0	0
11/1/09	14:01	0.80	150	Slightly Turbid	7.41	0.985	0.99	48.6	32.77	-261.8	na		9150
11/1/09	14:03	0.80	150	Slightly Turbid	7.39	0.984	0.73	46.7	32.79	-262.4	na		300
11/1/09	14:05	0.80	150	Slightly Turbid	7.38	0.984	0.63	45.3	32.78	-262.6	na		300

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/1/09	14:10	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	14:10	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	14:10	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	14:10	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1

✓	11/1/09	14:10	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	14:10	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-MW-10-1109	**Created By**	John Wright
TtNUS Project #	112G01294	**Sample Location ID**	TFS-MW-10	**Created Date**	10/28/09
Task/Contract #	0105	**Sampled By**	Gary Braganza	**Modified By**	John Wright
WBS Code #		**Concentration**	Low concentration	**Modified Date**	3/2/10
QA Sample Type				**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/1/09	10:45	0.67	150	Clear	0	0	0	0	0	00	0	0	0
11/1/09	11:15	0.80	150	Slightly Turbid	7.45	2.471	0.45	58.0	31.07	-333.6	na		4500
11/1/09	11:17	0.80	150	Slightly Turbid	7.44	2.471	0.37	58.5	31.06	-330.9	na		300
11/1/09	11:21	0.80	150	Slightly Turbid	7.44	2.464	0.39	63.9	31.06	-331.6	na		0
11/1/09	11:21	0.80	150	Slightly Turbid	7.44	2.464	0.39	63.9	31.06	-331.6	na		0
11/1/09	11:21	0.80	150	Slightly Turbid	7.44	2.464	0.39	63.9	31.06	-331.6	na		600
11/1/09	11:21	0.80	150	Slightly Turbid	7.44	2.464	0.39	63.9	31.06	-331.6	na		0
11/1/09	11:21	0.80	150	Slightly Turbid	7.44	2.464	0.39	63.9	31.06	-331.6	na		0

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
				VOCs (incl						

✓	11/1/09	11:20	SW-846 5030B/8260	BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	11:20	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	11:20	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	11:20	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1
✓	11/1/09	11:20	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	11:20	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-MW-13-1109	**Created By**	John Wright
TtNUS Project #	112G01294	**Sample Location ID**	TFS-MW-13	**Created Date**	10/28/09
Task/Contract #	0105	**Sampled By**	Gary Braganza	**Modified By**	John Wright
WBS Code #		**Concentration**	Not known	**Modified Date**	3/2/10
QA Sample Type				**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/1/09	11:23	0.57	150	Clear	0	0	0	0	0	0	0	0	0
11/1/09	12:09	0.72	150	Slightly Turbid	7.41	4.484	0.26	71.8	33.00	-296.6	na		6900
11/1/09	12:11	0.72	150	Slightly Turbid	7.41	4.64	0.24	68.4	32.91	-299.8	na		300
11/1/09	12:13	0.72	150	Slightly Turbid	7.41	4.426	0.21	65.3	32.98	-300.2	na		300

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/1/09	12:17	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	12:17	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	12:17	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	12:17	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1

✓	11/1/09	12:17	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	12:17	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

Tetra Tech NUS, Inc.

GROUND WATER SAMPLING LOG

2009 Contamination Assessment - TFS - KEY WEST NAS

Project Information

Facility Name	KEY WEST NAS	**Sample ID #**	TFS-MW-14-1109	**Created By**	John Wright
TtNUS Project #	112G01294	**Sample Location ID**	TFS-MW-14	**Created Date**	10/28/09
Task/Contract #	0105	**Sampled By**	Gary Braganza	**Modified By**	John Wright
WBS Code #		**Concentration**	Low concentration	**Modified Date**	3/2/10
QA Sample Type				**Printed By**	Derrick Haltiwanger
Status	Complete			**Printed Date**	7/2/10

Purge Entries

Date	Time	Water Level (ft.)	Flow Rate (mL/min)	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTUs)	Temp °C	ORP (mV)	Salinity (%)	Other	Incremental Volume (mL)
11/1/09	12:40	0.43	150	Clear	0	0	0	0	0	0	0	0	0
11/1/09	13:16	0.65	150	Clear	7.22	1.992	0.51	18.6	33.64	-287.5	na		5400
11/1/09	13:18	0.65	150	Clear	7.22	1.996	0.48	16.3	33.63	-285.4	na		300
11/1/09	13:20	0.65	150	Clear	7.22	2.001	0.46	5.6	33.63	-285.6	na		300

Analysis Records

Collected	Date	Time	Analysis / Method	Description of Analysis	Preservative	Count	Type	Requirements	Comments	Chain#
✓	11/1/09	13:24	SW-846 5030B/8260	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials		ED00000109-1
✓	11/1/09	13:24	SW-846 8270C SIM	PAHs	4°C	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	13:24	FL-PRO	TRPH	4°C/H2SO4	2	Glass - Amber	1L		ED00000109-1
✓	11/1/09	13:24	EPA 239.2	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml		ED00000109-1
✓	11/1/09	13:24	EPA 504.1	EDB	4° C/NA2S2O3	3	Glass - Clear	40ml vials		ED00000109-1

✓	11/1/09	13:24	B-Tec/ColorTec	BTEX Headspace Purge	4°C	4	Glass - Clear	40ml vials		

General Observations and Notes

No Notes

- End of Report -

APPENDIX B

VALIDATION REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**C. BRYAN**	**DATE:**	**DECEMBER 15, 2009**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC / INORGANIC DATA VALIDATION – VOCs plus 1,2-DIBROMOETHANE, PAHs, TOTAL PETROLEUM HYDROCARBONS, METALS**
CTO 0105 NAS KEY WEST
SAMPLE DELIVERY GROUP (SDG) – F69228

SAMPLES: 9/Aqueous

TFS-902C-MW-01-1009	TFS-902C-MW-02-1009
TFS-902C-MW-03-1009	TFS-902C-MW-04-1009
TFS-MW-09-1109	TFS-MW-10-1109
TFS-MW-13-1109	TFS-MW-14-1109
TFS-TB-01-1109	

Overview

The sample set for NAS Key West, CTO 0105, SDG F69228, consists of eight (8) aqueous environmental samples and one (1) trip blank (TFS-TB-01-1109). No field duplicate pairs were included within this data package.

All samples with the exception of TFS-TB-01-1109 were analyzed for volatile organic compounds (VOCs) plus 1,2-dibromoethane, Polycyclic Aromatic Hydrocarbons (PAHs), total petroleum hydrocarbons (TPHs) and select metals including iron and lead. Sample TFS-TB-01-1109 was analyzed for VOCs only. The samples were collected by Tetra Tech NUS on October 31 and November 1, 2009 and analyzed by Accutest Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. VOC analyses were conducted using SW-846 method 8260B. The analyses of 1,2-dibromoethane was conducted using EPA method 504.1 PAH analyses were conducted using SW-846 method 8270C by SIM. TPH analyses were conducted using Florida PRO method. Metals analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial and Continuing Calibrations
• Laboratory Method and Field Quality Control Blank Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

VOCs - None.

PAHs

Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) were qualified as estimated, "J".

Total Petroleum Hydrocarbons

Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) were qualified as estimated, "J".

Metals

The following contaminant was detected in the laboratory preparation blank at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Lead	2.6 ug/L	13.0 ug/L

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level for lead were qualified "U" as a result of laboratory blank contamination.

Notes

None.

Executive Summary

Laboratory Performance: Lead was present in the preparation blank.

Other Factors Affecting Data Quality: Positive results reported below the RL but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to the "EPA Functional Guidelines for Organic Data Validation", October 1999, the "National Functional Guidelines for Inorganic Review", October 2004 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", January 2006.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01294	NSAMPLE	TFS-902C-MW-01-1009			TFS-902C-MW-02-1009			TFS-902C-MW-03-1009			TFS-902C-MW-04-1009		
SDG: F69228	LAB_ID	F69228-1			F69228-2			F69228-3			F69228-4		
FRACTION: OV	SAMP_DATE	10/31/2009			10/31/2009			10/31/2009			10/31/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.33	U		0.33	U		0.33	U		0.33	U	
1,1,2,2-TETRACHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,1,2-TRICHLOROETHANE		0.26	U		0.26	U		0.26	U		0.26	U	
1,1-DICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1-DICHLOROETHENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DIBROMOETHANE		0.0099	U		0.0099	U		0.0099	U		0.0099	U	
1,2-DICHLOROBENZENE		0.2	U		0.2	U		0.2	U		0.2	U	
1,2-DICHLOROETHANE		0.34	U		0.34	U		0.34	U		0.34	U	
1,2-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,3-DICHLOROBENZENE		0.23	U		0.23	U		0.23	U		0.23	U	
1,4-DICHLOROBENZENE		0.22	U		0.22	U		0.22	U		0.22	U	
2-CHLOROETHYL VINYL ETHER		1	U		1	U		1	U		1	U	
ACROLEIN		5	U		5	U		5	U		5	U	
ACRYLONITRILE		2	U		2	U		2	U		2	U	
BENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
BROMODICHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
BROMOFORM		0.33	U		0.33	U		0.33	U		0.33	U	
BROMOMETHANE		0.78	U		0.78	U		0.78	U		0.78	U	
CARBON TETRACHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	
CHLOROBENZENE		0.22	U		0.22	U		0.22	U		0.22	U	
CHLORODIBROMOMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
CHLOROFORM		0.28	U		0.28	U		0.28	U		0.28	U	
CHLOROMETHANE		0.61	U		0.61	U		0.61	U		0.61	U	
CIS-1,2-DICHLOROETHENE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.21	U	
DICHLORODIFLUOROMETHANE		1	U		1	U		1	U		1	U	
ETHYLBENZENE		0.43	U		0.43	U		0.43	U		0.43	U	
METHYL TERT-BUTYL ETHER		0.26	U		0.26	U		0.26	U		0.26	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		0.22	U		0.22	U		0.22	U		0.22	U	
TOLUENE		0.35	U		0.35	U		0.35	U		0.35	U	
TOTAL XYLENES		1.2	U		1.2	U		1.2	U		1.2	U	
TRANS-1,2-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
TRANS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 01294	NSAMPLE	TFS-902C-MW-01-1009			TFS-902C-MW-02-1009			TFS-902C-MW-03-1009			TFS-902C-MW-04-1009		
SDG: F69228	LAB_ID	F69228-1			F69228-2			F69228-3			F69228-4		
FRACTION: OV	SAMP_DATE	10/31/2009			10/31/2009			10/31/2009			10/31/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROETHENE		0.32	U		0.32	U		0.32	U		0.32	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		0.3	U		0.3	U		0.3	U		0.3	U	

PROJ_NO: 01294	NSAMPLE	TFS-MW-09-1109			TFS-MW-10-1109			TFS-MW-13-1109			TFS-MW-14-1109		
SDG: F69228	LAB_ID	F69228-5			F69228-6			F69228-7			F69228-8		
FRACTION: OV	SAMP_DATE	11/1/2009			11/1/2009			11/1/2009			11/1/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.33	U		0.33	U		0.33	U		0.33	U	
1,1,2,2-TETRACHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,1,2-TRICHLOROETHANE		0.26	U		0.26	U		0.26	U		0.26	U	
1,1-DICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1-DICHLOROETHENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DIBROMOETHANE		0.0099	U		0.0098	U		0.0096	U		0.0096	U	
1,2-DICHLOROBENZENE		0.2	U		0.2	U		0.2	U		0.2	U	
1,2-DICHLOROETHANE		0.34	U		0.34	U		0.34	U		0.34	U	
1,2-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,3-DICHLOROBENZENE		0.23	U		0.23	U		0.23	U		0.23	U	
1,4-DICHLOROBENZENE		0.22	U		0.22	U		0.22	U		0.22	U	
2-CHLOROETHYL VINYL ETHER		1	U		1	U		1	U		1	U	
ACROLEIN		5	U		5	U		5	U		5	U	
ACRYLONITRILE		2	U		2	U		2	U		2	U	
BENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
BROMODICHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
BROMOFORM		0.33	U		0.33	U		0.33	U		0.33	U	
BROMOMETHANE		0.78	U		0.78	U		0.78	U		0.78	U	
CARBON TETRACHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	
CHLOROBENZENE		0.22	U		0.22	U		0.22	U		0.22	U	
CHLORODIBROMOMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
CHLOROFORM		0.28	U		0.28	U		0.28	U		0.28	U	
CHLOROMETHANE		0.61	U		0.61	U		0.61	U		0.61	U	
CIS-1,2-DICHLOROETHENE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.21	U	
DICHLORODIFLUOROMETHANE		1	U		1	U		1	U		1	U	
ETHYLBENZENE		0.43	U		0.43	U		0.43	U		0.43	U	
METHYL TERT-BUTYL ETHER		0.26	U		0.26	U		0.26	U		0.26	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		0.22	U		0.22	U		0.22	U		0.22	U	
TOLUENE		0.35	U		0.35	U		0.35	U		0.35	U	
TOTAL XYLENES		1.2	U		1.2	U		1.2	U		1.2	U	
TRANS-1,2-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
TRANS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 01294	NSAMPLE	TFS-MW-09-1109			TFS-MW-10-1109			TFS-MW-13-1109			TFS-MW-14-1109		
SDG: F69228	LAB_ID	F69228-5			F69228-6			F69228-7			F69228-8		
FRACTION: OV	SAMP_DATE	11/1/2009			11/1/2009			11/1/2009			11/1/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROETHENE		0.32	U		0.32	U		0.32	U		0.32	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		0.3	U		0.3	U		0.3	U		0.3	U	

PROJ_NO: 01294	NSAMPLE	TFS-TB-01-1109
SDG: F69228	LAB_ID	F69228-9
FRACTION: OV	SAMP_DATE	11/1/2009
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.33	U	
1,1,2,2-TETRACHLOROETHANE	0.21	U	
1,1,2-TRICHLOROETHANE	0.26	U	
1,1-DICHLOROETHANE	0.24	U	
1,1-DICHLOROETHENE	0.54	U	
1,2-DIBROMOETHANE			
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.34	U	
1,2-DICHLOROPROPANE	0.21	U	
1,3-DICHLOROBENZENE	0.23	U	
1,4-DICHLOROBENZENE	0.22	U	
2-CHLOROETHYL VINYL ETHER	1	U	
ACROLEIN	5	U	
ACRYLONITRILE	2	U	
BENZENE	0.4	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.33	U	
BROMOMETHANE	0.78	U	
CARBON TETRACHLORIDE	0.22	U	
CHLOROBENZENE	0.22	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.48	U	
CHLOROFORM	0.28	U	
CHLOROMETHANE	0.61	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.21	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYLBENZENE	0.43	U	
METHYL TERT-BUTYL ETHER	0.26	U	
METHYLENE CHLORIDE	1	U	
TETRACHLOROETHENE	0.22	U	
TOLUENE	0.35	U	
TOTAL XYLENES	1.2	U	
TRANS-1,2-DICHLOROETHENE	0.45	U	
TRANS-1,3-DICHLOROPROPENE	0.21	U	

PROJ_NO: 01294	NSAMPLE	TFS-TB-01-1109		
SDG: F69228	LAB_ID	F69228-9		
FRACTION: OV	SAMP_DATE	11/1/2009		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TRICHLOROETHENE		0.32	U	
TRICHLOROFLUOROMETHANE		0.5	U	
VINYL CHLORIDE		0.3	U	

PROJ_NO: 01294	NSAMPLE	TFS-902C-MW-01-1009			TFS-902C-MW-02-1009			TFS-902C-MW-03-1009			TFS-902C-MW-04-1009		
SDG: F69228	LAB_ID	F69228-1			F69228-2			F69228-3			F69228-4		
FRACTION: PAH	SAMP_DATE	10/31/2009			10/31/2009			10/31/2009			10/31/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
2-METHYLNAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
ACENAPHTHENE		0.49	U		0.48	U		0.48	U		0.49	U	
ACENAPHTHYLENE		0.49	U		0.48	U		0.48	U		0.49	U	
ANTHRACENE		0.49	U		0.48	U		0.48	U		0.49	U	
BENZO(A)ANTHRACENE		0.049	U		0.048	U		0.048	U		0.049	U	
BENZO(A)PYRENE		0.049	U		0.048	U		0.048	U		0.049	U	
BENZO(B)FLUORANTHENE		0.049	U		0.07	J	P	0.048	U		0.055	J	P
BENZO(G,H,I)PERYLENE		0.049	U		0.048	U		0.048	U		0.049	U	
BENZO(K)FLUORANTHENE		0.049	U		0.048	U		0.048	U		0.049	U	
CHRYSENE		0.097	U		0.096	U		0.096	U		0.097	U	
DIBENZO(A,H)ANTHRACENE		0.049	U		0.048	U		0.048	U		0.049	U	
FLUORANTHENE		0.24	U		0.24	U		0.25	J	P	0.24	U	
FLUORENE		0.49	U		0.48	U		0.48	U		0.49	U	
INDENO(1,2,3-CD)PYRENE		0.049	U		0.048	U		0.048	U		0.049	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
PHENANTHRENE		0.24	U		0.24	U		0.24	U		0.24	U	
PYRENE		0.24	U		0.24	U		0.24	U		0.24	U	

PROJ_NO: 01294	NSAMPLE	TFS-MW-09-1109			TFS-MW-10-1109			TFS-MW-13-1109			TFS-MW-14-1109		
SDG: F69228	LAB_ID	F69228-5			F69228-6			F69228-7			F69228-8		
FRACTION: PAH	SAMP_DATE	11/1/2009			11/1/2009			11/1/2009			11/1/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
2-METHYLNAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
ACENAPHTHENE		0.48	U		0.48	U		6.8			0.48	U	
ACENAPHTHYLENE		0.48	U		0.48	U		0.48	U		0.48	U	
ANTHRACENE		0.48	U		0.48	U		0.48	U		0.48	U	
BENZO(A)ANTHRACENE		0.048	U		0.048	U		0.048	U		0.048	U	
BENZO(A)PYRENE		0.048	U		0.048	U		0.048	U		0.048	U	
BENZO(B)FLUORANTHENE		0.048	U		0.07	J	P	0.048	U		0.048	U	
BENZO(G,H,I)PERYLENE		0.048	U		0.048	U		0.048	U		0.048	U	
BENZO(K)FLUORANTHENE		0.048	U		0.048	U		0.048	U		0.048	U	
CHRYSENE		0.096	U		0.096	U		0.096	U		0.096	U	
DIBENZO(A,H)ANTHRACENE		0.048	U		0.048	U		0.048	U		0.048	U	
FLUORANTHENE		0.24	U		0.24	U		0.49	J	P	0.24	U	
FLUORENE		0.48	U		0.48	U		0.48	U		0.48	U	
INDENO(1,2,3-CD)PYRENE		0.048	U		0.048	U		0.048	U		0.048	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
PHENANTHRENE		0.24	U		0.24	U		0.24	U		0.24	U	
PYRENE		0.24	U		0.24	U		0.31	J	P	0.24	U	

PROJ_NO: 01294	NSAMPLE	TFS-902C-MW-01-1009			TFS-902C-MW-02-1009			TFS-902C-MW-03-1009			TFS-902C-MW-04-1009		
SDG: F69228	LAB_ID	F69228-1			F69228-2			F69228-3			F69228-4		
FRACTION: PET	SAMP_DATE	10/31/2009			10/31/2009			10/31/2009			10/31/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		1.24			1.23			1.05			0.899		

PROJ_NO: 01294	NSAMPLE	TFS-MW-09-1109			TFS-MW-10-1109			TFS-MW-13-1109			TFS-MW-14-1109		
SDG: F69228	LAB_ID	F69228-5			F69228-6			F69228-7			F69228-8		
FRACTION: PET	SAMP_DATE	11/1/2009			11/1/2009			11/1/2009			11/1/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		0.334			0.392			0.453			0.197	J	P

PROJ_NO: 01294	NSAMPLE	TFS-902C-MW-01-1009			TFS-902C-MW-02-1009			TFS-902C-MW-03-1009			TFS-902C-MW-04-1009		
SDG: F69228	LAB_ID	F69228-1			F69228-2			F69228-3			F69228-4		
FRACTION: M	SAMP_DATE	10/31/2009			10/31/2009			10/31/2009			10/31/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
IRON		23	U		23	U		23	U		23	U	
LEAD		2.8	U	A	2	U		2	U		3.1	U	A

PROJ_NO: 01294	NSAMPLE	TFS-MW-09-1109			TFS-MW-10-1109			TFS-MW-13-1109			TFS-MW-14-1109		
SDG: F69228	LAB_ID	F69228-5			F69228-6			F69228-7			F69228-8		
FRACTION: M	SAMP_DATE	11/1/2009			11/1/2009			11/1/2009			11/1/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
IRON		23	U		23	U		23	U		23	U	
LEAD		2.9	U	A	3.4	U	A	2.3	U	A	2	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-01-1009		
Lab Sample ID:	F69228-1	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063751.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-902C-MW-01-1009		
Lab Sample ID:	F69228-1	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: DD52733.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-01-1009		
Lab Sample ID:	F69228-1	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52733.D	1	11/05/09	BR	11/04/09	OP30795	GDD1527
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: B063752.D

Accutest Laboratories

Report of Analysis

3.2
35

Client Sample ID:	TFS-902C-MW-02-1009		
Lab Sample ID:	F69228-2	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063752.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-902C-MW-02-1009		
Lab Sample ID:	F69228-2	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-02-1009		
Lab Sample ID:	F69228-2	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52734.D	1	11/05/09	BR	11/04/09	OP30795	GDD1527
Run #2							

	Initial Volume	Final Volume
Run #1	35.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-03-1009		
Lab Sample ID:	F69228-3	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063753.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-902C-MW-03-1009		
Lab Sample ID:	F69228-3	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-03-1009		
Lab Sample ID:	F69228-3	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52735.D	1	11/05/09	BR	11/04/09	OP30795	GDD1527
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-04-1009		
Lab Sample ID:	F69228-4	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063754.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-902C-MW-04-1009		
Lab Sample ID:	F69228-4	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-04-1009		
Lab Sample ID:	F69228-4	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52736.D	1	11/05/09	BR	11/04/09	OP30795	GDD1527
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-09-1109		
Lab Sample ID:	F69228-5	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063755.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-MW-09-1109		
Lab Sample ID:	F69228-5	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-09-1109		
Lab Sample ID:	F69228-5	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52737.D	1	11/05/09	BR	11/04/09	OP30795	GDD1527
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TFS-MW-10-1109		
Lab Sample ID:	F69228-6	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063802.D	1	11/13/09	AJ	n/a	n/a	VB2657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-MW-10-1109		
Lab Sample ID:	F69228-6	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-10-1109		
Lab Sample ID:	F69228-6	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52738.D	1	11/05/09	BR	11/04/09	OP30795	GDD1527
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0098 U	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: B063803.D

Accutest Laboratories

Report of Analysis

3.7

Client Sample ID:	TFS-MW-13-1109		
Lab Sample ID:	F69228-7	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063803.D	1	11/13/09	AJ	n/a	n/a	VB2657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-MW-13-1109		
Lab Sample ID:	F69228-7	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-13-1109		
Lab Sample ID:	F69228-7	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52824.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0096 U	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-14-1109		
Lab Sample ID:	F69228-8	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063758.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-MW-14-1109		
Lab Sample ID:	F69228-8	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-14-1109		
Lab Sample ID:	F69228-8	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52825.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0096 U	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-TB-01-1109		
Lab Sample ID:	F69228-9	Date Sampled:	11/01/09
Matrix:	AQ - Trip Blank Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B063759.D	1	11/11/09	AJ	n/a	n/a	VB2655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-TB-01-1109		
Lab Sample ID:	F69228-9	Date Sampled:	11/01/09
Matrix:	AQ - Trip Blank Water	Date Received:	11/03/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: W048401.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-01-1009		
Lab Sample ID:	F69228-1	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048401.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.97	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.24 U	0.97	0.24	ug/l	
86-73-7	Fluorene	0.49 U	0.97	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.97	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.97	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	54%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-02-1009		
Lab Sample ID:	F69228-2	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048402.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.070	0.19	0.048	ug/l	I
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	45%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-03-1009		
Lab Sample ID:	F69228-3	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048403.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.25	0.96	0.24	ug/l	1
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		42-108%
321-60-8	2-Fluorobiphenyl	88%		40-106%
1718-51-0	Terphenyl-d14	65%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-04-1009		
Lab Sample ID:	F69228-4	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048404.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.97	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.055	0.19	0.049	ug/l	I
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.24 U	0.97	0.24	ug/l	
86-73-7	Fluorene	0.49 U	0.97	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.97	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.97	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	84%		40-106%
1718-51-0	Terphenyl-d14	58%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-09-1109		
Lab Sample ID:	F69228-5	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048405.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	55%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-10-1109		
Lab Sample ID:	F69228-6	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048406.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.070	0.19	0.048	ug/l	I
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	52%		42-108%
321-60-8	2-Fluorobiphenyl	45%		40-106%
1718-51-0	Terphenyl-d14	53%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-13-1109		
Lab Sample ID:	F69228-7	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048407.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	6.8	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.49	0.96	0.24	ug/l	I
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.31	0.96	0.24	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-14-1109		
Lab Sample ID:	F69228-8	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048408.D	1	11/09/09	RB	11/05/09	OP30806	SW2442
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: IJ60819.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-01-1009		
Lab Sample ID:	F69228-1	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60819.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2085
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.24	0.24	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-02-1009		
Lab Sample ID:	F69228-2	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60820.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2085
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.23	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: IJ60822.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-03-1009		
Lab Sample ID:	F69228-3	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60822.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2085
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.05	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-04-1009		
Lab Sample ID:	F69228-4	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60823.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2085
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.899	0.24	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-09-1109		
Lab Sample ID:	F69228-5	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60824.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2085
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.334	0.24	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: IJ60825.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-10-1109		
Lab Sample ID:	F69228-6	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60825.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2085
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.392	0.24	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	TFS-MW-13-1109		
Lab Sample ID:	F69228-7	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60870.D	1	11/09/09	FEA	11/05/09	OP30807	GIJ2088
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.453	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-14-1109		
Lab Sample ID:	F69228-8	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60850.D	1	11/06/09	FEA	11/05/09	OP30807	GIJ2087
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.197	0.25	0.17	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-01-1009		
Lab Sample ID:	F69228-1	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	2.8 I	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	TFS-902C-MW-02-1009		
Lab Sample ID:	F69228-2	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	2.0 U	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-902C-MW-03-1009		
Lab Sample ID:	F69228-3	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	2.0 U	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TFS-902C-MW-04-1009		
Lab Sample ID:	F69228-4	Date Sampled:	10/31/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	3.1 I	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TFS-MW-09-1109		
Lab Sample ID:	F69228-5	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	2.9 I	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-MW-10-1109		
Lab Sample ID:	F69228-6	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	3.4 I	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TFS-MW-13-1109		
Lab Sample ID:	F69228-7	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	2.3 I	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TFS-MW-14-1109		
Lab Sample ID:	F69228-8	Date Sampled:	11/01/09
Matrix:	AQ - Ground Water	Date Received:	11/03/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]
Lead [a]	2.0 U	10	2.0	ug/l	1	11/04/09	11/04/09	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7646
(2) Prep QC Batch: MP17291

(a) Elevated RL due to CRIA exceeding acceptance criteria.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

APPENDIX C
SUPPORT DOCUMENTATION

HOLDTIME

SDG F69228

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/04/2009	11/04/2009	4	0	4
M	UG/L	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/04/2009	11/04/2009	3	0	3
M	UG/L	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/04/2009	11/04/2009	3	0	3
M	UG/L	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/04/2009	11/04/2009	3	0	3
M	UG/L	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/04/2009	11/04/2009	3	0	3
M	UG/L	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/04/2009	11/04/2009	4	0	4
M	UG/L	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/04/2009	11/04/2009	4	0	4
M	UG/L	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/04/2009	11/04/2009	4	0	4
EDB	%	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	%	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	%	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	%	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/12/2009	11/12/2009	11	0	11
EDB	%	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
EDB	%	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
EDB	%	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/12/2009	11/12/2009	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	%	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	UG/L	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/12/2009	11/12/2009	11	0	11
EDB	UG/L	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	UG/L	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
EDB	UG/L	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
EDB	UG/L	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	UG/L	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	UG/L	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
EDB	UG/L	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/12/2009	11/12/2009	11	0	11
OV	%	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
OV	%	TFS-TB-01-1109	F69228-9	NM	11/01/2009	11/11/2009	11/11/2009	10	0	10
OV	%	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/11/2009	11/11/2009	10	0	10
OV	%	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/13/2009	11/13/2009	12	0	12
OV	%	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/13/2009	11/13/2009	12	0	12
OV	%	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/11/2009	11/11/2009	10	0	10
OV	%	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
OV	%	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
OV	%	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
OV	UG/L	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
OV	UG/L	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
OV	UG/L	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/11/2009	11/11/2009	10	0	10
OV	UG/L	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/13/2009	11/13/2009	12	0	12
OV	UG/L	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/13/2009	11/13/2009	12	0	12
OV	UG/L	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/11/2009	11/11/2009	10	0	10
OV	UG/L	TFS-TB-01-1109	F69228-9	NM	11/01/2009	11/11/2009	11/11/2009	10	0	10
OV	UG/L	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/11/2009	11/11/2009	11	0	11
SIM	%	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	%	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	%	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	%	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	%	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	%	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	%	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	%	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	UG/L	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/L	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	UG/L	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	UG/L	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	UG/L	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	UG/L	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
SIM	UG/L	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
SIM	UG/L	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/05/2009	11/09/2009	5	4	9
TPH	%	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
TPH	%	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/05/2009	11/06/2009	4	1	5
TPH	%	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
TPH	%	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	%	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	%	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	%	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	%	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8
TPH	MG/L	TFS-MW-14-1109	F69228-8	NM	11/01/2009	11/05/2009	11/06/2009	4	1	5
TPH	MG/L	TFS-902C-MW-01-1009	F69228-1	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	MG/L	TFS-902C-MW-02-1009	F69228-2	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	MG/L	TFS-902C-MW-03-1009	F69228-3	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	MG/L	TFS-902C-MW-04-1009	F69228-4	NM	10/31/2009	11/04/2009	11/05/2009	4	1	5
TPH	MG/L	TFS-MW-09-1109	F69228-5	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
TPH	MG/L	TFS-MW-10-1109	F69228-6	NM	11/01/2009	11/04/2009	11/05/2009	3	1	4
TPH	MG/L	TFS-MW-13-1109	F69228-7	NM	11/01/2009	11/05/2009	11/09/2009	4	4	8

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F69228

Site: NAS Key West, Key West, FL **Report Date:** 11/23/2009 4:13:23

8 Samples and 1 Trip Blank were collected on 10/31/2009 and 11/01/2009 and were received at Accutest SE on 11/03/2009 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F69228. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VB2655

All samples were analyzed within the recommended method holding time.

Samples F69288-4MS, F69288-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

RPD for MSD for cis-1,2-Dichloroethylene is outside control limits for sample F69288-4MSD. Probable cause due to sample non-homogeneity.

Matrix: AQ **Batch ID:** VB2657

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69224-26MS, F69224-26MSD were used as the QC samples indicated.

Matrix Spike and Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether, cis-1,2-Dichloroethylene are outside control limits. Probable cause: due to matrix interference.

RPD for MSD for 2-Chloroethyl vinyl ether is outside control limits for sample F69224-26MSD. Probable cause due to sample non-homogeneity.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP30806

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69203-6MS, F69203-6MSD were used as the QC samples indicated.

Volatiles by GC by Method EPA 504.1

Matrix: AQ **Batch ID:** OP30795

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69203-6MS, F69203-6MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

RPD for MSD for 1,2-Dibromoethane is outside control limits for sample OP30795-MSD. Probable cause due to sample non-homogeneity.

Matrix: AQ **Batch ID:** OP30883

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69228-8MS, F69228-8MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Extractables by GC by Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP30793

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample F69203-6MS was used as the QC sample indicated.

Matrix Spike Recovery for TPH (C8-C40) is outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** OP30807

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69228-8MS, F69228-8MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Metals by Method SW846 6010B

Matrix: AQ **Batch ID:** MP17291

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69228-1DUP, F69228-1MS, F69228-1MSD, F69228-1SDL were used as the QC samples for metals.

RPD for Serial Dilution for Lead is outside control limits for sample MP17291-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6, F69228-7, F69228-8 for Lead: Elevated RL due to CRIA exceeding acceptance criteria.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: November 23, 2009

Ellen Pampel, Inorganic QA (signature on file)

Monday, November 23, 2009

TETRA TECH NUS, INC

CHAIN OF CUSTODY NUMBER: ED00000109-1

F69228

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01294	**KEY WEST NAS**	**Chuck Bryan**	**Federal Express**	**Accutest Labs, SE 4405 Vineland Road Orlando, FL 32811**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
0105	**Standard**	**Gary Braganza**		**Heather Wandrey 407-425-6700 x120**

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
(1)	10/31/2009	TFS-902C-MW-01-1009	10:05	SW-846 5030B/8260	TFS-902C-MW-01	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	10/31/2009	TFS-902C-MW-01-1009	10:05	SW-846 8270C SIM	TFS-902C-MW-01	GW	PAHs	4°C	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-01-1009	10:05	FL-PRO	TFS-902C-MW-01	GW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-01-1009	10:05	EPA 239.2	TFS-902C-MW-01	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	10/31/2009	TFS-902C-MW-01-1009	10:05	EPA 504.1	TFS-902C-MW-01	GW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
(2)	10/31/2009	TFS-902C-MW-02-1009	10:57	SW-846 5030B/8260	TFS-902C-MW-02	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	10/31/2009	TFS-902C-MW-02-1009	10:57	SW-846 8270C SIM	TFS-902C-MW-02	GW	PAHs	4°C	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-02-1009	10:57	FL-PRO	TFS-902C-MW-02	GW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-02-1009	10:57	EPA 239.2	TFS-902C-MW-02	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	10/31/2009	TFS-902C-MW-02-1009	10:57	EPA 504.1	TFS-902C-MW-02	GW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
(3)	10/31/2009	TFS-902C-MW-03-1009	12:01	SW-846 5030B/8260	TFS-902C-MW-03	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	10/31/2009	TFS-902C-MW-03-1009	12:01	SW-846 8270C SIM	TFS-902C-MW-03	GW	PAHs	4°C	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-03-1009	12:01	FL-PRO	TFS-902C-MW-03	GW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-03-1009	12:01	EPA 239.2	TFS-902C-MW-03	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	10/31/2009	TFS-902C-MW-03-1009	12:01	EPA 504.1	TFS-902C-MW-03	GW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
(4)	10/31/2009	TFS-902C-MW-04-1009	12:46	SW-846 5030B/8260	TFS-902C-MW-04	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	10/31/2009	TFS-902C-MW-04-1009	12:46	SW-846 8270C SIM	TFS-902C-MW-04	GW	PAHs	4°C	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-04-1009	12:46	FL-PRO	TFS-902C-MW-04	GW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	10/31/2009	TFS-902C-MW-04-1009	12:46	EPA 239.2	TFS-902C-MW-04	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	10/31/2009	TFS-902C-MW-04-1009	12:46	EPA 504.1	TFS-902C-MW-04	GW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
(5)	11/01/2009	TFS-MW-09-1109	14:10	SW-846 5030B/8260	TFS-MW-09	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/01/2009	TFS-MW-09-1109	14:10	SW-846 8270C SIM	TFS-MW-09	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/01/2009	TFS-MW-09-1109	14:10	FL-PRO	TFS-MW-09	GW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	11/01/2009	TFS-MW-09-1109	14:10	EPA 239.2	TFS-MW-09	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	

FK

Stored 11-3-09 09:20

1.8 2.4 3.2 3.0

http://www.terragena.com/customer/ttnus/fieldforms.nsf/103a8b9cbce17b228525705d0071b21c?OpenForm&ParentUNID=841839447... 11/1/2009

F69228: Chain of Custody

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F69228

5	11/01/2009	TFS-MW-09-1109	14:10	EPA 504.1	TFS-MW-09	GW	EDB	4°C/NA2S2O3	3	Glass - Clear, 40ml vials
	11/01/2009	TFS-MW-10-1109	11:20	SW-846 5030B/8260	TFS-MW-10	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear 40ml vials
	11/01/2009	TFS-MW-10-1109	11:20	SW-846 8270C SIM	TFS-MW-10	GW	PAHs	4°C	2	Glass - Amber 1L
6	11/01/2009	TFS-MW-10-1109	11:20	FL-PRO	TFS-MW-10	GW	TRPH	4°C/H2SO4	2	Glass - Amber 1L
	11/01/2009	TFS-MW-10-1109	11:20	EPA 239.2	TFS-MW-10	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE 500ml
	11/01/2009	TFS-MW-10-1109	11:20	EPA 504.1	TFS-MW-10	GW	EDB	4°C/NA2S2O3	3	Glass - Clear 40ml vials
	11/01/2009	TFS-MW-13-1109	12:17	SW-846 5030B/8260	TFS-MW-13	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear 40ml vials
	11/01/2009	TFS-MW-13-1109	12:17	SW-846 8270C SIM	TFS-MW-13	GW	PAHs	4°C	2	Glass - Amber 1L
7	11/01/2009	TFS-MW-13-1109	12:17	FL-PRO	TFS-MW-13	GW	TRPH	4°C/H2SO4	2	Glass - Amber 1L
	11/01/2009	TFS-MW-13-1109	12:17	EPA 239.2	TFS-MW-13	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE 500ml
	11/01/2009	TFS-MW-13-1109	12:17	EPA 504.1	TFS-MW-13	GW	EDB	4°C/NA2S2O3	3	Glass - Clear 40ml vials
	11/01/2009	TFS-MW-14-1109	13:24	SW-846 5030B/8260	TFS-MW-14	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear 40ml vials
	11/01/2009	TFS-MW-14-1109	13:24	SW-846 8270C SIM	TFS-MW-14	GW	PAHs	4°C	2	Glass - Amber 1L
8	11/01/2009	TFS-MW-14-1109	13:24	FL-PRO	TFS-MW-14	GW	TRPH	4°C/H2SO4	2	Glass - Amber 1L
	11/01/2009	TFS-MW-14-1109	13:24	EPA 239.2	TFS-MW-14	GW	Lead and Iron	4°C/HNO3	1	Plastic - PE 500ml
	11/01/2009	TFS-MW-14-1109	13:24	EPA 504.1	TFS-MW-14	GW	EDB	4°C/NA2S2O3	3	Glass - Clear 40ml vials
9	11/01/2009	TFS-TB-01-1109	08:00	SW-846 5030B/8260	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/HCL	2	Glass - Clear 40ml vials

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gary Braganza	11/02/2009	16:59	Federal Express	11/02/2009	16:59
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
FX			J. Lopez	11-3-09	09:00
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

1.B 2.4 3.C 3.0

F69228: Chain of Custody
Page 2 of 3

Instrument Performance Check (BFB)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VB2655-BFB	Injection Date:	11/11/09
Lab File ID:	B063729.D	Injection Time:	09:29
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	21002	17.9		Pass
75	30.0 - 60.0% of mass 95	54984	46.8		Pass
95	Base peak, 100% relative abundance	117512	100.0		Pass
96	5.0 - 9.0% of mass 95	8057	6.9		Pass
173	Less than 2.0% of mass 174	183	0.16	(0.21) [a]	Pass
174	50.0 - 100.0% of mass 95	88402	75.2		Pass
175	5.0 - 9.0% of mass 174	6522	5.6	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	86653	73.7	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	5878	5.0	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB2655-IC2655	B063730.D	11/11/09	09:54	00:25	Initial cal 1
VB2655-IC2655	B063731.D	11/11/09	10:20	00:51	Initial cal 2
VB2655-IC2655	B063732.D	11/11/09	10:47	01:18	Initial cal 3
VB2655-ICC2655	B063733.D	11/11/09	11:13	01:44	Initial cal 4
VB2655-IC2655	B063734.D	11/11/09	11:40	02:11	Initial cal 5
VB2655-IC2655	B063735.D	11/11/09	12:06	02:37	Initial cal 6
VB2655-ICV2655	B063736.D	11/11/09	12:33	03:04	Initial cal verification 4

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2655-ICC2655
Lab FileID: B063733.D

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260B.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Nov 11 12:31:42 2009
Response via : Initial Calibration

Calibration Files
1 =B063730.D 2 =B063731.D 3 =B063732.D 4 =B063733.D
5 =B063734.D 6 =B063735.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.182	0.219	0.247	0.238	0.241	0.205	0.222	11.32
3)	P	Chloromethane	0.311	0.323	0.313	0.315	0.324	0.284	0.312	4.61
4)	C	Vinyl Chloride	0.375	0.305	0.325	0.323	0.328	0.283	0.323	9.45
5)		Bromomethane	0.367	0.210	0.238	0.232	0.233	0.204	0.248	24.33
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979								
		Response Ratio = 0.00000 + 0.26323 *A + -0.02822 *A^2								
6)		Chloroethane	0.229	0.182	0.185	0.186	0.190	0.166	0.190	11.17
7)		Trichlorofluorometh	0.366	0.401	0.425	0.420	0.426	0.376	0.402	6.51
8)		Ethyl Ether	0.217	0.228	0.237	0.235	0.241	0.216	0.229	4.63
9)		1,2-Dichlorotrifluo	0.474	0.299	0.301	0.304	0.306	0.253	0.323	23.75
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9952								
		Response Ratio = 0.00000 + 0.35801 *A + -0.05012 *A^2								
10)		Freon 113	0.242	0.295	0.298	0.301	0.287	0.237	0.276	10.54
11)	C	1,1-Dichloroethene	0.431	0.555	0.548	0.537	0.518	0.440	0.505	10.93
12)		Acetone	0.110	0.100	0.098	0.096	0.091	0.090	0.097	7.60
13)		Iodomethane	0.491	0.529	0.525	0.523	0.524	0.466	0.510	5.02
14)		Carbon Disulfide	0.937	0.994	1.002	1.011	1.005	0.844	0.966	6.76
15)		Methyl acetate	0.212	0.256	0.259	0.258	0.260	0.240	0.248	7.56
16)		Methylene Chloride	1.013	0.634	0.561	0.548	0.535	0.483	0.629	30.93
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.60798 *A + -0.06077 *A^2								
17)		Methyl Tert Butyl E	0.835	0.970	0.976	0.975	0.979	0.912	0.941	6.17
18)		trans-1,2-Dichloroe	0.473	0.556	0.549	0.548	0.535	0.459	0.520	8.21
19)		Acrylonitrile	0.111	0.126	0.132	0.136	0.138	0.132	0.129	7.54
20)		Hexane	0.465	0.503	0.496	0.497	0.498	0.400	0.477	8.39
21)		Di-isopropyl ether	1.259	1.416	1.415	1.385	1.356	1.197	1.338	6.73
22)		Vinyl acetate	0.463	0.542	0.565	0.571	0.559	0.502	0.534	8.04
23)	P	1,1-Dichloroethane	0.595	0.699	0.687	0.684	0.674	0.582	0.654	7.81
24)		ETBE	1.027	1.176	1.214	1.206	1.212	1.111	1.158	6.45
25)		2-Butanone	0.143	0.159	0.168	0.166	0.167	0.158	0.160	5.80
26)		2,2-Dichloropropane	0.419	0.462	0.464	0.466	0.463	0.390	0.444	7.17
27)		cis-1,2-Dichloroeth	0.392	0.417	0.409	0.409	0.407	0.365	0.400	4.74
28)		Bromochloromethane	0.154	0.186	0.188	0.187	0.188	0.173	0.179	7.61
29)		Tetrahydrofuran	0.263	0.130	0.111	0.106	0.106	0.099	0.136	46.50
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.11530 *A + -0.00777 *A^2								
30)	C	Chloroform	0.688	0.677	0.655	0.645	0.645	0.568	0.647	6.51
31)	S	Dibromofluoromethan	0.267	0.260	0.265	0.265	0.266	0.265	0.265	0.86
32)		1,1,1-Trichloroetha	0.449	0.539	0.531	0.538	0.538	0.457	0.509	8.54
33)		Cyclohexane	0.602	0.641	0.636	0.630	0.633	0.518	0.610	7.69
34)		Carbon Tetrachlorid	0.368	0.453	0.463	0.468	0.473	0.393	0.436	10.20

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2655-ICC2655
Lab FileID: B063733.D

35)		1,1-Dichloropropene	0.461	0.512	0.508	0.509	0.504	0.421	0.486	7.64
36)	S	1,2-Dichloroethane-	0.303	0.303	0.305	0.304	0.306	0.299	0.303	0.77
37)		TAME	0.924	0.962	0.998	0.998	0.991	0.906	0.963	4.15
38)		Benzene	1.378	1.510	1.501	1.485	1.482	1.279	1.439	6.37
39)		1,2-Dichloroethane	0.466	0.519	0.525	0.515	0.511	0.458	0.499	5.87
40)		Trichloroethene	0.351	0.384	0.377	0.380	0.382	0.325	0.367	6.42
41)		Methylcyclohexane	0.482	0.581	0.578	0.572	0.574	0.469	0.543	9.62
42)	C	1,2-Dichloropropane	0.370	0.408	0.411	0.408	0.408	0.364	0.395	5.48
43)		Dibromomethane	0.192	0.223	0.230	0.226	0.227	0.210	0.218	6.59
44)		Bromodichloromethan	0.428	0.494	0.515	0.516	0.520	0.470	0.490	7.32
45)		2-Chloroethyl vinyl	0.209	0.252	0.257	0.250	0.245	0.219	0.239	8.28
46)		2-Nitropropane	0.065	0.082	0.094	0.095	0.095	0.089	0.087	13.75
47)		cis-1,3-Dichloropro	0.492	0.601	0.628	0.624	0.636	0.575	0.593	9.14
48)		4-Methyl-2-pentanon	0.316	0.345	0.360	0.356	0.348	0.314	0.340	5.82
49)	I	Chlorobenzene-d5	----------ISTD----------							
50)	S	Toluene-d8	1.175	1.175	1.175	1.177	1.183	1.176	1.177	0.27
51)	C	Toluene	1.565	1.724	1.691	1.685	1.665	1.439	1.628	6.59
52)		trans-1,3-Dichlorop	0.441	0.523	0.559	0.569	0.575	0.528	0.532	9.36
53)		1,1,2-Trichloroetha	0.264	0.299	0.302	0.302	0.300	0.279	0.291	5.45
54)		Tetrachloroethene	0.384	0.389	0.382	0.381	0.378	0.321	0.373	6.89
55)		2-hexanone	0.205	0.261	0.266	0.263	0.260	0.237	0.249	9.67
56)		1,3-Dichloropropane	0.536	0.616	0.611	0.609	0.603	0.545	0.587	6.14
57)		Dibromochloromethan	0.303	0.354	0.379	0.389	0.399	0.370	0.366	9.39
58)		1,2-Dibromoethane	0.302	0.351	0.356	0.355	0.358	0.332	0.342	6.43
59)		1-Chlorohexane	0.488	0.558	0.554	0.556	0.562	0.471	0.532	7.68
60)	P	Chlorobenzene	0.958	1.071	1.058	1.052	1.039	0.923	1.017	5.99
61)	C	Ethylbenzene	1.648	1.931	1.869	1.827	1.791	1.526	1.765	8.54
62)		1,1,1,2-Tetrachloro	0.311	0.355	0.363	0.358	0.360	0.323	0.345	6.42
63)		m,p-Xylene	1.341	1.482	1.436	1.410	1.347	1.149	1.361	8.59
64)		o-Xylene	1.297	1.519	1.480	1.449	1.413	1.231	1.398	7.97
65)		Styrene	1.025	1.189	1.227	1.214	1.201	1.053	1.152	7.68
66)	P	Bromoform	0.149	0.185	0.210	0.221	0.228	0.217	0.202	14.73
67)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
68)		Isopropylbenzene	2.675	3.080	2.952	2.948	2.887	2.460	2.834	7.97
69)		Cyclohexanone	0.025	0.022	0.023	0.023	0.023	0.022	0.023	5.07
70)	S	4-Bromofluorobenzen	1.005	1.007	1.003	1.007	1.006	0.992	1.003	0.59
71)	P	1,1,2,2-Tetrachloro	0.659	0.750	0.779	0.769	0.782	0.718	0.743	6.39
72)		trans-1,4-Dichloro-	0.129	0.146	0.171	0.176	0.192	0.179	0.165	14.30
73)		n-Propylbenzene	3.607	4.105	4.046	3.942	3.860	3.215	3.796	8.79
74)		Bromobenzene	0.771	0.856	0.840	0.824	0.820	0.736	0.808	5.59
75)		1,2,3-Trichloroprop	0.184	0.211	0.221	0.216	0.218	0.205	0.209	6.46
76)		1,3,5-Trimethylbenz	2.334	2.767	2.759	2.689	2.633	2.273	2.576	8.44
77)		2-Chlorotoluene	2.431	2.727	2.716	2.642	2.578	2.231	2.554	7.50
78)		4-Chlorotoluene	2.296	2.570	2.474	2.433	2.428	2.093	2.382	7.02
79)		tert-Butylbenzene	1.409	1.646	1.621	1.600	1.591	1.338	1.534	8.34
80)		1,2,4-Trimethylbenz	2.560	2.884	2.864	2.838	2.804	2.416	2.728	7.08
81)		sec-Butylbenzene	2.964	3.433	3.421	3.354	3.349	2.801	3.220	8.35
82)		4-Isopropyltoluene	2.243	2.737	2.750	2.697	2.710	2.311	2.574	9.03
83)		1,3-Dichlorobenzene	1.365	1.541	1.497	1.489	1.510	1.330	1.455	5.91
84)		1,4-Dichlorobenzene	1.443	1.558	1.547	1.523	1.504	1.342	1.486	5.48
85)		Benzyl Chloride	0.878	1.132	1.337	1.384	1.445	1.342	1.253	16.92
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985								
		Response Ratio = 0.00000 + 1.46693 *A + -0.05466 *A^2								
86)		n-Butylbenzene	2.436	2.802	2.751	2.720	2.671	2.253	2.606	8.23
87)		1,2-Dichlorobenzene	1.303	1.418	1.408	1.405	1.413	1.279	1.371	4.55
88)		1,2-Dibromo-3-Chlor	0.109	0.113	0.118	0.116	0.125	0.117	0.116	4.68
89)		1,2,4-Trichlorobenz	0.631	0.751	0.714	0.719	0.706	0.647	0.695	6.60

5.7.1

5

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2655-ICC2655
Lab FileID: B063733.D

90)		Hexachlorobutadiene	0.285	0.323	0.311	0.308	0.308	0.265	0.300	7.08
91)		Naphthalene	1.027	1.093	1.068	1.118	1.074	1.017	1.066	3.62
92)		1,2,3-Trichlorobenz	0.172	0.206	0.181	0.189	0.164	0.153	0.178	10.52
93)	I	Tert Butyl alcohol-d1	----------ISTD----------							
94)		Acrolein	1.547	1.816	1.551	1.510	1.547	1.413	1.564	8.57
95)		Tert-Butyl Alcohol	1.002	1.208	1.227	1.198	1.218	1.118	1.162	7.52
96)		Tert amyl alcohol	0.687	0.826	0.869	0.872	0.907	0.835	0.833	9.27
97)		1,4-Dioxane	0.117	0.140	0.144	0.147	0.148	0.134	0.138	8.50

(#) = Out of Range

8260B.M Wed Nov 11 12:56:22 2009

5.7.1 5

Instrument Performance Check (BFB)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VB2655-BFB	Injection Date:	11/11/09
Lab File ID:	B063737.D	Injection Time:	12:58
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17661	18.0		Pass
75	30.0 - 60.0% of mass 95	45186	46.0		Pass
95	Base peak, 100% relative abundance	98234	100.0		Pass
96	5.0 - 9.0% of mass 95	6776	6.9		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	74453	75.8		Pass
175	5.0 - 9.0% of mass 174	5088	5.2	(6.8) [a]	Pass
176	95.0 - 101.0% of mass 174	71978	73.3	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4931	5.0	(6.9) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB2655-CC2655	B063738.D	11/11/09	13:23	00:25	Continuing cal 4
VB2655-BS	B063739.D	11/11/09	13:55	00:57	Blank Spike
VB2655-MB	B063740.D	11/11/09	14:38	01:40	Method Blank
ZZZZZZ	B063741.D	11/11/09	15:04	02:06	(unrelated sample)
ZZZZZZ	B063742.D	11/11/09	15:33	02:35	(unrelated sample)
ZZZZZZ	B063743.D	11/11/09	15:59	03:01	(unrelated sample)
ZZZZZZ	B063744.D	11/11/09	16:26	03:28	(unrelated sample)
ZZZZZZ	B063745.D	11/11/09	16:53	03:55	(unrelated sample)
F69288-4	B063746.D	11/11/09	17:19	04:21	(used for QC only; not part of job F69228)
ZZZZZZ	B063747.D	11/11/09	17:46	04:48	(unrelated sample)
ZZZZZZ	B063748.D	11/11/09	18:13	05:15	(unrelated sample)
F69288-4MS	B063749.D	11/11/09	18:39	05:41	Matrix Spike
F69288-4MSD	B063750.D	11/11/09	19:06	06:08	Matrix Spike Duplicate
F69228-1	B063751.D	11/11/09	19:33	06:35	TFS-902C-MW-01-1009
F69228-2	B063752.D	11/11/09	19:59	07:01	TFS-902C-MW-02-1009
F69228-3	B063753.D	11/11/09	20:25	07:27	TFS-902C-MW-03-1009
F69228-4	B063754.D	11/11/09	20:52	07:54	TFS-902C-MW-04-1009
F69228-5	B063755.D	11/11/09	21:19	08:21	TFS-MW-09-1109
F69228-8	B063758.D	11/11/09	22:39	09:41	TFS-MW-14-1109
F69228-9	B063759.D	11/11/09	23:05	10:07	TFS-TB-01-1109
ZZZZZZ	B063761.D	11/11/09	23:59	11:01	(unrelated sample)
ZZZZZZ	B063762.D	11/12/09	00:25	11:27	(unrelated sample)

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2655-CC2655
Lab FileID: B063738.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\111109\B063738.D Vial: 1
Acq On : 11 Nov 2009 1:23 pm Operator: AnaJ
Sample : CC2655-4 Inst : MSVOA4
Misc : ms13166,vb2655,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Nov 11 12:31:42 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	9.94
2		Dichlorodifluoromethane	0.222	0.235	-5.9	100	0.00	4.42
3	P	Chloromethane	0.312	0.304	2.6	98	0.00	4.74
4	C	Vinyl Chloride	0.323	0.312	3.4	97	0.00	4.98
			Amount	Calc.	%Drift			
5		Bromomethane	40.000	37.672	5.8	99	0.00	5.53
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.190	0.178	6.3	96	0.00	5.66
7		Trichlorofluoromethane	0.402	0.415	-3.2	100	0.00	6.10
8		Ethyl Ether	0.229	0.219	4.4	94	0.00	6.37
			Amount	Calc.	%Drift			
9		1,2-Dichlorotrifluoroetha	40.000	32.853	17.9	89	0.00	6.37
			AvgRF	CCRF	%Dev			
10		Freon 113	0.276	0.266	3.6	89	0.00	6.74
11	C	1,1-Dichloroethene	0.505	0.484	4.2	91	0.00	6.76
12		Acetone	0.097	0.091	6.2	96	0.00	6.72
13		Iodomethane	0.510	0.488	4.3	94	0.00	6.99
14		Carbon Disulfide	0.966	0.923	4.5	92	-0.01	7.14
15		Methyl acetate	0.248	0.241	2.8	94	0.00	7.11
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	36.571	8.6	95	0.00	7.31
			AvgRF	CCRF	%Dev			
17		Methyl Tert Butyl Ether	0.941	0.906	3.7	94	0.00	7.59
18		trans-1,2-Dichloroethene	0.520	0.490	5.8	90	0.00	7.63
19		Acrylonitrile	0.129	0.131	-1.6	97	0.00	7.53
20		Hexane	0.477	0.454	4.8	92	0.00	7.90
21		Di-isopropyl ether	1.338	1.289	3.7	94	0.00	8.09
22		Vinyl acetate	0.534	0.548	-2.6	97	0.00	8.05
23	P	1,1-Dichloroethane	0.654	0.630	3.7	93	0.00	8.10
24		ETBE	1.158	1.123	3.0	94	0.00	8.49
25		2-Butanone	0.160	0.154	3.8	93	0.00	8.66
26		2,2-Dichloropropane	0.444	0.436	1.8	94	0.00	8.75
27		cis-1,2-Dichloroethene	0.400	0.379	5.3	94	0.00	8.73
28		Bromochloromethane	0.179	0.175	2.2	94	0.00	8.99
			Amount	Calc.	%Drift			

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2655-CC2655
Lab FileID: B063738.D

29		Tetrahydrofuran	40.000	35.464	11.3	93	0.00	9.04
			AvgRF	CCRF	%Dev			
30	C	Chloroform	0.647	0.594	8.2	93	0.00	9.03
31	S	Dibromofluoromethane	0.265	0.269	-1.5	102	0.00	9.20
32		1,1,1-Trichloroethane	0.509	0.473	7.1	89	0.00	9.30
33		Cyclohexane	0.610	0.553	9.3	89	0.00	9.41
34		Carbon Tetrachloride	0.436	0.408	6.4	88	0.00	9.50
35		1,1-Dichloropropene	0.486	0.450	7.4	89	0.00	9.46
36	S	1,2-Dichloroethane-d4	0.303	0.304	-0.3	101	0.00	9.59
37		TAME	0.963	0.914	5.1	92	0.00	9.72
38		Benzene	1.439	1.358	5.6	92	0.00	9.69
39		1,2-Dichloroethane	0.499	0.479	4.0	94	0.00	9.67
40		Trichloroethene	0.367	0.339	7.6	90	0.00	10.33
41		Methylcyclohexane	0.543	0.498	8.3	88	0.00	10.59
42	C	1,2-Dichloropropane	0.395	0.376	4.8	93	0.00	10.58
43		Dibromomethane	0.218	0.209	4.1	93	0.00	10.71
44		Bromodichloromethane	0.490	0.475	3.1	93	0.00	10.82
45		2-Chloroethyl vinyl ether	0.239	0.234	2.1	94	0.00	11.04
46		2-Nitropropane	0.087	0.086	1.1	91	0.00	11.01
47		cis-1,3-Dichloropropene	0.593	0.594	-0.2	96	0.00	11.27
48		4-Methyl-2-pentanone	0.340	0.325	4.4	92	0.00	11.36
49	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.17
50	S	Toluene-d8	1.177	1.176	0.1	102	0.00	11.60
51	C	Toluene	1.628	1.498	8.0	90	0.00	11.67
52		trans-1,3-Dichloropropene	0.532	0.524	1.5	94	0.00	11.82
53		1,1,2-Trichloroethane	0.291	0.273	6.2	92	0.00	12.04
54		Tetrachloroethene	0.373	0.332	11.0	89	0.00	12.28
55		2-hexanone	0.249	0.240	3.6	93	0.00	12.22
56		1,3-Dichloropropane	0.587	0.557	5.1	93	0.00	12.24
57		Dibromochloromethane	0.366	0.355	3.0	93	0.00	12.52
58		1,2-Dibromoethane	0.342	0.323	5.6	92	0.00	12.69
59		1-Chlorohexane	0.532	0.483	9.2	88	0.00	13.06
60	P	Chlorobenzene	1.017	0.947	6.9	92	0.00	13.20
61	C	Ethylbenzene	1.765	1.643	6.9	92	0.00	13.26
62		1,1,1,2-Tetrachloroethane	0.345	0.328	4.9	93	0.00	13.25
63		m,p-Xylene	1.361	1.249	8.2	90	0.00	13.38
64		o-Xylene	1.398	1.303	6.8	92	0.00	13.83
65		Styrene	1.152	1.085	5.8	91	0.00	13.83
66	P	Bromoform	0.202	0.198	2.0	91	0.00	14.10
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.70
68		Isopropylbenzene	2.834	2.597	8.4	89	0.00	14.21
69		Cyclohexanone	0.023	0.021	8.7	95	0.00	14.36
70	S	4-Bromofluorobenzene	1.003	1.010	-0.7	102	0.00	14.41
71	P	1,1,2,2-Tetrachloroethane	0.743	0.718	3.4	95	0.00	14.49
72		trans-1,4-Dichloro-2-Bute	0.165	0.173	-4.8	99	0.00	14.54
73		n-Propylbenzene	3.796	3.511	7.5	90	0.00	14.66
74		Bromobenzene	0.808	0.752	6.9	92	0.00	14.64
75		1,2,3-Trichloropropane	0.209	0.198	5.3	93	0.00	14.58
76		1,3,5-Trimethylbenzene	2.576	2.407	6.6	91	0.00	14.82
77		2-Chlorotoluene	2.554	2.390	6.4	92	0.00	14.82
78		4-Chlorotoluene	2.382	2.230	6.4	93	0.00	14.92
79		tert-Butylbenzene	1.534	1.421	7.4	90	0.00	15.21
80		1,2,4-Trimethylbenzene	2.728	2.556	6.3	91	0.00	15.25
81		sec-Butylbenzene	3.220	2.993	7.0	90	0.00	15.45
82		4-Isopropyltoluene	2.574	2.429	5.6	91	0.00	15.58
83		1,3-Dichlorobenzene	1.455	1.353	7.0	92	0.00	15.64
84		1,4-Dichlorobenzene	1.486	1.386	6.7	92	0.00	15.73

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2655-CC2655
Lab FileID: B063738.D

		Amount	Calc.	%Drift			
85	Benzyl Chloride	40.000	37.476	6.3	98	0.00	15.84
		AvgRF	CCRF	%Dev			
86	n-Butylbenzene	2.606	2.425	6.9	90	0.00	16.03
87	1,2-Dichlorobenzene	1.371	1.282	6.5	92	0.00	16.16
88	1,2-Dibromo-3-Chloropropa	0.116	0.111	4.3	97	0.00	16.99
89	1,2,4-Trichlorobenzene	0.695	0.709	-2.0	100	0.00	17.96
90	Hexachlorobutadiene	0.300	0.277	7.7	91	0.00	18.12
91	Naphthalene	1.066	1.248	-17.1	113	0.00	18.30
92	1,2,3-Trichlorobenzene	0.178	0.244	-37.1#	131	0.00	18.60
93 I	Tert Butyl alcohol-d10	1.000	1.000	0.0	102	0.00	7.21
94	Acrolein	1.564	1.875	-19.9	126	0.00	6.55
95	Tert-Butyl Alcohol	1.162	1.119	3.7	95	0.00	7.30
96	Tert amyl alcohol	0.833	0.787	5.5	92	0.00	9.50
97	1,4-Dioxane	0.138	0.136	1.4	93	0.00	10.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B063733.D 8260B.M Wed Nov 11 14:19:40 2009

5.7.3

Instrument Performance Check (BFB)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VB2656-BFB	Injection Date:	11/12/09
Lab File ID:	B063769.D	Injection Time:	12:20
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18085	19.7		Pass
75	30.0 - 60.0% of mass 95	47170	51.4		Pass
95	Base peak, 100% relative abundance	91853	100.0		Pass
96	5.0 - 9.0% of mass 95	6463	7.0		Pass
173	Less than 2.0% of mass 174	206	0.22	(0.28) [a]	Pass
174	50.0 - 100.0% of mass 95	73437	80.0		Pass
175	5.0 - 9.0% of mass 174	5611	6.1	(7.6) [a]	Pass
176	95.0 - 101.0% of mass 174	73392	79.9	(99.9) [a]	Pass
177	5.0 - 9.0% of mass 176	5090	5.5	(6.9) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB2656-IC2656	B063770.D	11/12/09	12:45	00:25	Initial cal 1
VB2656-IC2656	B063771.D	11/12/09	13:11	00:51	Initial cal 2
VB2656-IC2656	B063772.D	11/12/09	13:38	01:18	Initial cal 3
VB2656-ICC2656	B063773.D	11/12/09	14:04	01:44	Initial cal 4
VB2656-IC2656	B063774.D	11/12/09	14:31	02:11	Initial cal 5
VB2656-IC2656	B063775.D	11/12/09	14:58	02:38	Initial cal 6
VB2656-ICV2656	B063776.D	11/12/09	15:24	03:04	Initial cal verification 4
VB2656-BS	B063777.D	11/12/09	15:56	03:36	Blank Spike
VB2656-MB	B063778.D	11/12/09	16:43	04:23	Method Blank
ZZZZZZ	B063779.D	11/12/09	17:10	04:50	(unrelated sample)
F69254-2	B063780.D	11/12/09	17:37	05:17	(used for QC only; not part of job F69228)
ZZZZZZ	B063781.D	11/12/09	18:03	05:43	(unrelated sample)
ZZZZZZ	B063782.D	11/12/09	18:30	06:10	(unrelated sample)
ZZZZZZ	B063783.D	11/12/09	18:57	06:37	(unrelated sample)
F69254-2MS	B063784.D	11/12/09	19:23	07:03	Matrix Spike
F69254-2MSD	B063785.D	11/12/09	19:49	07:29	Matrix Spike Duplicate
ZZZZZZ	B063786.D	11/12/09	20:16	07:56	(unrelated sample)
ZZZZZZ	B063787.D	11/12/09	20:44	08:24	(unrelated sample)
ZZZZZZ	B063788.D	11/12/09	21:10	08:50	(unrelated sample)
ZZZZZZ	B063789.D	11/12/09	21:36	09:16	(unrelated sample)
ZZZZZZ	B063790.D	11/12/09	22:03	09:43	(unrelated sample)
ZZZZZZ	B063791.D	11/12/09	22:30	10:10	(unrelated sample)
ZZZZZZ	B063792.D	11/12/09	22:57	10:37	(unrelated sample)
ZZZZZZ	B063793.D	11/12/09	23:23	11:03	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VB2656-BFB	Injection Date:	11/12/09
Lab File ID:	B063769.D	Injection Time:	12:20
Instrument ID:	GCMSB		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	B063794.D	11/12/09	23:50	11:30	(unrelated sample)
ZZZZZZ	B063795.D	11/13/09	00:17	11:57	(unrelated sample)

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2656-ICC2656
Lab FileID: B063773.D

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260B.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Thu Nov 12 15:25:56 2009
Response via : Initial Calibration

Calibration Files
1 =B063770.D 2 =B063771.D 3 =B063772.D 4 =B063773.D
5 =B063774.D 6 =B063775.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.191	0.222	0.166	0.173	0.167	0.195	0.186	11.73
3)	P	Chloromethane	0.367	0.417	0.284	0.306	0.286	0.313	0.329	15.96
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976								
		Response Ratio = 0.00000 + 0.27615 *A + 0.01685 *A^2								
4)	C	Vinyl Chloride	0.387	0.398	0.272	0.295	0.277	0.314	0.324	17.08
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9970								
		Response Ratio = 0.00000 + 0.25473 *A + 0.02744 *A^2								
5)		Bromomethane	0.309	0.293	0.202	0.217	0.204	0.238	0.244	19.07
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9960								
		Response Ratio = 0.00000 + 0.17913 *A + 0.02774 *A^2								
6)		Chloroethane	0.202	0.231	0.163	0.176	0.164	0.190	0.188	13.83
7)		Trichlorofluorometh	0.428	0.516	0.381	0.399	0.390	0.445	0.427	11.74
8)		Ethyl Ether	0.227	0.285	0.216	0.230	0.214	0.267	0.240	12.19
9)		1,2-Dichlorotrifluo	0.314	0.350	0.274	0.288	0.267	0.332	0.304	10.91
10)		Freon 113	0.251	0.283	0.225	0.236	0.232	0.278	0.251	9.84
11)	C	1,1-Dichloroethene	0.406	0.492	0.404	0.416	0.399	0.481	0.433	9.71
12)		Acetone	0.131	0.112	0.078	0.078	0.078	0.086	0.094	23.72
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988								
		Response Ratio = 0.00000 + 0.07129 *A + 0.00137 *A^2								
13)		Iodomethane	0.428	0.494	0.400	0.420	0.409	0.509	0.444	10.39
14)		Carbon Disulfide	0.788	0.859	0.721	0.766	0.732	0.893	0.793	8.77
15)		Methyl acetate	0.233	0.269	0.202	0.208	0.205	0.225	0.223	11.33
16)		Methylene Chloride	0.708	0.606	0.443	0.447	0.418	0.497	0.520	21.96
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9949								
		Response Ratio = 0.00000 + 0.37025 *A + 0.05847 *A^2								
17)		Methyl Tert Butyl E	0.747	0.915	0.735	0.764	0.770	0.894	0.804	9.83
18)		trans-1,2-Dichloroe	0.415	0.496	0.405	0.421	0.405	0.477	0.436	9.14
19)		Acrylonitrile	0.115	0.146	0.105	0.108	0.109	0.121	0.117	12.88
20)		Hexane	0.402	0.419	0.350	0.361	0.355	0.426	0.385	8.87
21)		Di-isopropyl ether	1.128	1.325	1.108	1.133	1.069	1.253	1.169	8.40
22)		Vinyl acetate	0.455	0.572	0.448	0.462	0.443	0.497	0.479	10.24
23)	P	1,1-Dichloroethane	0.561	0.644	0.535	0.551	0.527	0.625	0.574	8.48
24)		ETBE	0.862	1.053	0.885	0.925	0.907	1.084	0.953	9.74
25)		2-Butanone	0.139	0.170	0.127	0.133	0.135	0.146	0.142	10.70
26)		2,2-Dichloropropane	0.336	0.400	0.344	0.365	0.350	0.425	0.370	9.56
27)		cis-1,2-Dichloroeth	0.310	0.364	0.301	0.313	0.310	0.371	0.328	9.43
28)		Bromochloromethane	0.143	0.176	0.149	0.151	0.149	0.180	0.158	10.09
29)		Tetrahydrofuran	0.174	0.119	0.082	0.084	0.086	0.093	0.106	33.70
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.07676 *A + 0.00763 *A^2								

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2656-ICC2656
Lab FileID: B063773.D

30)	C	Chloroform	0.609	0.622	0.492	0.503	0.487	0.584	0.550	11.26
31)	S	Dibromofluoromethan	0.255	0.260	0.257	0.258	0.259	0.257	0.258	0.63
32)		1,1,1-Trichloroetha	0.358	0.446	0.381	0.397	0.390	0.474	0.408	10.69
33)		Cyclohexane	0.472	0.533	0.451	0.471	0.467	0.559	0.492	8.79
34)		Carbon Tetrachlorid	0.325	0.389	0.340	0.362	0.364	0.441	0.370	11.08
35)		1,1-Dichloropropene	0.395	0.460	0.377	0.395	0.389	0.464	0.414	9.26
36)	S	1,2-Dichloroethane-	0.307	0.314	0.304	0.301	0.297	0.286	0.302	3.11
37)		TAME	0.718	0.907	0.745	0.790	0.782	0.920	0.810	10.38
38)		Benzene	1.180	1.382	1.135	1.174	1.135	1.361	1.228	9.21
39)		1,2-Dichloroethane	0.429	0.505	0.405	0.416	0.396	0.464	0.436	9.47
40)		Trichloroethene	0.309	0.329	0.277	0.287	0.280	0.337	0.303	8.56
41)		Methylcyclohexane	0.421	0.472	0.407	0.423	0.431	0.519	0.445	9.48
42)	C	1,2-Dichloropropane	0.316	0.391	0.322	0.331	0.317	0.382	0.343	9.92
43)		Dibromomethane	0.177	0.214	0.175	0.181	0.178	0.213	0.190	9.68
44)		Bromodichloromethan	0.335	0.436	0.381	0.401	0.389	0.468	0.402	11.51
45)		2-Chloroethyl vinyl	0.180	0.239	0.201	0.213	0.206	0.232	0.212	10.21
46)		2-Nitropropane	0.058	0.077	0.069	0.076	0.078	0.085	0.074	12.47
47)		cis-1,3-Dichloropro	0.409	0.540	0.476	0.508	0.496	0.598	0.505	12.51
48)		4-Methyl-2-pentanon	0.273	0.356	0.277	0.290	0.287	0.307	0.298	10.22
49)	I	Chlorobenzene-d5	----------ISTD----------							
50)	S	Toluene-d8	1.325	1.336	1.331	1.323	1.303	1.316	1.322	0.89
51)	C	Toluene	1.708	1.945	1.591	1.646	1.570	1.888	1.724	9.11
52)		trans-1,3-Dichlorop	0.460	0.601	0.536	0.577	0.566	0.672	0.569	12.36
53)		1,1,2-Trichloroetha	0.301	0.362	0.287	0.299	0.294	0.347	0.315	9.91
54)		Tetrachloroethene	0.422	0.450	0.378	0.394	0.391	0.480	0.419	9.39
55)		2-hexanone	0.238	0.331	0.257	0.268	0.271	0.286	0.275	11.59
56)		1,3-Dichloropropane	0.639	0.761	0.610	0.640	0.627	0.726	0.667	9.15
57)		Dibromochloromethan	0.293	0.398	0.366	0.391	0.395	0.480	0.387	15.48
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9971								
		Response Ratio = 0.00000 + 0.29564 *A + 0.08858 *A^2								
58)		1,2-Dibromoethane	0.332	0.426	0.336	0.356	0.357	0.419	0.371	11.16
59)		1-Chlorohexane	0.485	0.562	0.496	0.527	0.530	0.641	0.540	10.42
60)	P	Chlorobenzene	1.072	1.252	1.038	1.065	1.041	1.262	1.122	9.42
61)	C	Ethylbenzene	1.802	2.069	1.754	1.808	1.739	2.072	1.874	8.25
62)		1,1,1,2-Tetrachloro	0.318	0.405	0.362	0.388	0.384	0.476	0.389	13.46
63)		m,p-Xylene	1.383	1.619	1.353	1.409	1.334	1.572	1.445	8.31
64)		o-Xylene	1.396	1.657	1.402	1.483	1.421	1.695	1.509	8.85
65)		Styrene	0.988	1.300	1.161	1.270	1.235	1.499	1.242	13.53
66)	P	Bromoform	0.155	0.211	0.201	0.230	0.245	0.294	0.223	20.93
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988								
		Response Ratio = 0.00000 + 0.16896 *A + 0.06144 *A^2								
67)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
68)		Isopropylbenzene	2.845	3.278	2.760	2.856	2.782	3.443	2.994	9.71
69)		Cyclohexanone	0.017	0.029	0.020	0.021	0.022	0.025	0.022	19.21
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.01819 *A + 0.00067 *A^2								
70)	S	4-Bromofluorobenzen	0.959	0.940	0.930	0.914	0.919	0.926	0.931	1.76
71)	P	1,1,2,2-Tetrachloro	0.769	0.956	0.739	0.761	0.765	0.891	0.814	10.86
72)		trans-1,4-Dichloro-	0.111	0.113	0.127	0.158	0.176	0.206	0.148	25.75
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.11501 *A + 0.04531 *A^2								
73)		n-Propylbenzene	3.984	4.423	3.750	3.841	3.654	4.433	4.014	8.43
74)		Bromobenzene	0.922	1.019	0.843	0.883	0.870	1.095	0.939	10.46

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2656-ICC2656
Lab FileID: B063773.D

75)	1,2,3-Trichloroprop	0.217	0.264	0.212	0.218	0.219	0.257	0.231	9.95
76)	1,3,5-Trimethylbenz	2.560	3.056	2.600	2.733	2.655	3.262	2.811	10.08
77)	2-Chlorotoluene	2.666	3.026	2.563	2.620	2.527	3.089	2.749	8.91
78)	4-Chlorotoluene	2.424	2.829	2.308	2.364	2.270	2.779	2.496	9.82
79)	tert-Butylbenzene	1.714	1.734	1.477	1.540	1.484	1.830	1.630	9.13
80)	1,2,4-Trimethylbenz	2.628	3.184	2.757	2.849	2.722	3.359	2.917	9.91
81)	sec-Butylbenzene	3.230	3.763	3.223	3.334	3.269	3.967	3.464	9.23
82)	4-Isopropyltoluene	2.469	2.983	2.577	2.730	2.669	3.251	2.780	10.36
83)	1,3-Dichlorobenzene	1.663	1.864	1.503	1.580	1.529	1.889	1.671	10.06
84)	1,4-Dichlorobenzene	1.721	1.939	1.548	1.610	1.568	1.924	1.718	10.22
85)	Benzyl Chloride	0.808	1.149	1.143	1.323	1.392	1.628	1.240	22.36

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991
Response Ratio = 0.00000 + 1.01838 *A + 0.29899 *A^2

86)	n-Butylbenzene	2.701	2.981	2.598	2.668	2.572	3.101	2.770	7.88
87)	1,2-Dichlorobenzene	1.517	1.756	1.443	1.502	1.471	1.794	1.580	9.70
88)	1,2-Dibromo-3-Chlor	0.125	0.134	0.105	0.112	0.119	0.136	0.122	9.99
89)	1,2,4-Trichlorobenz	0.998	1.006	0.850	0.856	0.863	1.046	0.937	9.56
90)	Hexachlorobutadiene	0.481	0.437	0.361	0.375	0.385	0.473	0.419	12.40
91)	Naphthalene	1.542	1.274	1.129	1.138	1.193	1.347	1.271	12.35
92)	1,2,3-Trichlorobenz	0.330	0.298	0.283	0.231	0.251	0.287	0.280	12.49

93)	I Tert Butyl alcohol-d1	----------ISTD----------							
94)	Acrolein	2.396	2.428	2.195	2.050	2.136	2.833	2.340	12.10
95)	Tert-Butyl Alcohol	1.253	1.526	1.260	1.304	1.297	1.573	1.369	10.39
96)	Tert amyl alcohol	0.800	1.017	0.877	0.968	0.995	1.192	0.975	13.74
97)	1,4-Dioxane	0.123	0.163	0.158	0.161	0.157	0.199	0.160	14.92

(#) = Out of Range

8260B.M Thu Nov 12 15:48:16 2009

5.7.4

5

Instrument Performance Check (BFB)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VB2657-BFB	Injection Date:	11/13/09
Lab File ID:	B063797.D	Injection Time:	07:50
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17735	20.7		Pass
75	30.0 - 60.0% of mass 95	43685	51.0		Pass
95	Base peak, 100% relative abundance	85629	100.0		Pass
96	5.0 - 9.0% of mass 95	5691	6.6		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	69368	81.0		Pass
175	5.0 - 9.0% of mass 174	4745	5.5	(6.8) [a]	Pass
176	95.0 - 101.0% of mass 174	68288	79.7	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	4670	5.5	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB2657-CC2656	B063798.D	11/13/09	08:23	00:33	Continuing cal 4
VB2657-BS	B063799.D	11/13/09	09:00	01:10	Blank Spike
VB2657-MB	B063801.D	11/13/09	10:04	02:14	Method Blank
F69228-6	B063802.D	11/13/09	10:38	02:48	TFS-MW-10-1109
F69228-7	B063803.D	11/13/09	11:04	03:14	TFS-MW-13-1109
ZZZZZZ	B063804.D	11/13/09	11:31	03:41	(unrelated sample)
ZZZZZZ	B063805.D	11/13/09	11:57	04:07	(unrelated sample)
ZZZZZZ	B063806.D	11/13/09	12:24	04:34	(unrelated sample)
ZZZZZZ	B063807.D	11/13/09	12:51	05:01	(unrelated sample)
F69224-26	B063808.D	11/13/09	13:18	05:28	(used for QC only; not part of job F69228)
ZZZZZZ	B063809.D	11/13/09	13:44	05:54	(unrelated sample)
ZZZZZZ	B063810.D	11/13/09	14:11	06:21	(unrelated sample)
ZZZZZZ	B063811.D	11/13/09	14:37	06:47	(unrelated sample)
F69224-26MS	B063812.D	11/13/09	15:04	07:14	Matrix Spike
F69224-26MSD	B063813.D	11/13/09	15:30	07:40	Matrix Spike Duplicate
ZZZZZZ	B063817.D	11/13/09	17:16	09:26	(unrelated sample)
ZZZZZZ	B063818.D	11/13/09	17:43	09:53	(unrelated sample)
ZZZZZZ	B063819.D	11/13/09	18:09	10:19	(unrelated sample)
ZZZZZZ	B063820.D	11/13/09	18:36	10:46	(unrelated sample)
ZZZZZZ	B063821.D	11/13/09	19:03	11:13	(unrelated sample)
ZZZZZZ	B063822.D	11/13/09	19:29	11:39	(unrelated sample)

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2657-CC2656
Lab FileID: B063798.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\111309\B063798.D Vial: 1
Acq On : 13 Nov 2009 8:23 am Operator: AnaJ
Sample : CC2656-4 Inst : MSVOA4
Misc : ms13183,vb2657,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Thu Nov 12 15:25:56 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	83	0.00	9.94
2		Dichlorodifluoromethane	0.186	0.173	7.0	83	0.00	4.43
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	41.603	-4.0	82	0.00	4.73
4	C	Vinyl Chloride	40.000	40.823	-2.1	80	0.00	4.98
5		Bromomethane	40.000	41.632	-4.1	81	0.00	5.53
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.188	0.173	8.0	82	0.00	5.66
7		Trichlorofluoromethane	0.427	0.435	-1.9	90	0.00	6.10
8		Ethyl Ether	0.240	0.220	8.3	79	0.00	6.37
9		1,2-Dichlorotrifluoroetha	0.304	0.296	2.6	85	0.00	6.37
10		Freon 113	0.251	0.247	1.6	87	0.00	6.74
11	C	1,1-Dichloroethene	0.433	0.427	1.4	85	0.00	6.76
			Amount	Calc.	%Drift			
12		Acetone	200.000	201.652	-0.8	82	0.00	6.72
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.444	0.417	6.1	82	0.00	7.00
14		Carbon Disulfide	0.793	0.794	-0.1	86	0.00	7.14
15		Methyl acetate	0.223	0.203	9.0	81	0.00	7.11
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	44.744	-11.9	88	0.00	7.30
			AvgRF	CCRF	%Dev			
17		Methyl Tert Butyl Ether	0.804	0.737	8.3	80	0.00	7.60
18		trans-1,2-Dichloroethene	0.436	0.431	1.1	85	0.00	7.63
19		Acrylonitrile	0.117	0.109	6.8	84	0.00	7.53
20		Hexane	0.385	0.375	2.6	86	0.00	7.90
21		Di-isopropyl ether	1.169	1.161	0.7	85	0.00	8.08
22		Vinyl acetate	0.479	0.473	1.3	85	0.00	8.05
23	P	1,1-Dichloroethane	0.574	0.573	0.2	86	0.00	8.09
24		ETBE	0.953	0.899	5.7	81	0.00	8.49
25		2-Butanone	0.142	0.129	9.2	80	0.00	8.66
26		2,2-Dichloropropane	0.370	0.398	-7.6	90	0.00	8.76
27		cis-1,2-Dichloroethene	0.328	0.313	4.6	83	0.00	8.73
28		Bromochloromethane	0.158	0.149	5.7	82	0.00	8.99
			Amount	Calc.	%Drift			

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2657-CC2656
Lab FileID: B063798.D

29		Tetrahydrofuran	40.000	38.117	4.7	78	-0.01	9.04
			AvgRF	CCRF	%Dev			
30	C	Chloroform	0.550	0.523	4.9	86	0.00	9.02
31	S	Dibromofluoromethane	0.258	0.254	1.6	82	0.00	9.20
32		1,1,1-Trichloroethane	0.408	0.401	1.7	84	0.00	9.30
33		Cyclohexane	0.492	0.479	2.6	84	0.00	9.40
34		Carbon Tetrachloride	0.370	0.375	-1.4	86	0.00	9.50
35		1,1-Dichloropropene	0.414	0.399	3.6	84	0.00	9.46
36	S	1,2-Dichloroethane-d4	0.302	0.304	-0.7	84	0.00	9.58
37		TAME	0.810	0.772	4.7	81	0.00	9.72
38		Benzene	1.228	1.177	4.2	83	0.00	9.69
39		1,2-Dichloroethane	0.436	0.421	3.4	84	0.00	9.67
40		Trichloroethene	0.303	0.289	4.6	84	0.00	10.33
41		Methylcyclohexane	0.445	0.437	1.8	86	0.00	10.59
42	C	1,2-Dichloropropane	0.343	0.336	2.0	84	0.00	10.57
43		Dibromomethane	0.190	0.181	4.7	83	0.00	10.71
44		Bromodichloromethane	0.402	0.400	0.5	83	0.00	10.82
45		2-Chloroethyl vinyl ether	0.212	0.208	1.9	81	0.00	11.04
46		2-Nitropropane	0.074	0.074	0.0	80	0.00	11.01
47		cis-1,3-Dichloropropene	0.505	0.511	-1.2	83	0.00	11.28
48		4-Methyl-2-pentanone	0.298	0.288	3.4	82	0.00	11.36
49	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	13.17
50	S	Toluene-d8	1.322	1.303	1.4	83	0.00	11.60
51	C	Toluene	1.724	1.668	3.2	85	0.00	11.67
52		trans-1,3-Dichloropropene	0.569	0.570	-0.2	83	0.00	11.82
53		1,1,2-Trichloroethane	0.315	0.298	5.4	84	0.00	12.04
54		Tetrachloroethene	0.419	0.400	4.5	86	0.00	12.29
55		2-hexanone	0.275	0.265	3.6	84	0.00	12.22
56		1,3-Dichloropropane	0.667	0.637	4.5	84	0.00	12.24
			Amount	Calc.	%Drift			
57		Dibromochloromethane	40.000	41.422	-3.6	82	0.00	12.52
			AvgRF	CCRF	%Dev			
58		1,2-Dibromoethane	0.371	0.348	6.2	82	0.00	12.69
59		1-Chlorohexane	0.540	0.534	1.1	85	0.00	13.06
60	P	Chlorobenzene	1.122	1.083	3.5	86	0.00	13.20
61	C	Ethylbenzene	1.874	1.860	0.7	87	0.00	13.26
62		1,1,1,2-Tetrachloroethane	0.389	0.391	-0.5	85	0.00	13.25
63		m,p-Xylene	1.445	1.455	-0.7	87	0.00	13.37
64		o-Xylene	1.509	1.541	-2.1	88	0.00	13.83
65		Styrene	1.242	1.282	-3.2	85	0.00	13.83
			Amount	Calc.	%Drift			
66	P	Bromoform	40.000	41.061	-2.7	83	0.00	14.10
			AvgRF	CCRF	%Dev			
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	15.70
68		Isopropylbenzene	2.994	2.850	4.8	88	0.00	14.21
			Amount	Calc.	%Drift			
69		Cyclohexanone	200.000	194.735	2.6	84	0.00	14.36
			AvgRF	CCRF	%Dev			
70	S	4-Bromofluorobenzene	0.931	0.908	2.5	87	0.00	14.41
71	P	1,1,2,2-Tetrachloroethane	0.814	0.745	8.5	86	0.00	14.49

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VB2657-CC2656
Lab FileID: B063798.D

		Amount	Calc.	%Drift			
72	trans-1,4-Dichloro-2-Bute	40.000	41.934	-4.8	89	0.00	14.54
		AvgRF	CCRF	%Dev			
73	n-Propylbenzene	4.014	3.899	2.9	89	0.00	14.66
74	Bromobenzene	0.939	0.870	7.3	87	0.00	14.63
75	1,2,3-Trichloropropane	0.231	0.209	9.5	84	0.00	14.58
76	1,3,5-Trimethylbenzene	2.811	2.737	2.6	88	0.00	14.82
77	2-Chlorotoluene	2.749	2.675	2.7	90	0.00	14.82
78	4-Chlorotoluene	2.496	2.421	3.0	90	0.00	14.92
79	tert-Butylbenzene	1.630	1.548	5.0	88	0.00	15.21
80	1,2,4-Trimethylbenzene	2.917	2.857	2.1	88	0.00	15.25
81	sec-Butylbenzene	3.464	3.396	2.0	90	0.00	15.45
82	4-Isopropyltoluene	2.780	2.774	0.2	89	0.00	15.58
83	1,3-Dichlorobenzene	1.671	1.589	4.9	88	0.00	15.64
84	1,4-Dichlorobenzene	1.718	1.610	6.3	88	0.00	15.73
		Amount	Calc.	%Drift			
85	Benzyl Chloride	40.000	42.860	-7.1	91	0.00	15.84
		AvgRF	CCRF	%Dev			
86	n-Butylbenzene	2.770	2.750	0.7	91	0.00	16.03
87	1,2-Dichlorobenzene	1.580	1.507	4.6	88	0.00	16.16
88	1,2-Dibromo-3-Chloropropa	0.122	0.107	12.3	84	0.00	16.99
89	1,2,4-Trichlorobenzene	0.937	0.899	4.1	92	0.00	17.96
90	Hexachlorobutadiene	0.419	0.379	9.5	89	0.00	18.12
91	Naphthalene	1.271	1.232	3.1	95	0.00	18.30
92	1,2,3-Trichlorobenzene	0.280	0.353	-26.1#	134	0.00	18.60
93 I	Tert Butyl alcohol-d10	1.000	1.000	0.0	77	0.00	7.21
94	Acrolein	2.340	2.272	2.9	85	0.00	6.55
95	Tert-Butyl Alcohol	1.369	1.330	2.8	78	0.00	7.30
96	Tert amyl alcohol	0.975	0.967	0.8	77	0.00	9.50
97	1,4-Dioxane	0.160	0.169	-5.6	81	0.00	10.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B063773.D 8260B.M Mon Nov 16 08:50:15 2009

5.7.6 5

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2655-MB	B063740.D	1	11/11/09	AJ	n/a	n/a	VB2655

The QC reported here applies to the following samples: Method: SW846 8260B

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-8, F69228-9

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2655-MB	B063740.D	1	11/11/09	AJ	n/a	n/a	VB2655

The QC reported here applies to the following samples: Method: SW846 8260B

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-8, F69228-9

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	104%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	102%	84-120%

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2657-MB	B063801.D	1	11/13/09	AJ	n/a	n/a	VB2657

The QC reported here applies to the following samples: Method: SW846 8260B

F69228-6, F69228-7

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2657-MB	B063801.D	1	11/13/09	AJ	n/a	n/a	VB2657

The QC reported here applies to the following samples: Method: SW846 8260B

F69228-6, F69228-7

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	106%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GDD1527-ICC1527	Injection Date:	11/04/09
Lab File ID:	DD52704.D	Injection Time:	16:09
Instrument ID:	GCDD	Method:	EPA 504.1

	S1 [a] RT
Check Std	6.85

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30795-BS	DD52710.D	11/04/09	18:11	6.85
OP30795-BS2	DD52711.D	11/04/09	18:31	6.85
OP30795-MB	DD52712.D	11/04/09	18:51	6.85
ZZZZZZ	DD52713.D	11/04/09	19:11	6.85
ZZZZZZ	DD52714.D	11/04/09	19:32	6.85
ZZZZZZ	DD52715.D	11/04/09	19:52	6.85
ZZZZZZ	DD52716.D	11/04/09	20:12	6.85
ZZZZZZ	DD52717.D	11/04/09	20:32	6.85

Surrogate Compounds

S1 = 4-Bromofluorobenzene

(a) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GDD1527-CC1527	Injection Date:	11/04/09
Lab File ID:	DD52718.D	Injection Time:	20:52
Instrument ID:	GCDD	Method:	EPA 504.1

	S1 [a] RT
Check Std	6.85

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
ZZZZZZ	DD52721.D	11/04/09	21:53	6.85
ZZZZZZ	DD52722.D	11/04/09	22:13	6.86
ZZZZZZ	DD52723.D	11/04/09	22:33	6.85
ZZZZZZ	DD52724.D	11/04/09	22:53	6.85
F69203-6	DD52725.D	11/04/09	23:14	6.85
OP30795-MS	DD52726.D	11/04/09	23:34	6.85
OP30795-MSD	DD52727.D	11/04/09	23:54	6.85

Surrogate Compounds

S1 = 4-Bromofluorobenzene

(a) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GDD1527-CC1527	Injection Date:	11/05/09
Lab File ID:	DD52728.D	Injection Time:	00:14
Instrument ID:	GCDD	Method:	EPA 504.1

	S1 [a] RT	S1 [b] RT
Check Std	6.79	6.85

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	DD52730.D	11/05/09	00:54		6.85
ZZZZZZ	DD52731.D	11/05/09	01:14		6.85
ZZZZZZ	DD52732.D	11/05/09	01:34		6.85
F69228-1	DD52733.D	11/05/09	01:55		6.85
F69228-2	DD52734.D	11/05/09	02:15		6.85
F69228-3	DD52735.D	11/05/09	02:35		6.85
F69228-4	DD52736.D	11/05/09	02:55		6.85
F69228-5	DD52737.D	11/05/09	03:15		6.85
F69228-6	DD52738.D	11/05/09	03:35		6.85
GDD1527-ECC1527	DD52739.D	11/05/09	03:56	6.79	6.85

Surrogate Compounds

S1 = 4-Bromofluorobenzene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GDD1528-CC1527	Injection Date:	11/05/09
Lab File ID:	DD52740.D	Injection Time:	10:44
Instrument ID:	GCDD	Method:	EPA 504.1

	S1 [a] RT	S1 [b] RT
Check Std	6.80	6.86

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP30795-MB	DD52741.D	11/05/09	11:05		6.85
ZZZZZZ	DD52742.D	11/05/09	11:25	6.79	
GDD1528-ECC1527	DD52743.D	11/05/09	11:45	6.79	6.85

Surrogate Compounds

S1 = 4-Bromofluorobenzene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

9.5.4

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GDD1533-ICC1533	Injection Date:	11/12/09
Lab File ID:	DD52816.D	Injection Time:	13:47
Instrument ID:	GCDD	Method:	EPA 504.1

	S1 [a] RT
Check Std	6.80

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30883-BS	DD52822.D	11/12/09	15:49	6.80
OP30883-MB	DD52823.D	11/12/09	16:10	6.80
F69228-7	DD52824.D	11/12/09	16:30	6.80
F69228-8	DD52825.D	11/12/09	16:50	6.80
OP30883-MS	DD52826.D	11/12/09	17:10	6.80
OP30883-MSD	DD52827.D	11/12/09	17:30	6.80
ZZZZZZ	DD52828.D	11/12/09	17:51	6.80
ZZZZZZ	DD52829.D	11/12/09	18:11	6.80
ZZZZZZ	DD52830.D	11/12/09	18:31	6.80
ZZZZZZ	DD52831.D	11/12/09	18:51	6.80

Surrogate Compounds

S1 = 4-Bromofluorobenzene

(a) Retention time from GC signal #2

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1527-ICC1527
Lab FileID: DD52704.D

Response Factor Report ECD 4

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 05 09:57:22 2009
Response via : Initial Calibration

Calibration Files
1 =DD52707.D .75 =DD52706.D .50 =DD52705.D .25 =DD52704.D
0.1 =DD52703.D 0.02 =DD52702.D

	Compound	1	.75	.50	.25	0.1	0.02	Avg		%RSD
1)	1,2-Dibromoethane	4.298	4.334	4.322	4.427	4.663	4.359	4.401	E7	3.09
2) S	4-Bromofluorobenzen	2.533	2.602	2.742	2.522	2.136	1.662	2.366	E6	16.89
3)	1,2,3-Trichloroprop	5.553	5.573	5.394	4.912	6.484		5.583	E6	10.21
4)	1,2-Dibromo-3-chlor	0.883	0.911	0.861	0.887	0.939	1.141	0.937	E8	11.05

Signal #2

1)	1,2-Dibromoethane	1.435	1.427	1.445	1.485	1.461	1.475	1.455	E7	1.57
2) S	4-Bromofluorobenzen	8.980	9.803	9.891	8.366	8.157	6.076	8.545	E5	16.43
3)	1,2,3-Trichloroprop	2.072	2.037	1.781	1.866	2.076		1.966	E6	6.86
4)	1,2-Dibromo-3-chlor	3.071	2.997	2.856	2.689	2.723	2.890	2.871	E7	5.19

(#) = Out of Range

504_1.M Thu Nov 05 11:40:07 2009

9.6.1

Initial Calibration Verification

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1527-ICV1527
Lab FileID: DD52709.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\2\DATA\1104EDB\DD52709.D\ECD1A.CH  Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\1104EDB\DD52709.D\ECD2B.CH
Acq On    :  4 Nov 2009   5:50 pm                    Operator: britneyr
Sample    : icv1527-0.25                             Inst    : ECD 4
Misc      : op30795,gdd1527,35.0,,,2,1,water         Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E

Method       : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title        : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update  : Thu Nov 05 09:57:22 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.250	0.251	-0.4	100	0.00	4.95- 5.15
2 S	4-Bromofluorobenzene		----------NA----------				
3	1,2,3-Trichloropropane	0.250	0.257	-2.8	117	0.00	6.72- 6.92
4	1,2-Dibromo-3-chloropr	0.250	0.242	3.2	102	0.00	8.75- 8.95
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.250	0.235	6.0	92	0.00	5.01- 5.21
2 S	4-Bromofluorobenzene		----------NA----------				
3	1,2,3-Trichloropropane	0.250	0.255	-2.0	107	0.00	6.69- 6.89
4	1,2-Dibromo-3-chloropr	0.250	0.241	3.6	103	0.00	8.58- 8.78

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 DD52704.D  504_1.M          Thu Nov 05 11:40:31 2009
```

9.6.2

9

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1527-CC1527
Lab FileID: DD52718.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\1104EDB\DD52718.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\1104EDB\DD52718.D\ECD2B.CH
Acq On : 4 Nov 2009 8:52 pm Operator: britneyr
Sample : cc1527-0.25 Inst : ECD 4
Misc : op30795,gdd1527,35.0,,,2,1,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 05 09:57:22 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.250	0.243	2.8	96	0.00	4.95- 5.15
2 S	4-Bromofluorobenzene	2.000	1.976	1.2	93	0.00	6.69- 6.89
3	1,2,3-Trichloropropane	0.250	0.235	6.0	107	0.00	6.72- 6.92
4	1,2-Dibromo-3-chloropr	0.250	0.227	9.2	96	0.00	8.75- 8.95
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.250	0.238	4.8	93	0.00	5.01- 5.21
2 S	4-Bromofluorobenzene	2.000	1.988	0.6	102	0.00	6.75- 6.95
3	1,2,3-Trichloropropane	0.250	0.245	2.0	103	0.00	6.69- 6.89
4	1,2-Dibromo-3-chloropr	0.250	0.232	7.2	99	0.00	8.58- 8.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
DD52704.D 504_1.M Thu Nov 05 11:40:33 2009

9.6.3

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1527-CC1527
Lab FileID: DD52728.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\1104EDB\DD52728.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\1104EDB\DD52728.D\ECD2B.CH
Acq On : 5 Nov 2009 12:14 am Operator: britneyr
Sample : cc1527-0.50 Inst : ECD 4
Misc : op30795,gdd1527,35.0,,,2,1,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 05 09:57:22 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.500	0.484	3.2	98	0.00	4.95- 5.15
2 S	4-Bromofluorobenzene	4.000	4.443	-11.1	96	0.00	6.69- 6.89
3	1,2,3-Trichloropropane	0.500	0.457	8.6	95	0.00	6.72- 6.92
4	1,2-Dibromo-3-chloropr	0.500	0.430	14.0	94	0.00	8.75- 8.95
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.500	0.480	4.0	97	0.00	5.01- 5.21
2 S	4-Bromofluorobenzene	4.000	4.424	-10.6	96	0.00	6.75- 6.95
3	1,2,3-Trichloropropane	0.500	0.523	-4.6	115	0.00	6.69- 6.89
4	1,2-Dibromo-3-chloropr	0.500	0.486	2.8	98	0.00	8.58- 8.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
DD52705.D 504_1.M Thu Nov 05 11:41:03 2009

9.6.4

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1527-ECC1527
Lab FileID: DD52739.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\2\DATA\1104EDB\DD52739.D\ECD1A.CH  Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\1104EDB\DD52739.D\ECD2B.CH
Acq On    :  5 Nov 2009   3:56 am                    Operator: britneyr
Sample    : ecc1527-0.25                             Inst    : ECD 4
Misc      : op30795,gdd1527,35.0,,,2,1,water         Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E

Method       : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title        : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update  : Thu Nov 05 09:57:22 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.250	0.250	0.0	99	0.00	4.95- 5.15
2 S	4-Bromofluorobenzene	2.000	1.939	3.0	91	0.00	6.69- 6.89
3	1,2,3-Trichloropropane	0.250	0.221	11.6	100	0.00	6.72- 6.92
4	1,2-Dibromo-3-chloropr	0.250	0.229	8.4	97	0.00	8.75- 8.95
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.250	0.241	3.6	94	0.00	5.01- 5.21
2 S	4-Bromofluorobenzene	2.000	2.175	-8.7	111	0.00	6.75- 6.95
3	1,2,3-Trichloropropane	0.250	0.242	3.2	102	0.00	6.69- 6.89
4	1,2-Dibromo-3-chloropr	0.250	0.242	3.2	103	0.00	8.58- 8.78

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 DD52704.D  504_1.M          Thu Nov 05 11:40:34 2009
```

9.6.5

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1528-CC1527
Lab FileID: DD52740.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\1105EDB\DD52740.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\1105EDB\DD52740.D\ECD2B.CH
Acq On : 5 Nov 2009 10:44 am Operator: britneyr
Sample : cc1527-0.25 Inst : ECD 4
Misc : op30795,gdd1528,35.0,,,2,1,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 05 09:57:22 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.250	0.242	3.2	96	0.00	4.95- 5.15
2 S	4-Bromofluorobenzene	2.000	1.925	3.7	90	0.00	6.69- 6.89
3	1,2,3-Trichloropropane	0.250	0.235	6.0	107	0.00	6.72- 6.92
4	1,2-Dibromo-3-chloropr	0.250	0.239	4.4	101	0.00	8.75- 8.95
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.250	0.250	0.0	98	0.00	5.01- 5.21
2 S	4-Bromofluorobenzene	2.000	1.891	5.4	97	0.00	6.75- 6.95
3	1,2,3-Trichloropropane	0.250	0.237	5.2	100	0.00	6.69- 6.89
4	1,2-Dibromo-3-chloropr	0.250	0.226	9.6	96	0.00	8.58- 8.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
DD52704.D 504_1.M Thu Nov 05 13:05:59 2009

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1528-ECC1527
Lab FileID: DD52743.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\2\DATA\1105EDB\DD52743.D\ECD1A.CH  Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\1105EDB\DD52743.D\ECD2B.CH
Acq On    :  5 Nov 2009  11:45 am                    Operator: britneyr
Sample    : ecc1527-0.25                             Inst    : ECD 4
Misc      : op30795,gdd1528,35.0,,,2,4,water         Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E

Method       : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title        : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update  : Thu Nov 05 09:57:22 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.250	0.252	-0.8	100	0.00	4.95- 5.15
2 S	4-Bromofluorobenzene	2.000	1.967	1.6	92	0.00	6.69- 6.89
3	1,2,3-Trichloropropane	0.250	0.220	12.0	100	0.00	6.72- 6.92
4	1,2-Dibromo-3-chloropr	0.250	0.235	6.0	99	0.00	8.75- 8.95
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.250	0.231	7.6	91	0.00	5.01- 5.21
2 S	4-Bromofluorobenzene	2.000	1.877	6.2	96	0.00	6.75- 6.95
3	1,2,3-Trichloropropane	0.250	0.215	14.0	91	0.00	6.69- 6.89
4	1,2-Dibromo-3-chloropr	0.250	0.241	3.6	103	0.00	8.58- 8.78

```
   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    DD52704.D  504_1.M          Thu Nov 05 13:06:00 2009
```

9.6.7

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1533-ICC1533
Lab FileID: DD52816.D

Response Factor Report ECD 4

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 12 15:07:42 2009
Response via : Initial Calibration

Calibration Files
1 =DD52819.D .75 =DD52818.D .50 =DD52817.D .25 =DD52816.D
0.1 =DD52815.D 0.02 =DD52814.D

	Compound	1	.75	.50	.25	0.1	0.02	Avg		%RSD
1)	1,2-Dibromoethane	3.496	3.628	3.832	3.797	3.957	4.508	3.870	E7	9.10
2) S	4-Bromofluorobenzen	2.111	2.272	2.295	2.345	2.618	1.659	2.217	E6	14.40
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
	Response Ratio = 0.00000 + 2523294.60313 *A + -49675.31750 *A^2									
3)	1,2,3-Trichloroprop	4.642	4.922	5.957	5.893	4.700		5.223	E6	12.44
4)	1,2-Dibromo-3-chlor	0.756	0.758	0.797	0.796	0.845	1.024	0.829	E8	12.16
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 81837603.63224 *A + -6594188.86527 *A^2									

Signal #2

1)	1,2-Dibromoethane	1.325	1.325	1.352	1.314	1.352	1.758	1.404	E7	12.38
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 13492789.10952 *A + -248038.82371 *A^2									
2) S	4-Bromofluorobenzen	8.825	9.113	9.236	9.111	9.477	6.482	8.707	E5	12.75
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 956396.22533 *A + -8835.13470 *A^2									
3)	1,2,3-Trichloroprop	2.052	2.161	2.249	2.121	2.276		2.172	E6	4.23
4)	1,2-Dibromo-3-chlor	2.895	2.876	2.898	2.805	2.714	2.984	2.862	E7	3.22

(#) = Out of Range

504_1.M Fri Nov 13 08:43:44 2009

9.6.8

Initial Calibration Verification

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1533-ICV1533
Lab FileID: DD52821.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\1112EDB\DD52821.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\1112EDB\DD52821.D\ECD2B.CH
Acq On : 12 Nov 2009 3:29 pm Operator: britneyr
Sample : icv1533-0.10 Inst : ECD 4
Misc : op30883,gdd1533,35.1,,,2,1,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 12 15:07:42 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.100	0.102	-2.0	100	0.00	4.86- 5.06
	Amount	Calc.	%Drift				
2 S	4-Bromofluorobenzene		----------NA----------				
	Amount	Calc.	%Drift				
3	1,2,3-Trichloropropane	0.100	0.082	18.0	91	0.00	6.66- 6.86
	Amount	Calc.	%Drift				
4	1,2-Dibromo-3-chloropr	0.100	0.103	-3.0	99	0.00	8.70- 8.89
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.100	0.101	-1.0	101	0.00	4.92- 5.12
2 S	4-Bromofluorobenzene		----------NA----------				
	Amount	Calc.	%Drift				
3	1,2,3-Trichloropropane	0.100	0.084	16.0	80	0.00	6.64- 6.84
4	1,2-Dibromo-3-chloropr	0.100	0.095	5.0	100	0.00	8.53- 8.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
DD52815.D 504_1.M Fri Nov 13 08:44:36 2009

9.6.9

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1533-CC1533
Lab FileID: DD52832.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\2\DATA\1112EDB\DD52832.D\ECD1A.CH  Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\1112EDB\DD52832.D\ECD2B.CH
Acq On    : 12 Nov 2009   7:11 pm                    Operator: britneyr
Sample    : cc1533-0.50                              Inst    : ECD 4
Misc      : op30883,gdd1533,35.3,,,2,1,water         Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS2.E

Method       : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title        : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update  : Thu Nov 12 15:07:42 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.500	0.483	3.4	98	0.00	4.86- 5.06
	Amount	Calc.	%Drift				
2 S	4-Bromofluorobenzene	4.000	3.643	8.9	93	0.00	6.64- 6.84
	Amount	Calc.	%Drift				
3	1,2,3-Trichloropropane	0.500	0.511	-2.2	90	0.00	6.66- 6.86
	Amount	Calc.	%Drift				
4	1,2-Dibromo-3-chloropr	0.500	0.486	2.8	96	0.00	8.70- 8.89
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.500	0.502	-0.4	99	0.00	4.92- 5.12
2 S	4-Bromofluorobenzene	4.000	4.027	-0.7	100	0.00	6.70- 6.90
	Amount	Calc.	%Drift				
3	1,2,3-Trichloropropane	0.500	0.516	-3.2	100	0.00	6.64- 6.84
4	1,2-Dibromo-3-chloropr	0.500	0.504	-0.8	100	0.00	8.53- 8.73

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 DD52817.D  504_1.M          Fri Nov 13 08:45:35 2009
```

9.6.10

9

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30795-MB	DD52712.D	1	11/04/09	BR	11/04/09	OP30795	GDD1527

The QC reported here applies to the following samples: Method: EPA 504.1

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	114%	63-137%

Raw Data: DD52741.D

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30795-MB	DD52741.D	1	11/05/09	BR	11/04/09	OP30795	GDD1528

The QC reported here applies to the following samples: Method: EPA 504.1

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	111%	63-137%

9.1.2

9

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30883-MB	DD52823.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533

The QC reported here applies to the following samples: Method: EPA 504.1

F69228-7, F69228-8

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	63-137%

Instrument Performance Check (DFTPP)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2421-DFTPP	Injection Date:	10/09/09
Lab File ID:	W047938.D	Injection Time:	11:51
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36838	39.7		Pass
68	Less than 2.0% of mass 69	76	0.08	(0.21) [a]	Pass
69	Mass 69 relative abundance	35475	38.2		Pass
70	Less than 2.0% of mass 69	243	0.26	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	48387	52.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	92747	100.0		Pass
199	5.0 - 9.0% of mass 198	6591	7.1		Pass
275	10.0 - 30.0% of mass 198	19395	20.9		Pass
365	1.0 - 100.0% of mass 198	2032	2.2		Pass
441	Present, but less than mass 443	8862	9.6	(75.1) [b]	Pass
442	40.0 - 100.0% of mass 198	58883	63.5		Pass
443	17.0 - 23.0% of mass 442	11794	12.7	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2421-IC2421	W047940.D	10/09/09	13:13	01:22	Initial cal 1
SW2421-IC2421	W047941.D	10/09/09	13:41	01:50	Initial cal 2
SW2421-IC2421	W047942.D	10/09/09	14:09	02:18	Initial cal 3
SW2421-ICC2421	W047943.D	10/09/09	14:36	02:45	Initial cal 4
SW2421-IC2421	W047944.D	10/09/09	15:04	03:13	Initial cal 5
SW2421-IC2421	W047945.D	10/09/09	15:31	03:40	Initial cal 6
SW2421-IC2421	W047946.D	10/09/09	15:59	04:08	Initial cal 7
SW2421-ICV2421	W047947.D	10/09/09	16:26	04:35	Initial cal verification 5
OP30536-BS	W047948.D	10/09/09	16:54	05:03	Blank Spike
OP30536-MB	W047949.D	10/09/09	17:21	05:30	Method Blank
ZZZZZZ	W047950.D	10/09/09	17:49	05:58	(unrelated sample)
ZZZZZZ	W047951.D	10/09/09	18:16	06:25	(unrelated sample)
ZZZZZZ	W047952.D	10/09/09	18:43	06:52	(unrelated sample)
ZZZZZZ	W047953.D	10/09/09	19:10	07:19	(unrelated sample)
F68546-1	W047954.D	10/09/09	19:37	07:46	(used for QC only; not part of job F69228)
OP30536-MS	W047955.D	10/09/09	20:04	08:13	Matrix Spike
OP30536-MSD	W047956.D	10/09/09	20:31	08:40	Matrix Spike Duplicate
ZZZZZZ	W047957.D	10/09/09	20:58	09:07	(unrelated sample)

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2421-ICC2421
Lab FileID: W047943.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 12 11:09:30 2009
Response via : Initial Calibration

Calibration Files
L1 =W047940.D L2 =W047941.D L3 =W047942.D L4 =W047943.D
L5 =W047944.D L6 =W047945.D L7 =W047946.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.304	0.333	0.323	0.331	0.330	0.309	0.320	0.321	3.52
3)P N-nitroso-di-n-pr		0.087	0.080	0.078	0.078	0.069	0.070	0.077	8.98
4) Naphthalene	1.154	1.256	1.163	1.150	1.069	0.968	0.968	1.104	9.76
5) 2-Methylnaphthale	0.752	0.813	0.770	0.770	0.717	0.643	0.644	0.730	8.97
6) 1-Methylnaphthale	0.696	0.761	0.719	0.710	0.666	0.599	0.602	0.679	8.93
7) I Acenaphthene-d10	----------ISTD----------								
8)P Hexachlorocyclope		0.206	0.222	0.234	0.254	0.249	0.260	0.238	8.76
9)S 2-Fluorobiphenyl	1.633	1.736	1.669	1.667	1.920	1.829	1.516	1.710	7.78
10) Acenaphthylene	2.154	2.335	2.230	2.169	2.050	1.857	1.845	2.092	8.85
11)C Acenaphthene	1.358	1.439	1.366	1.331	1.276	1.152	1.185	1.301	7.92
12)P 2,4-Dinitrophenol		0.045	0.061	0.077	0.118	0.133	0.141	0.096	41.81
13)P 4-Nitrophenol		0.214	0.222	0.240	0.236	0.246	0.239	0.233	5.18
14) Fluorene	1.494	1.565	1.501	1.462	1.373	1.318	1.309	1.432	6.91
15) I Phenanthrene-d10	----------ISTD----------								
16) Phenanthrene	1.446	1.518	1.444	1.421	1.312	1.229	1.245	1.374	8.11
17) Anthracene	1.424	1.484	1.448	1.433	1.319	1.237	1.252	1.371	7.30
18)C Fluoranthene	1.442	1.538	1.487	1.462	1.336	1.257	1.284	1.401	7.73
19) I Chrysene-d12	----------ISTD----------								
20) Pyrene	2.452	2.613	2.517	2.436	2.277	2.138	2.132	2.366	7.92
21)S Terphenyl-d14	0.916	0.974	0.942	0.967	0.937	0.889	0.894	0.931	3.58
22) Benzo[a]anthracen	1.885	1.942	1.839	1.889	1.935	1.894	1.916	1.900	1.85
23) Chrysene	1.800	1.909	1.893	1.910	1.897	1.856	1.876	1.877	2.08
24) I Perylene-d12	----------ISTD----------								
25) Benzo[b]fluoranth	1.609	1.654	1.662	1.804	1.826	1.806	1.850	1.744	5.65
26) Benzo[k]fluoranth	1.667	1.872	1.870	1.842	1.872	1.932	1.959	1.859	5.05
27)C Benzo[a]pyrene	1.399	1.493	1.491	1.564	1.616	1.640	1.670	1.553	6.24
28) Indeno[1,2,3-cd]p	1.208	1.219	1.225	1.307	1.342	1.407	1.454	1.309	7.47
29) Dibenz[a,h]anthra	1.099	1.129	1.173	1.231	1.279	1.320	1.355	1.226	7.91
30) Benzo[g,h,i]peryl	1.528	1.569	1.550	1.602	1.622	1.641	1.670	1.598	3.20

(#) = Out of Range

SIM_PAHA.M Mon Oct 12 11:11:42 2009

7.7.1

7

Instrument Performance Check (DFTPP)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2442-DFTPP	Injection Date:	11/09/09
Lab File ID:	W048386.D	Injection Time:	12:00
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36334	34.2		Pass
68	Less than 2.0% of mass 69	216	0.2	(0.55) [a]	Pass
69	Mass 69 relative abundance	39067	36.8		Pass
70	Less than 2.0% of mass 69	322	0.3	(0.82) [a]	Pass
127	40.0 - 60.0% of mass 198	52779	49.7		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	106224	100.0		Pass
199	5.0 - 9.0% of mass 198	6786	6.4		Pass
275	10.0 - 30.0% of mass 198	23621	22.2		Pass
365	1.0 - 100.0% of mass 198	2361	2.2		Pass
441	Present, but less than mass 443	11290	10.6	(75.0) [b]	Pass
442	40.0 - 100.0% of mass 198	74451	70.1		Pass
443	17.0 - 23.0% of mass 442	15059	14.2	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2442-CC2421	W048387.D	11/09/09	12:17	00:17	Continuing cal 4
OP30806-BS	W048388.D	11/09/09	13:11	01:11	Blank Spike
OP30806-MB	W048389.D	11/09/09	13:38	01:38	Method Blank
ZZZZZZ	W048391.D	11/09/09	14:34	02:34	(unrelated sample)
ZZZZZZ	W048392.D	11/09/09	15:01	03:01	(unrelated sample)
ZZZZZZ	W048393.D	11/09/09	15:28	03:28	(unrelated sample)
ZZZZZZ	W048394.D	11/09/09	15:56	03:56	(unrelated sample)
F69203-6	W048395.D	11/09/09	16:23	04:23	(used for QC only; not part of job F69228)
OP30806-MS	W048396.D	11/09/09	16:50	04:50	Matrix Spike
OP30806-MSD	W048397.D	11/09/09	17:17	05:17	Matrix Spike Duplicate
ZZZZZZ	W048398.D	11/09/09	17:45	05:45	(unrelated sample)
ZZZZZZ	W048399.D	11/09/09	18:12	06:12	(unrelated sample)
ZZZZZZ	W048400.D	11/09/09	18:39	06:39	(unrelated sample)
F69228-1	W048401.D	11/09/09	19:06	07:06	TFS-902C-MW-01-1009
F69228-2	W048402.D	11/09/09	19:35	07:35	TFS-902C-MW-02-1009
F69228-3	W048403.D	11/09/09	20:02	08:02	TFS-902C-MW-03-1009
F69228-4	W048404.D	11/09/09	20:29	08:29	TFS-902C-MW-04-1009
F69228-5	W048405.D	11/09/09	20:56	08:56	TFS-MW-09-1109
F69228-6	W048406.D	11/09/09	21:23	09:23	TFS-MW-10-1109

Instrument Performance Check (DFTPP)

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2442-DFTPP	Injection Date:	11/09/09
Lab File ID:	W048386.D	Injection Time:	12:00
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F69228-7	W048407.D	11/09/09	21:50	09:50	TFS-MW-13-1109
F69228-8	W048408.D	11/09/09	22:18	10:18	TFS-MW-14-1109
ZZZZZZ	W048409.D	11/09/09	22:45	10:45	(unrelated sample)

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2442-CC2421
Lab FileID: W048387.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\110909\W048387.D Vial: 2
Acq On : 9 Nov 2009 12:17 pm Operator: rayb
Sample : cc2421-4 Inst : MSBNA01
Misc : op30747,sw2442,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Nov 09 15:09:52 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00	6.19
2	S	Nitrobenzene-d5	0.321	0.314	2.2	84	0.00	5.50
3	P	N-nitroso-di-n-propylamin	0.077	0.070	9.1	79	-0.01	5.36
4		Naphthalene	1.104	1.093	1.0	85	0.00	6.21
5		2-Methylnaphthalene	0.730	0.738	-1.1	85	0.00	7.01
6		1-Methylnaphthalene	0.679	0.679	0.0	85	0.00	7.14
7	I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00	8.48
8	P	Hexachlorocyclopentadiene	0.238	0.161	32.4#	60	0.00	7.20
9	S	2-Fluorobiphenyl	1.710	1.990	-16.4	104	0.00	7.50
10		Acenaphthylene	2.092	2.100	-0.4	85	0.00	8.26
11	C	Acenaphthene	1.301	1.331	-2.3	87	0.00	8.53
12	P	2,4-Dinitrophenol	0.096	0.056	41.7#	63	0.00	8.61
13	P	4-Nitrophenol	0.233	0.186	20.2#	68	0.00	8.76
14		Fluorene	1.432	1.433	-0.1	86	0.01	9.37
15	I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00	10.98
16		Phenanthrene	1.374	1.339	2.5	84	0.00	11.03
17		Anthracene	1.371	1.344	2.0	84	0.00	11.12
18	C	Fluoranthene	1.401	1.443	-3.0	88	0.01	13.20
19	I	Chrysene-d12	1.000	1.000	0.0	84	0.00	15.91
20		Pyrene	2.366	2.405	-1.6	83	-0.02	13.61
21	S	Terphenyl-d14	0.931	1.023	-9.9	89	-0.01	14.01
22		Benzo[a]anthracene	1.900	1.814	4.5	80	0.00	15.89
23		Chrysene	1.877	1.801	4.0	79	0.00	15.96
24	I	Perylene-d12	1.000	1.000	0.0	79	0.00	18.41
25		Benzo[b]fluoranthene	1.744	1.751	-0.4	76	0.00	17.79
26		Benzo[k]fluoranthene	1.859	1.800	3.2	77	0.00	17.84
27	C	Benzo[a]pyrene	1.553	1.523	1.9	77	-0.03	18.32
28		Indeno[1,2,3-cd]pyrene	1.309	1.153	11.9	69	-0.03	20.00
29		Dibenz[a,h]anthracene	1.226	1.010	17.6	64	-0.02	20.06
30		Benzo[g,h,i]perylene	1.598	1.296	18.9	64	-0.02	20.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W047943.D SIM_PAHA.M Mon Nov 09 15:11:00 2009

7.7.3

7

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30806-MB	W048389.D	1	11/09/09	RB	11/05/09	OP30806	SW2442

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6, F69228-7, F69228-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	88%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30793-MB	IJ60801.D	1	11/04/09	FEA	11/04/09	OP30793	GIJ2085

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	38-122%

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30793-MB	IJ60830.D	1	11/05/09	FEA	11/04/09	OP30793	GIJ2086

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	38-122%

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30807-MB	IJ60843.D	1	11/06/09	FEA	11/05/09	OP30807	GIJ2087

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69228-7, F69228-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	80%	38-122%

Method Blank Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30807-MB	IJ60869.D	1	11/09/09	FEA	11/05/09	OP30807	GIJ2088

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69228-7, F69228-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	81%	38-122%

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2085-CC2061	Injection Date:	11/04/09
Lab File ID:	IJ60797.D	Injection Time:	16:10
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30793-BS	IJ60800.D	11/04/09	17:16	5.25
OP30793-MB	IJ60801.D	11/04/09	17:38	5.25
ZZZZZZ	IJ60802.D	11/04/09	18:00	5.25
ZZZZZZ	IJ60803.D	11/04/09	18:23	5.25
ZZZZZZ	IJ60804.D	11/04/09	18:45	5.25
ZZZZZZ	IJ60805.D	11/04/09	19:07	5.25
ZZZZZZ	IJ60806.D	11/04/09	19:29	5.25
ZZZZZZ	IJ60807.D	11/04/09	19:51	5.25
ZZZZZZ	IJ60808.D	11/04/09	20:13	5.25
ZZZZZZ	IJ60809.D	11/04/09	20:35	5.25

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2085-CC2061	Injection Date:	11/04/09
Lab File ID:	IJ60810.D	Injection Time:	20:57
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
F69203-6	IJ60813.D	11/04/09	22:03	5.25
OP30793-MS	IJ60814.D	11/04/09	22:25	5.25
OP30793-MS	IJ60815.D	11/04/09	22:47	5.25
ZZZZZZ	IJ60816.D	11/04/09	23:09	5.25
ZZZZZZ	IJ60817.D	11/04/09	23:31	5.25
ZZZZZZ	IJ60818.D	11/04/09	23:53	5.25
F69228-1	IJ60819.D	11/05/09	00:15	5.25
F69228-2	IJ60820.D	11/05/09	00:37	5.25

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2085-CC2061	Injection Date:	11/05/09
Lab File ID:	IJ60821.D	Injection Time:	00:59
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
F69228-3	IJ60822.D	11/05/09	01:21	5.25
F69228-4	IJ60823.D	11/05/09	01:43	5.25
F69228-5	IJ60824.D	11/05/09	02:05	5.25
F69228-6	IJ60825.D	11/05/09	02:27	5.25
GIJ2085-ECC2061	IJ60826.D	11/05/09	02:49	5.25

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2086-CC2061	Injection Date:	11/05/09
Lab File ID:	IJ60827.D	Injection Time:	10:54
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30793-MB	IJ60830.D	11/05/09	12:26	5.25
ZZZZZZ	IJ60831.D	11/05/09	12:48	5.25
ZZZZZZ	IJ60832.D	11/05/09	13:11	5.25
GIJ2086-ECC2061	IJ60833.D	11/05/09	13:33	5.25

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

11.6.4 11

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2087-CC2061	Injection Date:	11/06/09
Lab File ID:	IJ60834.D	Injection Time:	10:16
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30819-BS	IJ60837.D	11/06/09	13:40	5.25
OP30819-MB	IJ60838.D	11/06/09	14:02	5.25
F69259-1	IJ60839.D	11/06/09	14:25	5.25
OP30819-MS	IJ60840.D	11/06/09	14:47	5.25
OP30819-MSD	IJ60841.D	11/06/09	15:09	5.25
OP30807-BS	IJ60842.D	11/06/09	15:31	5.25
OP30807-MB	IJ60843.D	11/06/09	15:53	5.25
ZZZZZZ	IJ60844.D	11/06/09	16:16	5.25
ZZZZZZ	IJ60845.D	11/06/09	16:38	5.25
ZZZZZZ	IJ60846.D	11/06/09	17:00	5.25

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2087-CC2061	Injection Date:	11/06/09
Lab File ID:	IJ60847.D	Injection Time:	17:22
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.25

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
ZZZZZZ	IJ60848.D	11/06/09	17:44	5.25
F69228-8	IJ60850.D	11/06/09	18:29	5.25
OP30807-MS	IJ60851.D	11/06/09	18:51	5.25
OP30807-MSD	IJ60852.D	11/06/09	19:13	5.25
ZZZZZZ	IJ60853.D	11/06/09	19:35	5.25
ZZZZZZ	IJ60854.D	11/06/09	19:57	5.25
ZZZZZZ	IJ60855.D	11/06/09	20:19	5.25
ZZZZZZ	IJ60856.D	11/06/09	20:40	5.25
ZZZZZZ	IJ60857.D	11/06/09	21:03	5.25

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICC2061
Lab FileID: IJ59948.D

Response Factor Report FID 1

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Initial Calibration

Calibration Files
255 =IJ59945.D 340 =IJ59946.D 680 =IJ59947.D 1360=IJ59948.D
2040=IJ59949.D 2720=IJ59950.D 3400=IJ59951.D

Compound	255	340	680	1360	2040	2720	3400	Avg	%RSD
1)S O-TERPHENYL	3.043	2.902	2.894	2.835	2.980	2.710	3.087	2.921 E4	4.40
2)H TPH (C8-C40)	2.949	2.866	2.768	2.671	2.804	2.546	2.887	2.784 E4	4.96

(#) = Out of Range

FL_PRO_R.M Thu Oct 01 15:34:00 2009

11.7.1 11

Initial Calibration Verification

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICV2061
Lab FileID: IJ59952.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0930PRO\IJ59952.D Vial: 9
Acq On : 30 Sep 2009 2:37 pm Operator: shannonl
Sample : icv2061-1360 Inst : FID 1
Misc : op30397,gij2061,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL		----------NA----------				
2 H	TPH (C8-C40)	1360.000	1268.691	6.7	97	0.00	1.98-10.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Oct 01 15:34:09 2009

11.7.2 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2085-CC2061
Lab FileID: IJ60797.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1104APRO\IJ60797.D Vial: 1
Acq On : 4 Nov 2009 4:10 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30793,gij2085,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	37.554	6.1	97	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1222.073	10.1	94	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 05 14:10:52 2009

11.7.3
11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2085-CC2061
Lab FileID: IJ60798.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1104APRO\IJ60798.D Vial: 2
Acq On : 4 Nov 2009 4:32 pm Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op30793,gij2085,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	10.000	10.022	-0.2	101	0.00	5.20- 5.31
2	H	TPH (C8-C40)	340.000	320.703	5.7	92	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Thu Nov 05 14:11:34 2009

11.7.4 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2085-CC2061
Lab FileID: IJ60810.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1104APRO\IJ60810.D Vial: 14
Acq On : 4 Nov 2009 8:57 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30793,gij2085,1030,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	40.670	-1.7	105	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1300.726	4.4	100	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 05 14:10:52 2009

11.7.5 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2085-CC2061
Lab FileID: IJ60821.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1104APRO\IJ60821.D Vial: 25
Acq On : 5 Nov 2009 12:59 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30793,gij2085,1010,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	39.445	1.4	102	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1274.047	6.3	98	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 05 14:10:53 2009

11.7.6

11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2085-ECC2061
Lab FileID: IJ60826.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1104APRO\IJ60826.D Vial: 25
Acq On : 5 Nov 2009 2:49 am Operator: enoca
Sample : ecc2061-1360 Inst : FID 1
Misc : op30793,gij2085,1030,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.856	2.9	100	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1253.152	7.9	96	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 05 14:10:53 2009

11.7.7 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2086-CC2061
Lab FileID: IJ60827.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1105PRO\IJ60827.D Vial: 1
Acq On : 5 Nov 2009 10:54 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30793,gij2086,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	36.411	9.0	94	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1167.882	14.1	90	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Fri Nov 06 15:03:50 2009

11.7.8 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2086-CC2061
Lab FileID: IJ60828.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1105PRO\IJ60828.D Vial: 2
Acq On : 5 Nov 2009 11:16 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op30793,gij2086,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	9.987	0.1	101	0.00	5.20- 5.31
2 H	TPH (C8-C40)	340.000	309.601	8.9	88	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Fri Nov 06 15:04:12 2009

11.7.9 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2086-ECC2061
Lab FileID: IJ60833.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1105PRO\IJ60833.D Vial: 7
Acq On : 5 Nov 2009 1:33 pm Operator: enoca
Sample : ecc2061-1360 Inst : FID 1
Misc : op30793,gij2086,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	40.000	36.931	7.7	95	0.00	5.20- 5.31
2	H	TPH (C8-C40)	1360.000	1163.284	14.5	89	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Fri Nov 06 15:03:50 2009

11.7.10
11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2087-CC2061
Lab FileID: IJ60834.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1106PRO\IJ60834.D Vial: 1
Acq On : 6 Nov 2009 10:16 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30819,gij2087,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	40.395	-1.0	104	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1176.616	13.5	90	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Mon Nov 09 11:01:31 2009

11.7.11

11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2087-CC2061
Lab FileID: IJ60835.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1106PRO\IJ60835.D Vial: 2
Acq On : 6 Nov 2009 10:38 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op30819,gij2087,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	10.181	-1.8	102	0.00	5.20- 5.31
2 H	TPH (C8-C40)	340.000	283.194	16.7	81	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Mon Nov 09 11:02:12 2009

11.7.12 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2087-CC2061
Lab FileID: IJ60847.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1106PRO\IJ60847.D Vial: 14
Acq On : 6 Nov 2009 5:22 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30807,gij2087,1050,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	42.101	-5.3	108	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1297.897	4.6	99	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Mon Nov 09 11:01:32 2009

11.7.13 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2087-CC2061
Lab FileID: IJ60858.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1106PRO\IJ60858.D Vial: 25
Acq On : 6 Nov 2009 9:25 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30807,gij2087,1030,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	41.266	-3.2	106	0.00	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1298.694	4.5	100	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Mon Nov 09 11:01:32 2009

11.7.14 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2088-CC2061
Lab FileID: IJ60866.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1109PRO\IJ60866.D Vial: 1
Acq On : 9 Nov 2009 2:36 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30818,gij2088,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	40.000	39.590	1.0	102	0.00	5.20- 5.31
2	H	TPH (C8-C40)	1360.000	1361.579	-0.1	104	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Nov 10 13:46:04 2009

11.7.15 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2088-CC2061
Lab FileID: IJ60867.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1109PRO\IJ60867.D Vial: 2
Acq On : 9 Nov 2009 2:58 pm Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op30818,gij2088,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	10.013	-0.1	101	0.00	5.20- 5.31
2 H	TPH (C8-C40)	340.000	353.392	-3.9	101	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Tue Nov 10 13:46:37 2009

11.7.16 11

Continuing Calibration Summary

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2088-ECC2061
Lab FileID: IJ60879.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1109PRO\IJ60879.D Vial: 14
Acq On : 9 Nov 2009 7:25 pm Operator: enoca
Sample : ecc2061-1360 Inst : FID 1
Misc : op30818,gij2088,29.7,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Oct 20 12:46:47 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.909	2.7	100	-0.01	5.20- 5.31
2 H	TPH (C8-C40)	1360.000	1308.039	3.8	100	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Nov 10 13:46:04 2009

11.7.17 11

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7646 Units: ug/l

Time:		09:50			10:09			11:02	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	40000	39800	99.5	40000	39800	99.5	40000	39500	98.8
Lead	2000	2060	103.0	2000	2050	102.5	2000	2050	102.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium	anr								
Selenium									
Silver									
Sodium	anr								
Thallium									
Tin									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7646 Units: ug/l

Time:		11:46			12:28			12:46	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	40000	40200	100.5	40000	40200	100.5	40000	39700	99.3
Lead	2000	2080	104.0	2000	2080	104.0	2000	2050	102.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium	anr								
Selenium									
Silver									
Sodium	anr								
Thallium									
Tin									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
13

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7646 Units: ug/l

Time:		13:31			14:13			15:12	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	40000	39800	99.5	40000	40000	100.0	40000	40200	100.5
Lead	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium	anr								
Selenium									
Silver									
Sodium	anr								
Thallium									
Tin									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7646 Units: ug/l

Time:		15:54			16:36			17:20	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	40000	39900	99.8	40000	40200	100.5	40000	39700	99.3
Lead	2000	2070	103.5	2000	2080	104.0	2000	2060	103.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium	anr								
Selenium									
Silver									
Sodium	anr								
Thallium									
Tin									
Vanadium									
Zinc									

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
13

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7646 Units: ug/l

Time:		17:56	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum			
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium			
Cadmium			
Calcium			
Chromium	anr		
Cobalt			
Copper			
Iron	40000	40100	100.3
Lead	2000	2080	104.0
Magnesium			
Manganese	anr		
Molybdenum			
Nickel			
Potassium	anr		
Selenium			
Silver			
Sodium	anr		
Thallium			
Tin			
Vanadium			
Zinc			

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3 13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: 1R110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7646 Units: ug/l

Time:			09:56		10:14		11:06		11:50	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5								
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1								
Cadmium	5.0	1								
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1								
Iron	300	23	-2.4	<300	2.9	<300	4.7	<300	7.8	<300
Lead	5.0	2	0.99	<10	2.4	<10	1.9	<10	1.8	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3								
Potassium	10000	100	anr							
Selenium	10	3.1								
Silver	10	1.2								
Sodium	10000	500	anr							
Thallium	10	3.4								
Tin	50	2.8								
Vanadium	50	.66								
Zinc	20	3.8								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7646 Units: ug/l

Time: / Sample ID: / Metal	RL	IDL	12:32 CCB4 raw	final	12:50 CCB5 raw	final	13:36 CCB6 raw	final	14:18 CCB7 raw	final
Aluminum	200	11								
Antimony	6.0	4.5								
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1								
Cadmium	5.0	1								
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1								
Iron	300	23	7.4	<300	7.6	<300	-4.4	<300	0.75	<300
Lead	5.0	2	1.2	<10	1.6	<10	1.2	<10	2.0	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3								
Potassium	10000	100	anr							
Selenium	10	3.1								
Silver	10	1.2								
Sodium	10000	500	anr							
Thallium	10	3.4								
Tin	50	2.8								
Vanadium	50	.66								
Zinc	20	3.8								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2
13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7646 Units: ug/l

Time:			15:16		15:58		16:40		17:24	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5								
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1								
Cadmium	5.0	1								
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1								
Iron	300	23	-5.0	<300	6.0	<300	0.26	<300	7.9	<300
Lead	5.0	2	1.4	<10	1.4	<10	1.8	<10	2.4	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3								
Potassium	10000	100	anr							
Selenium	10	3.1								
Silver	10	1.2								
Sodium	10000	500	anr							
Thallium	10	3.4								
Tin	50	2.8								
Vanadium	50	.66								
Zinc	20	3.8								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7646 Units: ug/l

Time:			18:00	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	11		
Antimony	6.0	4.5		
Arsenic	10	3.6	anr	
Barium	200	5	anr	
Beryllium	4.0	1		
Cadmium	5.0	1		
Calcium	1000	100		
Chromium	10	1.6	anr	
Cobalt	50	.83		
Copper	25	2.1		
Iron	300	23	10.5	<300
Lead	5.0	2	1.5	<10
Magnesium	5000	100		
Manganese	15	.5	anr	
Molybdenum	50	2.8		
Nickel	40	2.3		
Potassium	10000	100	anr	
Selenium	10	3.1		
Silver	10	1.2		
Sodium	10000	500	anr	
Thallium	10	3.4		
Tin	50	2.8		
Vanadium	50	.66		
Zinc	20	3.8		

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2 43

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

QC Batch ID: MP17291
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/04/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	11	11		
Antimony	6.0	4.5	4.5		
Arsenic	10	3.6	5.4		
Barium	200	5	5		
Beryllium	4.0	1	1		
Cadmium	5.0	1	1		
Calcium	1000	100	100		
Chromium	10	1.6	2		
Cobalt	50	.83	1		
Copper	25	2.1	5		
Iron	300	23	23	9.3	<300
Lead	10	2	2	2.6	<10
Magnesium	5000	100	100		
Manganese	15	.5	1		
Molybdenum	50	2.8	5		
Nickel	40	2.3	2.3		
Potassium	10000	100	100		
Selenium	10	3.1	3.4		
Silver	10	1.2	1.4		
Sodium	10000	500	500		
Thallium	10	3.4	3.6		
Tin	50	2.8	2.8		
Vanadium	50	.66	.9		
Zinc	20	3.8	7.4		

Associated samples MP17291: F69228-1, F69228-2, F69228-3, F69228-4, F69228-5, F69228-6, F69228-7, F69228-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

13.2.1

Instrument Detection Limits

Job Number: F69228
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Instrument ID: TJATRACE1 Effective Date: 06/11/08

Analyte	IDL ug/l
Aluminum	11
Antimony	4.5
Arsenic	3.6
Barium	5
Beryllium	1
Cadmium	1
Calcium	100
Chromium	1.6
Cobalt	.83
Copper	2.1
Iron	23
Lead	2
Magnesium	100
Manganese	.5
Molybdenum	2.8
Nickel	2.3
Potassium	100
Selenium	3.1
Silver	1.2
Sodium	500
Thallium	3.4
Tin	2.8
Vanadium	.66
Zinc	3.8

The above applies to the following instrument runs:
MA7646

13.3

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
Analyst: DM Run ID: MA7646
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:48	MA7646-HSTD1	1		
09:50	MA7646-ICV1	1		
09:56	MA7646-ICB1	1		
09:59	MA7646-CRIA1	1		
10:02	MA7646-CRI1	1		
10:06	MA7646-ICSA1	1		
10:07	MA7646-ICSAB1	1		
10:09	MA7646-CCV1	1		
10:14	MA7646-CCB1	1		
11:02	MA7646-CCV2	1		
11:06	MA7646-CCB2	1		
11:10	MP17288-MB1	1		
11:13	MP17288-B1	1		
11:17	F69214-1	1		(sample used for QC only; not part of login F69228)
11:21	MP17288-D1	1		
11:24	MP17288-SD1	5		
11:28	MP17288-S1	1		
11:31	MP17288-S2	1		
11:35	MP17288-PS1	1		
11:39	ZZZZZZ	1		
11:46	MA7646-CCV3	1		
11:50	MA7646-CCB3	1		
11:54	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:28	MA7646-CCV4	1		
12:32	MA7646-CCB4	1		
12:46	MA7646-CCV5	1		
12:50	MA7646-CCB5	1		
12:55	MP17291-MB1	1		
12:59	MP17291-B1	1		

13.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
Analyst: DM Run ID: MA7646
Parameters: Fe,Pb

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:03	F69228-1	1		
	13:06	MP17291-D1	1		
	13:10	MP17291-SD1	5		
	13:13	MP17291-S1	1		
	13:17	MP17291-S2	1		
	13:20	MP17291-PS1	1		
	13:24	F69228-2	1		
	13:28	F69228-3	1		
	13:31	MA7646-CCV6	1		
	13:36	MA7646-CCB6	1		
	13:39	F69228-4	1		
	13:42	F69228-5	1		
	13:46	F69228-6	1		
	13:49	F69228-7	1		
	13:53	F69228-8	1		
---------->		Last reportable sample/prep for job F69228			
	13:56	ZZZZZZ	1		
	13:59	ZZZZZZ	1		
	14:03	ZZZZZZ	1		
	14:06	ZZZZZZ	1		
	14:10	ZZZZZZ	1		
	14:13	MA7646-CCV7	1		
	14:18	MA7646-CCB7	1		
	14:39	MP17293-MB1	1		
	14:43	MP17293-B1	1		
	14:47	F69313-1	1		(sample used for QC only; not part of login F69228)
	14:51	MP17293-D1	1		
	14:54	MP17293-SD1	5		
	14:57	MP17293-S1	1		
	15:01	MP17293-PS1	1		
	15:05	ZZZZZZ	1		
	15:12	MA7646-CCV8	1		
	15:16	MA7646-CCB8	1		
	15:23	F69159-1	4		(sample used for QC only; not part of login F69228)

13.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
Analyst: DM Run ID: MA7646
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:27	MP17280-D1	4		
15:30	MP17280-S1	4		
15:33	MP17280-S2	4		
15:37	MP17280-SD1	20		
15:40	ZZZZZZ	4		
15:44	ZZZZZZ	4		
15:47	ZZZZZZ	4		
15:50	ZZZZZZ	4		
15:54	MA7646-CCV9	1		
15:58	MA7646-CCB9	1		
16:02	ZZZZZZ	4		
16:05	ZZZZZZ	4		
16:09	ZZZZZZ	4		
16:12	ZZZZZZ	4		
16:15	ZZZZZZ	4		
16:19	ZZZZZZ	4		
16:22	ZZZZZZ	4		
16:26	ZZZZZZ	4		
16:29	ZZZZZZ	2		
16:32	ZZZZZZ	2		
16:36	MA7646-CCV10	1		
16:40	MA7646-CCB10	1		
16:44	ZZZZZZ	20		
16:47	ZZZZZZ	2		
16:50	ZZZZZZ	20		
16:54	MP17292-MB1	1		
16:57	MP17292-B1	1		
17:02	F69129-1A	1		(sample used for QC only; not part of login F69228)
17:05	MP17292-D1	1		
17:08	MP17292-SD1	5		
17:12	MP17292-S1	1		
17:16	ZZZZZZ	1		
17:20	MA7646-CCV11	1		

13.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69228
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR110409.ASC Date Analyzed: 11/04/09 Methods: SW846 6010B
Analyst: DM Run ID: MA7646
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:24	MA7646-CCB11	1		
17:28	F69129-3A	1		(sample used for QC only; not part of login F69228)
17:31	MP17292-D2	1		
17:34	MP17292-MB2	1		
17:38	MP17292-B2	1		
17:42	MA7646-CRIA2	1		
17:46	MA7646-CRI2	1		
17:49	MA7646-ICSA2	1		
17:52	MA7646-ICSAB2	1		
17:56	MA7646-CCV12	1		
18:00	MA7646-CCB12	1		

----------> Last reportable CCB for job F69228
Refer to raw data for calibration curve and standards.

13.1
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Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**C. BRYAN**	**DATE:**	**DECEMBER 15, 2009**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC / INORGANIC DATA VALIDATION – VOCs plus 1,2-DIBROMOETHANE, PAHs, TOTAL PETROLEUM HYDROCARBONS, METALS**
CTO 0105 NAS KEY WEST
SAMPLE DELIVERY GROUP (SDG) – F69276

SAMPLES: 5/Aqueous

KWTFS-SW100-1109
KWTFS-SW101-1109
KWTFS-SW102-1109
KWTFS-SW103-1109
KW-TSF-TB-02-1109

Overview

The sample set for NAS Key West, CTO 0105, SDG F69228, consists of four (4) aqueous environmental samples and one (1) trip blank (KW-TSF-TB-02-1109). No field duplicate pairs were included within this data package.

All samples with the exception of KW-TSF-TB-02-1109 were analyzed for volatile organic compounds (VOCs) plus 1,2-dibromoethane, Polycyclic Aromatic Hydrocarbons (PAHs), total petroleum hydrocarbons (TPHs) and select metals including iron and lead. Sample KW-TSF-TB-02-1109 was analyzed for VOCs only. The samples were collected by Tetra Tech NUS on November 5, 2009 and analyzed by Accutest Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. VOC analyses were conducted using SW-846 method 8260B. The analyses of 1,2-dibromoethane was conducted using EPA method 504.1 PAH analyses were conducted using SW-846 method 8270C by SIM. TPH analyses were conducted using Florida PRO method. Metals analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
• Initial and Continuing Calibrations
• Laboratory Method and Field Quality Control Blank Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

VOCs

Positive results reported below the reporting limit (RL) but above the method detection limit (MDL) were qualified as estimated, "J".

The initial calibration relative standard deviation (%RSD) on 11/11/09 instrument GCMSJ was > 30% but < 90% for bromomethane, methylene chloride and acrolein affecting all samples. No validation actions were warranted as all sample results were nondetects.

PAHs

Positive results reported below the RL but above the MDL were qualified as estimated, "J".

Total Petroleum Hydrocarbons

Positive results reported below the RL but above the MDL were qualified as estimated, "J".

Metals

The following contaminant was detected in the laboratory preparation blank at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Lead	2.9 ug/L	14.5 ug/L

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level for lead were qualified "U" as a result of laboratory blank contamination.

Notes

None.

Executive Summary

Laboratory Performance: Lead was present in the preparation blank.

Other Factors Affecting Data Quality: Positive results reported below the RL but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to the "EPA Functional Guidelines for Organic Data Validation", October 1999, the "National Functional Guidelines for Inorganic Review", October 2004 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", January 2006.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01294	NSAMPLE	KWTFS-SW100-1109	KWTFS-SW101-1109	KWTFS-SW102-1109	KWTFS-SW103-1109
SDG: F69276	LAB_ID	F69276-2	F69276-3	F69276-4	F69276-5
FRACTION: OV	SAMP_DATE	11/5/2009	11/5/2009	11/5/2009	11/5/2009
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM
	UNITS	UG/L	UG/L	UG/L	UG/L
	PCT_SOLIDS				
	DUP_OF				

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.33	U		0.33	U		0.33	U		0.33	U	
1,1,2,2-TETRACHLOROETHANE	0.21	U		0.21	U		0.21	U		0.21	U	
1,1,2-TRICHLOROETHANE	0.26	U		0.26	U		0.26	U		0.26	U	
1,1-DICHLOROETHANE	0.24	U		0.24	U		0.24	U		0.24	U	
1,1-DICHLOROETHENE	0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DIBROMOETHANE	0.0099	U		0.0097	U		0.0098	U		0.0099	U	
1,2-DICHLOROBENZENE	0.2	U		0.2	U		0.2	U		0.2	U	
1,2-DICHLOROETHANE	0.34	U		0.34	U		0.34	U		0.34	U	
1,2-DICHLOROPROPANE	0.21	U		0.21	U		0.21	U		0.21	U	
1,3-DICHLOROBENZENE	0.23	U		0.23	U		0.23	U		0.23	U	
1,4-DICHLOROBENZENE	0.22	U		0.22	U		0.22	U		0.22	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
ACROLEIN	5	U		5	U		5	U		5	U	
ACRYLONITRILE	2	U		2	U		2	U		2	U	
BENZENE	0.4	U		0.4	U		0.4	U		0.4	U	
BROMODICHLOROMETHANE	0.2	U		0.2	U		0.2	U		0.2	U	
BROMOFORM	0.36	J	P	0.33	U		0.33	U		0.33	U	
BROMOMETHANE	0.78	U		0.78	U		0.78	U		0.78	U	
CARBON TETRACHLORIDE	0.22	U		0.22	U		0.22	U		0.22	U	
CHLOROBENZENE	0.22	U		0.22	U		0.22	U		0.22	U	
CHLORODIBROMOMETHANE	0.2	U		0.2	U		0.2	U		0.2	U	
CHLOROETHANE	0.48	U		0.48	U		0.48	U		0.48	U	
CHLOROFORM	0.28	U		0.28	U		0.28	U		0.28	U	
CHLOROMETHANE	0.61	U		0.61	U		0.61	U		0.61	U	
CIS-1,2-DICHLOROETHENE	0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,3-DICHLOROPROPENE	0.21	U		0.21	U		0.21	U		0.21	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	0.43	U		0.43	U		0.43	U		0.43	U	
METHYL TERT-BUTYL ETHER	0.26	U		0.26	U		0.26	U		0.26	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	0.22	U		0.22	U		0.22	U		0.22	U	
TOLUENE	0.35	U		0.35	U		0.35	U		0.35	U	
TOTAL XYLENES	1.2	U		1.2	U		1.2	U		1.2	U	
TRANS-1,2-DICHLOROETHENE	0.45	U		0.45	U		0.45	U		0.45	U	
TRANS-1,3-DICHLOROPROPENE	0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SW100-1109			KWTFS-SW101-1109			KWTFS-SW102-1109			KWTFS-SW103-1109		
SDG: F69276	LAB_ID	F69276-2			F69276-3			F69276-4			F69276-5		
FRACTION: OV	SAMP_DATE	11/5/2009			11/5/2009			11/5/2009			11/5/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROETHENE		0.32	U		0.32	U		0.32	U		0.32	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		0.3	U		0.3	U		0.3	U		0.3	U	

PROJ_NO: 01294	NSAMPLE	KW-TFS-TB-02-1109
SDG: F69276	LAB_ID	F69276-1
FRACTION: OV	SAMP_DATE	11/5/2009
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.33	U	
1,1,2,2-TETRACHLOROETHANE	0.21	U	
1,1,2-TRICHLOROETHANE	0.26	U	
1,1-DICHLOROETHANE	0.24	U	
1,1-DICHLOROETHENE	0.54	U	
1,2-DIBROMOETHANE			
1,2-DICHLOROBENZENE	0.2	U	
1,2-DICHLOROETHANE	0.34	U	
1,2-DICHLOROPROPANE	0.21	U	
1,3-DICHLOROBENZENE	0.23	U	
1,4-DICHLOROBENZENE	0.22	U	
2-CHLOROETHYL VINYL ETHER	1	U	
ACROLEIN	5	U	
ACRYLONITRILE	2	U	
BENZENE	0.4	U	
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.33	U	
BROMOMETHANE	0.78	U	
CARBON TETRACHLORIDE	0.22	U	
CHLOROBENZENE	0.22	U	
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.48	U	
CHLOROFORM	0.28	U	
CHLOROMETHANE	0.61	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.21	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYLBENZENE	0.43	U	
METHYL TERT-BUTYL ETHER	0.26	U	
METHYLENE CHLORIDE	1	U	
TETRACHLOROETHENE	0.22	U	
TOLUENE	0.35	U	
TOTAL XYLENES	1.2	U	
TRANS-1,2-DICHLOROETHENE	0.45	U	
TRANS-1,3-DICHLOROPROPENE	0.21	U	

PROJ_NO: 01294	NSAMPLE	KW-TFS-TB-02-1109		
SDG: F69276	LAB_ID	F69276-1		
FRACTION: OV	SAMP_DATE	11/5/2009		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TRICHLOROETHENE		0.32	U	
TRICHLOROFLUOROMETHANE		0.5	U	
VINYL CHLORIDE		0.3	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SW100-1109			KWTFS-SW101-1109			KWTFS-SW102-1109			KWTFS-SW103-1109		
SDG: F69276	LAB_ID	F69276-2			F69276-3			F69276-4			F69276-5		
FRACTION: PAH	SAMP_DATE	11/5/2009			11/5/2009			11/5/2009			11/5/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
2-METHYLNAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
ACENAPHTHENE		0.48	U		0.48	U		0.48	U		0.48	U	
ACENAPHTHYLENE		0.48	U		0.48	U		0.48	U		0.48	U	
ANTHRACENE		0.48	U		0.48	U		0.48	U		0.48	U	
BENZO(A)ANTHRACENE		0.048	U		0.22			0.056	J	P	0.048	U	
BENZO(A)PYRENE		0.048	U		0.37			0.11	J	P	0.048	U	
BENZO(B)FLUORANTHENE		0.048	U		0.65			0.25			0.048	U	
BENZO(G,H,I)PERYLENE		0.048	U		0.29			0.12	J	P	0.048	U	
BENZO(K)FLUORANTHENE		0.048	U		0.19			0.068	J	P	0.048	U	
CHRYSENE		0.096	U		0.34			0.13	J	P	0.096	U	
DIBENZO(A,H)ANTHRACENE		0.048	U		0.066	J	P	0.048	U		0.048	U	
FLUORANTHENE		0.24	U		0.46	J	P	0.24	U		0.24	U	
FLUORENE		0.48	U		0.48	U		0.48	U		0.48	U	
INDENO(1,2,3-CD)PYRENE		0.048	U		0.34			0.13	J	P	0.048	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
PHENANTHRENE		0.24	U		0.24	U		0.24	U		0.24	U	
PYRENE		0.24	U		0.38	J	P	0.24	U		0.24	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SW100-1109			KWTFS-SW101-1109			KWTFS-SW102-1109			KWTFS-SW103-1109		
SDG: F69276	LAB_ID	F69276-2			F69276-3			F69276-4			F69276-5		
FRACTION: PET	SAMP_DATE	11/5/2009			11/5/2009			11/5/2009			11/5/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		0.16	U		0.199	J	P	0.193	J	P	0.16	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SW100-1109			KWTFS-SW101-1109			KWTFS-SW102-1109			KWTFS-SW103-1109		
SDG: F69276	LAB_ID	F69276-2			F69276-3			F69276-4			F69276-5		
FRACTION: M	SAMP_DATE	11/5/2009			11/5/2009			11/5/2009			11/5/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
IRON		23	U		221			23	U		23	U	
LEAD		3.5	U	A	5.2	U	A	3.6	U	A	2	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	KW-TFS-TB-02-1109		
Lab Sample ID:	F69276-1	Date Sampled:	11/05/09
Matrix:	AQ - Trip Blank Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051469.D	1	11/18/09	KW	n/a	n/a	VJ3016
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KW-TFS-TB-02-1109		
Lab Sample ID:	F69276-1	Date Sampled:	11/05/09
Matrix:	AQ - Trip Blank Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW100-1109		
Lab Sample ID:	F69276-2	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051470.D	1	11/18/09	KW	n/a	n/a	VJ3016
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.36	1.0	0.33	ug/l	I
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SW100-1109		
Lab Sample ID:	F69276-2	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW100-1109		
Lab Sample ID:	F69276-2	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52828.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533
Run #2							

	Initial Volume	Final Volume
Run #1	35.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW101-1109		
Lab Sample ID:	F69276-3	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051471.D	1	11/18/09	KW	n/a	n/a	VJ3016
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SW101-1109		
Lab Sample ID:	F69276-3	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW101-1109		
Lab Sample ID:	F69276-3	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52829.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0097 U	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW102-1109		
Lab Sample ID:	F69276-4	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051472.D	1	11/18/09	KW	n/a	n/a	VJ3016
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SW102-1109		
Lab Sample ID:	F69276-4	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW102-1109		
Lab Sample ID:	F69276-4	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52830.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0098 U	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW103-1109		
Lab Sample ID:	F69276-5	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J051473.D	1	11/18/09	KW	n/a	n/a	VJ3016
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SW103-1109		
Lab Sample ID:	F69276-5	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Sample was treated with an anti-foaming agent.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW103-1109		
Lab Sample ID:	F69276-5	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD52831.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.0099 U	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		63-137%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW100-1109		
Lab Sample ID:	F69276-2	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048422.D	1	11/10/09	RB	11/09/09	OP30839	SW2443
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW101-1109		
Lab Sample ID:	F69276-3	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048423.D	1	11/10/09	RB	11/09/09	OP30839	SW2443
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.22	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.37	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.65	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.29	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.19	0.19	0.048	ug/l	
218-01-9	Chrysene	0.34	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.066	0.19	0.048	ug/l	I
206-44-0	Fluoranthene	0.46	0.96	0.24	ug/l	I
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.34	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.38	0.96	0.24	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	89%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW102-1109		
Lab Sample ID:	F69276-4	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048424.D	1	11/10/09	RB	11/09/09	OP30839	SW2443
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.056	0.19	0.048	ug/l	I
50-32-8	Benzo(a)pyrene	0.11	0.19	0.048	ug/l	I
205-99-2	Benzo(b)fluoranthene	0.25	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.12	0.19	0.048	ug/l	I
207-08-9	Benzo(k)fluoranthene	0.068	0.19	0.048	ug/l	I
218-01-9	Chrysene	0.13	0.19	0.096	ug/l	I
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.13	0.19	0.048	ug/l	I
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	98%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW103-1109		
Lab Sample ID:	F69276-5	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048433.D	1	11/10/09	RB	11/09/09	OP30839	SW2443
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	100%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: IJ60960.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW100-1109		
Lab Sample ID:	F69276-2	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60960.D	1	11/11/09	FEA	11/09/09	OP30832	GIJ2090
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW101-1109		
Lab Sample ID:	F69276-3	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60961.D	1	11/11/09	FEA	11/09/09	OP30832	GIJ2090
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.199	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW102-1109		
Lab Sample ID:	F69276-4	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60962.D	1	11/11/09	FEA	11/09/09	OP30832	GIJ2090
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.193	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: IJ60963.D

Accutest Laboratories

Report of Analysis

3.5

Client Sample ID:	KWTFS-SW103-1109		
Lab Sample ID:	F69276-5	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ60963.D	1	11/11/09	FEA	11/09/09	OP30832	GIJ2090
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW100-1109		
Lab Sample ID:	F69276-2	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]
Lead	3.5 I	5.0	2.0	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7658
(2) Prep QC Batch: MP17312

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SW101-1109		
Lab Sample ID:	F69276-3	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	221 I	300	23	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]
Lead	5.2	5.0	2.0	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7658
(2) Prep QC Batch: MP17312

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	KWTFS-SW102-1109		
Lab Sample ID:	F69276-4	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]
Lead	3.6 I	5.0	2.0	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7658
(2) Prep QC Batch: MP17312

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

3.5

Client Sample ID:	KWTFS-SW103-1109		
Lab Sample ID:	F69276-5	Date Sampled:	11/05/09
Matrix:	AQ - Ground Water	Date Received:	11/06/09
		Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	23 U	300	23	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]
Lead	2.0 U	5.0	2.0	ug/l	1	11/10/09	11/10/09	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA7658
(2) Prep QC Batch: MP17312

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

APPENDIX C
SUPPORT DOCUMENTATION

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F69276

Site: NAS Key West, Key West, FL **Report Date:** 11/30/2009 4:40:43

4 Samples and 1 Trip Blank were collected on 11/05/2009 and were received at Accutest SE on 11/06/2009 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F69276. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VJ3016

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69347-6MS, F69347-6MSD were used as the QC samples indicated.

Matrix Spike Recovery for 2-Chloroethyl vinyl ether is outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recoverys for 1,1-Dichloroethylene, 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

F69276-5: Sample was treated with an anti-foaming agent.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP30839

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69266-1MS, F69266-1MSD were used as the QC samples indicated.

Matrix Spike Recoverys for 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Duplicate Recovery for Benzo(k)fluoranthene is outside control limits. Probable cause: due to matrix interference.

Volatiles by GC by Method EPA 504.1

Matrix: AQ **Batch ID:** OP30883

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69228-8MS, F69228-8MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Extractables by GC by Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP30832

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69292-3MS, F69292-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Metals by Method SW846 6010B

Matrix: AQ **Batch ID:** MP17312

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69220-1DUP, F69220-1MS, F69220-1MSD, F69220-1SDL were used as the QC samples for metals.

RPD for Serial Dilution for Iron is outside control limits for sample MP17312-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: November 30, 2009

Ellen Pampel, Inorganic QA (signature on file)

Monday, November 30, 2009

F69276

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000109-2

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01294	**KEY WEST NAS**	**Chuck Bryan**	**Federal Express**	**Accutest Labs, SE** **4405 Vineland Road** **Orlando, FL 32811**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
0105	**Standard**	**Gary Braganza**		**Heather Wandrey** **407-425-6700 x120**

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
1	11/05/2009	KW-TFS-TB-02-1109	15:26	SW-846 5030B/8260	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/HCL	2	Glass - Clear	40ml vials	Trip Blank
	11/05/2009	KWTFS-SW100-1109	10:32	SW-846 5030B/8260		SW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW100-1109	10:32	SW-846 8270C SIM		SW	PAHs	4°C	2	Glass - Amber	1L	
2	11/05/2009	KWTFS-SW100-1109	10:32	FL-PRO		SW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	11/05/2009	KWTFS-SW100-1109	10:32	EPA 239.2		SW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	11/05/2009	KWTFS-SW100-1109	10:32	EPA 504.1		SW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW101-1109	11:06	SW-846 5030B/8260		SW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW101-1109	11:06	SW-846 8270C SIM		SW	PAHs	4°C	2	Glass - Amber	1L	
3	11/05/2009	KWTFS-SW101-1109	11:06	FL-PRO		SW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	11/05/2009	KWTFS-SW101-1109	11:06	EPA 239.2		SW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	11/05/2009	KWTFS-SW101-1109	11:06	EPA 504.1		SW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW102-1109	11:44	SW-846 5030B/8260		SW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW102-1109	11:44	SW-846 8270C SIM		SW	PAHs	4°C	2	Glass - Amber	1L	
4	11/05/2009	KWTFS-SW102-1109	11:44	FL-PRO		SW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	11/05/2009	KWTFS-SW102-1109	11:44	EPA 239.2		SW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	11/05/2009	KWTFS-SW102-1109	11:44	EPA 504.1		SW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW103-1109	12:21	SW-846 5030B/8260		SW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/05/2009	KWTFS-SW103-1109	12:21	SW-846 8270C SIM		SW	PAHs	4°C	2	Glass - Amber	1L	
5	11/05/2009	KWTFS-SW103-1109	12:21	FL-PRO		SW	TRPH	4°C/H2SO4	2	Glass - Amber	1L	
	11/05/2009	KWTFS-SW103-1109	12:21	EPA 239.2		SW	Lead and Iron	4°C/HNO3	1	Plastic - PE	500ml	
	11/05/2009	KWTFS-SW103-1109	12:21	EPA 504.1		SW	EDB	4°C/NA2S2O3	3	Glass - Clear	40ml vials	

3.6

1. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gary Braganza	11/05/2009	16:15	**Federal Express**	11/05/2009	17:15
2. Relinquished By:	Date:	Time:	Received By:	Date:	Time:
				11/06/09	09:20

F69276: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F69276

HOLDTIME

SDG F69276

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/10/2009	11/10/2009	5	0	5
M	UG/L	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/10/2009	11/10/2009	5	0	5
M	UG/L	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/10/2009	11/10/2009	5	0	5
M	UG/L	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/10/2009	11/10/2009	5	0	5
EDB	%	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	%	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	%	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	%	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	UG/L	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	UG/L	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	UG/L	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
EDB	UG/L	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/12/2009	11/12/2009	7	0	7
OV	%	KW-TFS-TB-02-1109	F69276-1	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	%	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	%	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	%	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	UG/L	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	UG/L	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	UG/L	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	UG/L	KW-TFS-TB-02-1109	F69276-1	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
OV	UG/L	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/18/2009	11/18/2009	13	0	13
SIM	%	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	%	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	%	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	%	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	UG/L	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	UG/L	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	UG/L	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
SIM	UG/L	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/09/2009	11/10/2009	4	1	5
TPH	%	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6
TPH	%	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6
TPH	%	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6
TPH	MG/L	KWTFS-SW103-1109	F69276-5	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6
TPH	MG/L	KWTFS-SW100-1109	F69276-2	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6
TPH	MG/L	KWTFS-SW101-1109	F69276-3	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6
TPH	MG/L	KWTFS-SW102-1109	F69276-4	NM	11/05/2009	11/09/2009	11/11/2009	4	2	6

Instrument Performance Check (BFB)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3009-BFB	Injection Date:	11/11/09
Lab File ID:	J051265.D	Injection Time:	09:10
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	28432	21.5		Pass
75	30.0 - 60.0% of mass 95	61958	46.8		Pass
95	Base peak, 100% relative abundance	132290	100.0		Pass
96	5.0 - 9.0% of mass 95	10784	8.2		Pass
173	Less than 2.0% of mass 174	397	0.3	(0.38) [a]	Pass
174	50.0 - 100.0% of mass 95	104093	78.7		Pass
175	5.0 - 9.0% of mass 174	8336	6.3	(8.0) [a]	Pass
176	95.0 - 101.0% of mass 174	101400	76.6	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	7897	6.0	(7.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ3009-IC3009	J051266.D	11/11/09	09:37	00:27	Initial cal 1
VJ3009-IC3009	J051267.D	11/11/09	10:00	00:50	Initial cal 2
VJ3009-IC3009	J051268.D	11/11/09	10:23	01:13	Initial cal 3
VJ3009-ICC3009	J051269.D	11/11/09	10:46	01:36	Initial cal 4
VJ3009-IC3009	J051270.D	11/11/09	11:09	01:59	Initial cal 5
VJ3009-IC3009	J051271.D	11/11/09	11:32	02:22	Initial cal 6
VJ3009-ICV3009	J051272.D	11/11/09	11:55	02:45	Initial cal verification 4

Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3009-ICC3009
Lab FileID: J051269.D

Response Factor Report MSVOA6

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Nov 11 13:09:19 2009
Response via : Initial Calibration

Calibration Files
1 =J051266.D 2 =J051267.D 3 =J051268.D 4 =J051269.D
5 =J051270.D 6 =J051271.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.197	0.181	0.168	0.158	0.147	0.142	0.166	12.73
3)	P	Chloromethane	0.569	0.412	0.370	0.326	0.313	0.297	0.381	26.49
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 0.35816 *A + -0.03090 *A^2								
4)	C	Vinyl Chloride	0.384	0.340	0.303	0.283	0.249	0.245	0.301	18.03
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9984								
		Response Ratio = 0.00000 + 0.29649 *A + -0.02723 *A^2								
5)		Bromomethane	0.249	0.195	0.149	0.128	0.101	0.097	0.153	38.74
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9929								
		Response Ratio = 0.00000 + 0.14141 *A + -0.02342 *A^2								
6)		Chloroethane	0.214	0.172	0.147	0.130	0.104	0.092	0.143	31.54
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979								
		Response Ratio = 0.00000 + 0.15047 *A + -0.02986 *A^2								
7)		Trichlorofluorometh	0.352	0.330	0.302	0.281	0.254	0.244	0.294	14.43
8)		Ethyl Ether	0.321	0.257	0.206	0.201	0.181	0.177	0.224	24.77
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.20982 *A + -0.01728 *A^2								
9)		1,2-Dichlorotrifluo	0.240	0.263	0.217	0.211	0.185	0.172	0.215	15.68
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.22876 *A + -0.02871 *A^2								
10)	C	1,1-Dichloroethene	0.394	0.402	0.333	0.327	0.291	0.272	0.337	15.63
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.35303 *A + -0.04091 *A^2								
11)		Freon 113	0.197	0.219	0.181	0.180	0.156	0.142	0.179	15.39
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.19738 *A + -0.02786 *A^2								
12)		Carbon Disulfide	0.796	0.708	0.578	0.565	0.492	0.458	0.600	21.54
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.61348 *A + -0.07893 *A^2								
13)		Iodomethane	0.418	0.399	0.328	0.324	0.293	0.285	0.341	16.10
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.33807 *A + -0.02737 *A^2								
14)		Methylene Chloride	1.300	0.717	0.506	0.480	0.422	0.420	0.641	53.20
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981								
		Response Ratio = 0.00000 + 0.50068 *A + -0.04310 *A^2								

Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3009-ICC3009
Lab FileID: J051269.D

15)		Acetone	0.062	0.035	0.031	0.030	0.026	0.026	0.035	38.64
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989								
		Response Ratio = 0.00000 + 0.03068 *A + -0.00047 *A^2								
16)		Methyl acetate	0.056	0.051	0.044	0.043	0.038	0.037	0.045	16.98
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.04495 *A + -0.00084 *A^2								
17)		trans-1,2-Dichloroe	0.578	0.537	0.444	0.436	0.388	0.371	0.459	17.93
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.46242 *A + -0.04691 *A^2								
18)		Hexane	0.351	0.335	0.285	0.282	0.257	0.236	0.291	15.27
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.30856 *A + -0.03641 *A^2								
19)		Methyl Tert Butyl E	0.939	0.911	0.768	0.756	0.670	0.663	0.784	14.93
20)		Di-isopropyl ether	1.376	1.304	1.115	1.088	0.987	0.979	1.141	14.41
21)	P	1,1-Dichloroethane	0.643	0.629	0.536	0.520	0.472	0.459	0.543	14.28
22)		Acrylonitrile	0.139	0.134	0.124	0.117	0.107	0.105	0.121	11.40
23)		ETBE	1.129	1.129	0.949	0.922	0.816	0.798	0.957	15.17
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989								
		Response Ratio = 0.00000 + 0.96184 *A + -0.08540 *A^2								
24)		Vinyl acetate	0.409	0.410	0.371	0.346	0.305	0.293	0.356	14.08
25)		cis-1,2-Dichloroeth	0.373	0.356	0.303	0.299	0.272	0.267	0.312	14.04
26)		2,2-Dichloropropane	0.529	0.468	0.396	0.387	0.345	0.330	0.409	18.53
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 0.41043 *A + -0.04123 *A^2								
27)		Bromochloromethane	0.173	0.168	0.147	0.144	0.134	0.131	0.149	11.71
28)		Cyclohexane	0.681	0.661	0.547	0.541	0.477	0.438	0.558	17.45
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.59127 *A + -0.07750 *A^2								
29)	C	Chloroform	0.665	0.561	0.465	0.448	0.399	0.385	0.487	21.96
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.47419 *A + -0.04607 *A^2								
30)		Tetrahydrofuran	0.234	0.118	0.100	0.098	0.087	0.086	0.120	47.15
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987								
		Response Ratio = 0.00000 + 0.10064 *A + -0.00783 *A^2								
31)	S	Dibromofluoromethan	0.293	0.292	0.289	0.284	0.279	0.272	0.285	2.90
32)		Carbon Tetrachlorid	0.369	0.370	0.321	0.316	0.292	0.274	0.324	12.08
33)		1,1,1-Trichloroetha	0.434	0.444	0.376	0.374	0.335	0.320	0.380	13.21
34)		2-Butanone	0.157	0.148	0.130	0.128	0.117	0.114	0.132	12.86
35)		1,1-Dichloropropene	0.425	0.428	0.365	0.358	0.329	0.306	0.369	13.47
36)		Benzene	1.220	1.212	0.998	0.968	0.878	0.851	1.021	15.71
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 1.01699 *A + -0.08562 *A^2								
37)		TAME	0.906	0.878	0.750	0.733	0.650	0.640	0.760	14.73
38)	S	1,2-Dichloroethane-	0.327	0.330	0.328	0.332	0.333	0.344	0.333	1.80
39)		1,2-Dichloroethane	0.447	0.429	0.364	0.352	0.325	0.324	0.373	14.08
40)		Trichloroethene	0.310	0.302	0.255	0.248	0.224	0.214	0.259	15.22
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.26363 *A + -0.02518 *A^2								

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Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3009-ICC3009
Lab FileID: J051269.D

41)		Methylcyclohexane	0.518	0.544	0.465	0.455	0.405	0.361	0.458	14.93
42)		Dibromomethane	0.177	0.187	0.163	0.160	0.147	0.147	0.163	9.82
43)	C	1,2-Dichloropropane	0.335	0.349	0.296	0.290	0.268	0.263	0.300	11.64
44)		Bromodichloromethan	0.391	0.383	0.336	0.330	0.308	0.303	0.342	10.88
45)		2-Chloroethyl vinyl	0.203	0.202	0.169	0.160	0.137	0.128	0.166	19.06
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988								
		Response Ratio = 0.00000 + 0.17427 *A + -0.00474 *A^2								
46)		cis-1,3-Dichloropro	0.472	0.492	0.419	0.417	0.384	0.373	0.426	11.11
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	S	Toluene-d8	1.307	1.293	1.311	1.342	1.360	1.406	1.337	3.16
49)	C	Toluene	1.983	1.661	1.400	1.352	1.226	1.178	1.467	20.75
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 1.43331 *A + -0.13100 *A^2								
50)		2-Nitropropane	0.106	0.100	0.093	0.094	0.090	0.092	0.096	6.39
51)		4-Methyl-2-pentanon	0.448	0.444	0.383	0.364	0.319	0.303	0.377	16.11
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.39189 *A + -0.00910 *A^2								
52)		trans-1,3-Dichlorop	0.617	0.612	0.520	0.513	0.477	0.464	0.534	12.40
53)		Tetrachloroethene	0.418	0.433	0.360	0.361	0.342	0.318	0.372	11.99
54)		1,1,2-Trichloroetha	0.350	0.323	0.286	0.286	0.267	0.264	0.296	11.41
55)		Dibromochloromethan	0.395	0.400	0.361	0.364	0.347	0.349	0.369	6.21
56)		1,3-Dichloropropane	0.673	0.653	0.576	0.572	0.528	0.524	0.588	10.62
57)		1,2-Dibromoethane	0.376	0.393	0.355	0.351	0.326	0.330	0.355	7.40
58)		2-hexanone	0.304	0.311	0.273	0.261	0.234	0.224	0.268	13.25
59)		1-Chlorohexane	0.653	0.628	0.525	0.523	0.472	0.441	0.540	15.57
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.56213 *A + -0.06092 *A^2								
60)	C	Ethylbenzene	1.960	1.779	1.484	1.397	1.201	1.113	1.489	22.04
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991								
		Response Ratio = 0.00000 + 1.53694 *A + -0.21640 *A^2								
61)	P	Chlorobenzene	1.051	1.064	0.889	0.846	0.751	0.712	0.885	16.71
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.91042 *A + -0.10160 *A^2								
62)		1,1,1,2-Tetrachloro	0.400	0.408	0.352	0.350	0.322	0.316	0.358	10.75
63)		m,p-Xylene	1.433	1.362	1.121	1.034	0.858	0.781	1.098	23.89
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985								
		Response Ratio = 0.00000 + 1.15985 *A + -0.09678 *A^2								
64)		o-Xylene	1.522	1.489	1.261	1.208	1.061	1.011	1.259	16.87
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 1.29416 *A + -0.14556 *A^2								
65)		Styrene	1.232	1.232	1.069	1.033	0.918	0.880	1.061	14.15
66)	P	Bromoform	0.240	0.257	0.241	0.244	0.234	0.239	0.243	3.24
67)		Isopropylbenzene	1.608	1.645	1.393	1.329	1.155	1.082	1.369	16.79
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 1.44483 *A + -0.18555 *A^2								
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)	S	4-Bromofluorobenzen	0.966	0.967	0.992	0.979	1.007	1.006	0.986	1.87
70)		n-Propylbenzene	3.844	3.721	3.101	2.812	2.435	2.163	3.013	22.50
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996								

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3009-ICC3009
Lab FileID: J051269.D


```
              Response Ratio = 0.00000 + 3.22719 *A + -0.53803 *A^2

71)     Bromobenzene          0.913 0.864 0.742 0.702 0.645 0.594 0.743  16.71
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.77438 *A + -0.09071 *A^2

72)  P  1,1,2,2-Tetrachloro 0.859 0.846 0.765 0.734 0.682 0.658 0.758  10.93
73)     1,3,5-Trimethylbenz 2.696 2.711 2.232 2.044 1.750 1.590 2.170  21.64
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 2.30165 *A + -0.36234 *A^2

74)     2-Chlorotoluene       2.660 2.539 2.141 1.945 1.694 1.548 2.088  21.42
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 2.18534 *A + -0.32399 *A^2

75)     trans-1,4-Dichloro- 0.197 0.208 0.210 0.203 0.206 0.200 0.204   2.46
76)     1,2,3-Trichloroprop 0.264 0.253 0.225 0.214 0.201 0.192 0.225  12.73
77)     Cyclohexanone         0.042 0.033 0.032 0.030 0.029 0.028 0.032  15.56
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.02875 *A

78)     4-Chlorotoluene       2.565 2.338 2.023 1.901 1.710 1.589 2.021  18.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 2.08648 *A + -0.25208 *A^2

79)     tert-Butylbenzene     1.572 1.529 1.301 1.238 1.091 1.029 1.293  17.19
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 1.33921 *A + -0.15882 *A^2

80)     1,2,4-Trimethylbenz 2.803 2.808 2.351 2.194 1.942 1.812 2.318  18.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 2.40724 *A + -0.30325 *A^2

81)     sec-Butylbenzene      3.386 3.461 2.868 2.701 2.350 2.123 2.815  19.16
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 3.02926 *A + -0.45827 *A^2

82)     4-Isopropyltoluene    2.686 2.733 2.307 2.171 1.930 1.752 2.263  17.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 2.42580 *A + -0.33970 *A^2

83)     1,3-Dichlorobenzene 1.548 1.548 1.310 1.245 1.144 1.086 1.313  15.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.33848 *A + -0.12845 *A^2

84)     1,4-Dichlorobenzene 1.493 1.492 1.275 1.220 1.111 1.061 1.275  14.46
85)     n-Butylbenzene        1.673 1.737 1.432 1.331 1.161 1.046 1.397  19.64
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.50276 *A + -0.23111 *A^2

86)     Benzyl Chloride       0.336 0.359 0.327 0.305 0.275 0.254 0.309  12.75
87)     1,2-Dichlorobenzene 1.491 1.426 1.253 1.178 1.072 1.029 1.242  15.03
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 1.25806 *A + -0.11740 *A^2

88)     1,2-Dibromo-3-Chlor 0.189 0.170 0.146 0.140 0.133 0.132 0.152  15.15
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.13327 *A

89)     Hexachlorobutadiene 0.495 0.516 0.444 0.447 0.431 0.402 0.456   9.27
```

Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3009-ICC3009
Lab FileID: J051269.D

90)		1,2,4-Trichlorobenz	1.016	1.021	0.869	0.856	0.792	0.753	0.885	12.65
91)		Naphthalene	2.096	2.092	1.859	1.828	1.661	1.579	1.852	11.56
92)		1,2,3-Trichlorobenz	0.973	0.920	0.803	0.791	0.741	0.708	0.823	12.58
93)	I	Tert Butyl Alcohol-d1	----------ISTD----------							
94)		acrolein	2.292	1.361	1.174	1.123	1.121	1.051	1.354	34.84
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9984								
		Response Ratio = 0.00000 + 1.08145 *A								
95)		Tert Butyl Alcohol	1.441	1.107	0.957	0.957	0.925	0.915	1.050	19.39
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.92341 *A								
96)		tert Amyl alcohol	0.949	0.954	0.792	0.784	0.786	0.774	0.840	10.34
97)		1,4-Dioxane	0.088	0.112	0.094	0.099	0.101	0.095	0.098	8.30

(#) = Out of Range

8260-J.M Thu Nov 12 09:07:44 2009

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Instrument Performance Check (BFB)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3016-BFB	Injection Date:	11/18/09
Lab File ID:	J051454.D	Injection Time:	08:49
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	20108	23.0		Pass
75	30.0 - 60.0% of mass 95	40853	46.8		Pass
95	Base peak, 100% relative abundance	87298	100.0		Pass
96	5.0 - 9.0% of mass 95	6406	7.3		Pass
173	Less than 2.0% of mass 174	496	0.57	(0.74) [a]	Pass
174	50.0 - 100.0% of mass 95	67202	77.0		Pass
175	5.0 - 9.0% of mass 174	5611	6.4	(8.3) [a]	Pass
176	95.0 - 101.0% of mass 174	64213	73.6	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	4684	5.4	(7.3) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ3016-CC3009	J051455.D	11/18/09	09:08	00:19	Continuing cal 4
VJ3016-BS	J051456.D	11/18/09	09:33	00:44	Blank Spike
VJ3017-BS	J051456.D	11/18/09	09:33	00:44	Blank Spike
VJ3016-MB	J051457.D	11/18/09	09:56	01:07	Method Blank
VJ3017-MB	J051457.D	11/18/09	09:56	01:07	Method Blank
F69274-23A	J051458.D	11/18/09	10:21	01:32	(used for QC only; not part of job F69276)
F69274-23AMS	J051460.D	11/18/09	11:07	02:18	Matrix Spike
F69274-23AMSD	J051461.D	11/18/09	11:30	02:41	Matrix Spike Duplicate
ZZZZZZ	J051462.D	11/18/09	11:53	03:04	(unrelated sample)
ZZZZZZ	J051464.D	11/18/09	12:40	03:51	(unrelated sample)
F69347-6	J051465.D	11/18/09	13:02	04:13	(used for QC only; not part of job F69276)
ZZZZZZ	J051466.D	11/18/09	13:25	04:36	(unrelated sample)
ZZZZZZ	J051467.D	11/18/09	13:48	04:59	(unrelated sample)
ZZZZZZ	J051468.D	11/18/09	14:11	05:22	(unrelated sample)
F69276-1	J051469.D	11/18/09	14:34	05:45	KW-TFS-TB-02-1109
F69276-2	J051470.D	11/18/09	14:57	06:08	KWTFS-SW100-1109
F69276-3	J051471.D	11/18/09	15:20	06:31	KWTFS-SW101-1109
F69276-4	J051472.D	11/18/09	15:43	06:54	KWTFS-SW102-1109
F69276-5	J051473.D	11/18/09	16:06	07:17	KWTFS-SW103-1109
F69347-6MS	J051474.D	11/18/09	16:29	07:40	Matrix Spike
F69347-6MSD	J051475.D	11/18/09	16:52	08:03	Matrix Spike Duplicate
ZZZZZZ	J051476.D	11/18/09	17:15	08:26	(unrelated sample)
ZZZZZZ	J051477.D	11/18/09	17:37	08:48	(unrelated sample)
ZZZZZZ	J051478.D	11/18/09	18:00	09:11	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3016-BFB	Injection Date:	11/18/09
Lab File ID:	J051454.D	Injection Time:	08:49
Instrument ID:	GCMSJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J051479.D	11/18/09	18:23	09:34	(unrelated sample)
ZZZZZZ	J051480.D	11/18/09	18:46	09:57	(unrelated sample)
ZZZZZZ	J051481.D	11/18/09	19:09	10:20	(unrelated sample)
ZZZZZZ	J051482.D	11/18/09	19:33	10:44	(unrelated sample)
ZZZZZZ	J051483.D	11/18/09	19:56	11:07	(unrelated sample)

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3016-CC3009
Lab FileID: J051455.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\111809\J051455.D Vial: 1
Acq On : 18 Nov 2009 9:08 am Operator: KarenW
Sample : CC3009-4 Inst : MSVOA6
Misc : ms13201,vj3016,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 16 14:50:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00	7.48
2		Dichlorodifluoromethane	0.166	0.138	16.9	83	-0.02	2.73
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	42.190	-5.5	102	-0.01	2.87
4	C	Vinyl Chloride	40.000	42.489	-6.2	97	0.00	3.01
5		Bromomethane	40.000	46.714	-16.8	104	-0.01	3.39
6		Chloroethane	40.000	46.367	-15.9	104	0.00	3.55
			AvgRF	CCRF	%Dev			
7		Trichlorofluoromethane	0.294	0.306	-4.1	103	0.00	3.69
			Amount	Calc.	%Drift			
8		Ethyl Ether	40.000	44.239	-10.6	101	0.00	3.99
9		1,2-Dichlorotrifluoroetha	40.000	44.253	-10.6	101	0.00	4.22
10	C	1,1-Dichloroethene	40.000	43.930	-9.8	101	0.00	4.25
11		Freon 113	40.000	39.625	0.9	91	-0.01	4.32
12		Carbon Disulfide	40.000	41.412	-3.5	95	-0.01	4.31
13		Iodomethane	40.000	40.482	-1.2	94	-0.01	4.42
14		Methylene Chloride	40.000	41.091	-2.7	95	-0.01	4.85
15		Acetone	200.000	200.063	-0.0	92	0.00	4.88
16		Methyl acetate	200.000	207.551	-3.8	96	0.00	5.00
17		trans-1,2-Dichloroethene	40.000	39.875	0.3	92	-0.01	5.02
18		Hexane	40.000	38.661	3.3	91	0.00	5.09
			AvgRF	CCRF	%Dev			
19		Methyl Tert Butyl Ether	0.784	0.691	11.9	87	0.00	5.14
20		Di-isopropyl ether	1.141	1.057	7.4	92	0.00	5.50
21	P	1,1-Dichloroethane	0.543	0.508	6.4	93	0.00	5.66
22		Acrylonitrile	0.121	0.115	5.0	93	0.00	5.69
			Amount	Calc.	%Drift			
23		ETBE	40.000	39.845	0.4	92	0.00	5.88
			AvgRF	CCRF	%Dev			
24		Vinyl acetate	0.356	0.340	4.5	93	0.00	5.87
25		cis-1,2-Dichloroethene	0.312	0.278	10.9	88	0.00	6.21
			Amount	Calc.	%Drift			
26		2,2-Dichloropropane	40.000	35.495	11.3	83	0.00	6.35
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3016-CC3009
Lab FileID: J051455.D

27		Bromochloromethane	0.149	0.131	12.1	87	0.00	6.42
			Amount	Calc.	%Drift			
28		Cyclohexane	40.000	34.838	12.9	82	0.00	6.47
29	C	Chloroform	40.000	39.181	2.0	91	0.00	6.47
30		Tetrahydrofuran	40.000	39.366	1.6	90	0.01	6.66
			AvgRF	CCRF	%Dev			
31	S	Dibromofluoromethane	0.285	0.275	3.5	92	0.00	6.66
32		Carbon Tetrachloride	0.324	0.264	18.5	79	0.00	6.66
33		1,1,1-Trichloroethane	0.380	0.315	17.1	80	0.00	6.72
34		2-Butanone	0.132	0.128	3.0	96	0.00	6.76
35		1,1-Dichloropropene	0.369	0.331	10.3	88	0.00	6.83
			Amount	Calc.	%Drift			
36		Benzene	40.000	38.881	2.8	91	0.00	7.08
			AvgRF	CCRF	%Dev			
37		TAME	0.760	0.678	10.8	88	0.00	7.17
38	S	1,2-Dichloroethane-d4	0.333	0.338	-1.5	97	0.00	7.20
39		1,2-Dichloroethane	0.373	0.346	7.2	94	0.00	7.27
			Amount	Calc.	%Drift			
40		Trichloroethene	40.000	38.244	4.4	89	0.00	7.65
			AvgRF	CCRF	%Dev			
41		Methylcyclohexane	0.458	0.396	13.5	83	0.00	7.68
42		Dibromomethane	0.163	0.152	6.7	90	0.00	8.07
43	C	1,2-Dichloropropane	0.300	0.290	3.3	95	0.00	8.17
44		Bromodichloromethane	0.342	0.312	8.8	90	0.00	8.21
			Amount	Calc.	%Drift			
45		2-Chloroethyl vinyl ether	200.000	216.540	-8.3	99	0.00	8.74
			AvgRF	CCRF	%Dev			
46		cis-1,3-Dichloropropene	0.426	0.396	7.0	90	0.00	8.83
47	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00	10.57
48	S	Toluene-d8	1.337	1.371	-2.5	96	0.00	9.02
			Amount	Calc.	%Drift			
49	C	Toluene	40.000	39.426	1.4	91	0.00	9.08
			AvgRF	CCRF	%Dev			
50		2-Nitropropane	0.096	0.093	3.1	93	0.00	9.28
			Amount	Calc.	%Drift			
51		4-Methyl-2-pentanone	200.000	217.192	-8.6	99	0.00	9.41
			AvgRF	CCRF	%Dev			
52		trans-1,3-Dichloropropene	0.534	0.519	2.8	95	0.00	9.45
53		Tetrachloroethene	0.372	0.307	17.5	80	0.00	9.47
54		1,1,2-Trichloroethane	0.296	0.279	5.7	91	0.00	9.62
55		Dibromochloromethane	0.369	0.323	12.5	83	0.00	9.81
56		1,3-Dichloropropane	0.588	0.556	5.4	91	0.00	9.90
57		1,2-Dibromoethane	0.355	0.321	9.6	86	0.00	10.07
58		2-hexanone	0.268	0.264	1.5	95	0.00	10.22
			Amount	Calc.	%Drift			
59		1-Chlorohexane	40.000	36.713	8.2	85	0.00	10.53

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3016-CC3009
Lab FileID: J051455.D

60	C	Ethylbenzene	40.000	40.275	-0.7	92	0.00	10.59
61	P	Chlorobenzene	40.000	40.378	-0.9	93	0.00	10.59
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.358	0.313	12.6	84	0.00	10.64
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	79.983	0.0	91	0.00	10.73
64		o-Xylene	40.000	38.118	4.7	88	0.00	11.17
			AvgRF	CCRF	%Dev			
65		Styrene	1.061	0.951	10.4	86	0.00	11.22
66	P	Bromoform	0.243	0.210	13.6	81	0.00	11.26
			Amount	Calc.	%Drift			
67		Isopropylbenzene	40.000	36.675	8.3	85	0.00	11.48
			AvgRF	CCRF	%Dev			
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	12.93
69	S	4-Bromofluorobenzene	0.986	1.011	-2.5	93	0.00	11.78
			Amount	Calc.	%Drift			
70		n-Propylbenzene	40.000	40.818	-2.0	91	0.00	11.90
71		Bromobenzene	40.000	38.015	5.0	86	0.00	11.90
			AvgRF	CCRF	%Dev			
72	P	1,1,2,2-Tetrachloroethane	0.758	0.749	1.2	92	0.00	11.95
			Amount	Calc.	%Drift			
73		1,3,5-Trimethylbenzene	40.000	39.695	0.8	88	0.00	12.09
74		2-Chlorotoluene	40.000	41.137	-2.8	91	0.00	12.08
			AvgRF	CCRF	%Dev			
75		trans-1,4-Dichloro-2-Bute	0.204	0.182	10.8	81	0.00	12.13
76		1,2,3-Trichloropropane	0.225	0.209	7.1	88	0.00	12.11
			Amount	Calc.	%Drift			
77		Cyclohexanone	200.000	198.600	0.7	87	0.00	12.17
78		4-Chlorotoluene	40.000	40.685	-1.7	91	0.00	12.25
79		tert-Butylbenzene	40.000	38.234	4.4	85	0.00	12.42
80		1,2,4-Trimethylbenzene	40.000	39.476	1.3	88	0.00	12.49
81		sec-Butylbenzene	40.000	38.090	4.8	85	0.00	12.61
82		4-Isopropyltoluene	40.000	37.277	6.8	84	0.00	12.75
83		1,3-Dichlorobenzene	40.000	37.363	6.6	84	0.00	12.86
			AvgRF	CCRF	%Dev			
84		1,4-Dichlorobenzene	1.275	1.160	9.0	86	0.00	12.95
			Amount	Calc.	%Drift			
85		n-Butylbenzene	40.000	40.886	-2.2	91	0.00	13.18
			AvgRF	CCRF	%Dev			
86		Benzyl Chloride	0.309	0.299	3.2	88	0.00	13.18
			Amount	Calc.	%Drift			
87		1,2-Dichlorobenzene	40.000	38.108	4.7	85	0.00	13.38
88		1,2-Dibromo-3-Chloropropa	40.000	36.249	9.4	81	0.00	14.13
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3016-CC3009
Lab FileID: J051455.D

89	Hexachlorobutadiene	0.456	0.347	23.9#	70	0.00	14.71
90	1,2,4-Trichlorobenzene	0.885	0.745	15.8	78	0.00	14.74
91	Naphthalene	1.852	1.638	11.6	81	0.00	15.02
92	1,2,3-Trichlorobenzene	0.823	0.668	18.8	76	0.00	15.19
93 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	88	0.00	5.11
		Amount	Calc.	%Drift			
94	acrolein	200.000	158.584	20.7#	67	0.00	4.59
95	Tert Butyl Alcohol	400.000	390.990	2.3	83	0.01	5.19
		AvgRF	CCRF	%Dev			
96	tert Amyl alcohol	0.840	0.743	11.5	84	0.00	7.32
97	1,4-Dioxane	0.098	0.082	16.3	73	0.00	8.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J051269.D 8260-J.M Wed Nov 18 13:15:54 2009

5.7.3 5

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ3016-MB	J051457.D	1	11/18/09	KW	n/a	n/a	VJ3016

The QC reported here applies to the following samples: Method: SW846 8260B

F69276-1, F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ3016-MB	J051457.D	1	11/18/09	KW	n/a	n/a	VJ3016

The QC reported here applies to the following samples: Method: SW846 8260B

F69276-1, F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Volatile Surrogate Recovery Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Method: EPA 504.1	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F69276-2	DD52828.D	91.0
F69276-3	DD52829.D	93.0
F69276-4	DD52830.D	86.0
F69276-5	DD52831.D	82.0
OP30883-BS	DD52822.D	106.0
OP30883-MB	DD52823.D	103.0
OP30883-MS	DD52826.D	94.0
OP30883-MSD	DD52827.D	96.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	63-137%

(a) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GDD1533-ICC1533	Injection Date:	11/12/09
Lab File ID:	DD52816.D	Injection Time:	13:47
Instrument ID:	GCDD	Method:	EPA 504.1

	S1 [a] RT
Check Std	6.80

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30883-BS	DD52822.D	11/12/09	15:49	6.80
OP30883-MB	DD52823.D	11/12/09	16:10	6.80
ZZZZZZ	DD52824.D	11/12/09	16:30	6.80
F69228-8	DD52825.D	11/12/09	16:50	6.80
OP30883-MS	DD52826.D	11/12/09	17:10	6.80
OP30883-MSD	DD52827.D	11/12/09	17:30	6.80
F69276-2	DD52828.D	11/12/09	17:51	6.80
F69276-3	DD52829.D	11/12/09	18:11	6.80
F69276-4	DD52830.D	11/12/09	18:31	6.80
F69276-5	DD52831.D	11/12/09	18:51	6.80

Surrogate Compounds

S1 = 4-Bromofluorobenzene

(a) Retention time from GC signal #2

Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1533-ICC1533
Lab FileID: DD52816.D

Response Factor Report ECD 4

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 12 15:07:42 2009
Response via : Initial Calibration

Calibration Files
1 =DD52819.D .75 =DD52818.D .50 =DD52817.D .25 =DD52816.D
0.1 =DD52815.D 0.02 =DD52814.D

	Compound	1	.75	.50	.25	0.1	0.02	Avg		%RSD
1)	1,2-Dibromoethane	3.496	3.628	3.832	3.797	3.957	4.508	3.870	E7	9.10
2) S	4-Bromofluorobenzen	2.111	2.272	2.295	2.345	2.618	1.659	2.217	E6	14.40
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
	Response Ratio = 0.00000 + 2523294.60313 *A + -49675.31750 *A^2									
3)	1,2,3-Trichloroprop	4.642	4.922	5.957	5.893	4.700		5.223	E6	12.44
4)	1,2-Dibromo-3-chlor	0.756	0.758	0.797	0.796	0.845	1.024	0.829	E8	12.16
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 81837603.63224 *A + -6594188.86527 *A^2									

Signal #2

1)	1,2-Dibromoethane	1.325	1.325	1.352	1.314	1.352	1.758	1.404	E7	12.38
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 13492789.10952 *A + -248038.82371 *A^2									
2) S	4-Bromofluorobenzen	8.825	9.113	9.236	9.111	9.477	6.482	8.707	E5	12.75
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 956396.22533 *A + -8835.13470 *A^2									
3)	1,2,3-Trichloroprop	2.052	2.161	2.249	2.121	2.276		2.172	E6	4.23
4)	1,2-Dibromo-3-chlor	2.895	2.876	2.898	2.805	2.714	2.984	2.862	E7	3.22

(#) = Out of Range

504_1.M Fri Nov 13 08:43:44 2009

9.6.1

Initial Calibration Verification

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1533-ICV1533
Lab FileID: DD52821.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\1112EDB\DD52821.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\1112EDB\DD52821.D\ECD2B.CH
Acq On : 12 Nov 2009 3:29 pm Operator: britneyr
Sample : icv1533-0.10 Inst : ECD 4
Misc : op30883,gdd1533,35.1,,,2,1,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 12 15:07:42 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.100	0.102	-2.0	100	0.00	4.86- 5.06
2 S	4-Bromofluorobenzene	Amount	Calc.	%Drift			
				----------NA----------			
3	1,2,3-Trichloropropane	0.100	0.082	18.0	91	0.00	6.66- 6.86
4	1,2-Dibromo-3-chloropr	0.100	0.103	-3.0	99	0.00	8.70- 8.89
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.100	0.101	-1.0	101	0.00	4.92- 5.12
2 S	4-Bromofluorobenzene	Amount	Calc.	%Drift			
				----------NA----------			
3	1,2,3-Trichloropropane	0.100	0.084	16.0	80	0.00	6.64- 6.84
4	1,2-Dibromo-3-chloropr	0.100	0.095	5.0	100	0.00	8.53- 8.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
DD52815.D 504_1.M Fri Nov 13 08:44:36 2009

9.6.2 9

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GDD1533-CC1533
Lab FileID: DD52832.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\1112EDB\DD52832.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\1112EDB\DD52832.D\ECD2B.CH
Acq On : 12 Nov 2009 7:11 pm Operator: britneyr
Sample : cc1533-0.50 Inst : ECD 4
Misc : op30883,gdd1533,35.3,,,2,1,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\2\METHODS\504_1.M (Chemstation Integrator)
Title : EDB/DBCP by EPA 504/504.1 or SW846 8011
Last Update : Thu Nov 12 15:07:42 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	1,2-Dibromoethane	0.500	0.483	3.4	98	0.00	4.86- 5.06
	----------	Amount	Calc.	%Drift	----------		
2 S	4-Bromofluorobenzene	4.000	3.643	8.9	93	0.00	6.64- 6.84
	----------	Amount	Calc.	%Drift	----------		
3	1,2,3-Trichloropropane	0.500	0.511	-2.2	90	0.00	6.66- 6.86
	----------	Amount	Calc.	%Drift	----------		
4	1,2-Dibromo-3-chloropr	0.500	0.486	2.8	96	0.00	8.70- 8.89
*****	Signal #2 *****						
1	1,2-Dibromoethane	0.500	0.502	-0.4	99	0.00	4.92- 5.12
2 S	4-Bromofluorobenzene	4.000	4.027	-0.7	100	0.00	6.70- 6.90
	----------	Amount	Calc.	%Drift	----------		
3	1,2,3-Trichloropropane	0.500	0.516	-3.2	100	0.00	6.64- 6.84
4	1,2-Dibromo-3-chloropr	0.500	0.504	-0.8	100	0.00	8.53- 8.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
DD52817.D 504_1.M Fri Nov 13 08:45:35 2009

9.6.3 9

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30883-MB	DD52823.D	1	11/12/09	BR	11/12/09	OP30883	GDD1533

The QC reported here applies to the following samples: Method: EPA 504.1

F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	63-137%

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2421-DFTPP	Injection Date:	10/09/09
Lab File ID:	W047938.D	Injection Time:	11:51
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36838	39.7		Pass
68	Less than 2.0% of mass 69	76	0.08	(0.21) [a]	Pass
69	Mass 69 relative abundance	35475	38.2		Pass
70	Less than 2.0% of mass 69	243	0.26	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	48387	52.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	92747	100.0		Pass
199	5.0 - 9.0% of mass 198	6591	7.1		Pass
275	10.0 - 30.0% of mass 198	19395	20.9		Pass
365	1.0 - 100.0% of mass 198	2032	2.2		Pass
441	Present, but less than mass 443	8862	9.6	(75.1) [b]	Pass
442	40.0 - 100.0% of mass 198	58883	63.5		Pass
443	17.0 - 23.0% of mass 442	11794	12.7	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2421-IC2421	W047940.D	10/09/09	13:13	01:22	Initial cal 1
SW2421-IC2421	W047941.D	10/09/09	13:41	01:50	Initial cal 2
SW2421-IC2421	W047942.D	10/09/09	14:09	02:18	Initial cal 3
SW2421-ICC2421	W047943.D	10/09/09	14:36	02:45	Initial cal 4
SW2421-IC2421	W047944.D	10/09/09	15:04	03:13	Initial cal 5
SW2421-IC2421	W047945.D	10/09/09	15:31	03:40	Initial cal 6
SW2421-IC2421	W047946.D	10/09/09	15:59	04:08	Initial cal 7
SW2421-ICV2421	W047947.D	10/09/09	16:26	04:35	Initial cal verification 5
OP30536-BS	W047948.D	10/09/09	16:54	05:03	Blank Spike
OP30536-MB	W047949.D	10/09/09	17:21	05:30	Method Blank
ZZZZZZ	W047950.D	10/09/09	17:49	05:58	(unrelated sample)
ZZZZZZ	W047951.D	10/09/09	18:16	06:25	(unrelated sample)
ZZZZZZ	W047952.D	10/09/09	18:43	06:52	(unrelated sample)
ZZZZZZ	W047953.D	10/09/09	19:10	07:19	(unrelated sample)
F68546-1	W047954.D	10/09/09	19:37	07:46	(used for QC only; not part of job F69276)
OP30536-MS	W047955.D	10/09/09	20:04	08:13	Matrix Spike
OP30536-MSD	W047956.D	10/09/09	20:31	08:40	Matrix Spike Duplicate
ZZZZZZ	W047957.D	10/09/09	20:58	09:07	(unrelated sample)

Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2421-ICC2421
Lab FileID: W047943.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 12 11:09:30 2009
Response via : Initial Calibration

Calibration Files
L1 =W047940.D L2 =W047941.D L3 =W047942.D L4 =W047943.D
L5 =W047944.D L6 =W047945.D L7 =W047946.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.304	0.333	0.323	0.331	0.330	0.309	0.320	0.321	3.52
3)P N-nitroso-di-n-pr		0.087	0.080	0.078	0.078	0.069	0.070	0.077	8.98
4) Naphthalene	1.154	1.256	1.163	1.150	1.069	0.968	0.968	1.104	9.76
5) 2-Methylnaphthale	0.752	0.813	0.770	0.770	0.717	0.643	0.644	0.730	8.97
6) 1-Methylnaphthale	0.696	0.761	0.719	0.710	0.666	0.599	0.602	0.679	8.93
7) I Acenaphthene-d10	ISTD								
8)P Hexachlorocyclope		0.206	0.222	0.234	0.254	0.249	0.260	0.238	8.76
9)S 2-Fluorobiphenyl	1.633	1.736	1.669	1.667	1.920	1.829	1.516	1.710	7.78
10) Acenaphthylene	2.154	2.335	2.230	2.169	2.050	1.857	1.845	2.092	8.85
11)C Acenaphthene	1.358	1.439	1.366	1.331	1.276	1.152	1.185	1.301	7.92
12)P 2,4-Dinitrophenol		0.045	0.061	0.077	0.118	0.133	0.141	0.096	41.81
13)P 4-Nitrophenol		0.214	0.222	0.240	0.236	0.246	0.239	0.233	5.18
14) Fluorene	1.494	1.565	1.501	1.462	1.373	1.318	1.309	1.432	6.91
15) I Phenanthrene-d10	ISTD								
16) Phenanthrene	1.446	1.518	1.444	1.421	1.312	1.229	1.245	1.374	8.11
17) Anthracene	1.424	1.484	1.448	1.433	1.319	1.237	1.252	1.371	7.30
18)C Fluoranthene	1.442	1.538	1.487	1.462	1.336	1.257	1.284	1.401	7.73
19) I Chrysene-d12	ISTD								
20) Pyrene	2.452	2.613	2.517	2.436	2.277	2.138	2.132	2.366	7.92
21)S Terphenyl-d14	0.916	0.974	0.942	0.967	0.937	0.889	0.894	0.931	3.58
22) Benzo[a]anthracen	1.885	1.942	1.839	1.889	1.935	1.894	1.916	1.900	1.85
23) Chrysene	1.800	1.909	1.893	1.910	1.897	1.856	1.876	1.877	2.08
24) I Perylene-d12	ISTD								
25) Benzo[b]fluoranth	1.609	1.654	1.662	1.804	1.826	1.806	1.850	1.744	5.65
26) Benzo[k]fluoranth	1.667	1.872	1.870	1.842	1.872	1.932	1.959	1.859	5.05
27)C Benzo[a]pyrene	1.399	1.493	1.491	1.564	1.616	1.640	1.670	1.553	6.24
28) Indeno[1,2,3-cd]p	1.208	1.219	1.225	1.307	1.342	1.407	1.454	1.309	7.47
29) Dibenz[a,h]anthra	1.099	1.129	1.173	1.231	1.279	1.320	1.355	1.226	7.91
30) Benzo[g,h,i]peryl	1.528	1.569	1.550	1.602	1.622	1.641	1.670	1.598	3.20

(#) = Out of Range

SIM_PAHA.M Mon Oct 12 11:11:42 2009

7.7.1

7

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2443-DFTPP	Injection Date:	11/10/09
Lab File ID:	W048413.D	Injection Time:	11:07
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	76295	32.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	83556	35.7		Pass
70	Less than 2.0% of mass 69	387	0.17	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	118843	50.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	233771	100.0		Pass
199	5.0 - 9.0% of mass 198	16126	6.9		Pass
275	10.0 - 30.0% of mass 198	51896	22.2		Pass
365	1.0 - 100.0% of mass 198	5397	2.3		Pass
441	Present, but less than mass 443	24950	10.7	(73.5) [b]	Pass
442	40.0 - 100.0% of mass 198	170792	73.1		Pass
443	17.0 - 23.0% of mass 442	33927	14.5	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2443-CC2421	W048414.D	11/10/09	11:25	00:18	Continuing cal 5
OP30839-BS	W048415.D	11/10/09	12:02	00:55	Blank Spike
OP30839-MB	W048416.D	11/10/09	12:30	01:23	Method Blank
F69266-1	W048417.D	11/10/09	13:03	01:56	(used for QC only; not part of job F69276)
OP30839-MS	W048418.D	11/10/09	13:31	02:24	Matrix Spike
OP30839-MSD	W048419.D	11/10/09	13:58	02:51	Matrix Spike Duplicate
ZZZZZZ	W048420.D	11/10/09	14:25	03:18	(unrelated sample)
ZZZZZZ	W048421.D	11/10/09	14:53	03:46	(unrelated sample)
F69276-2	W048422.D	11/10/09	15:20	04:13	KWTFS-SW100-1109
F69276-3	W048423.D	11/10/09	15:47	04:40	KWTFS-SW101-1109
F69276-4	W048424.D	11/10/09	16:15	05:08	KWTFS-SW102-1109
OP30845-BS	W048425.D	11/10/09	16:47	05:40	Blank Spike
OP30845-MB	W048426.D	11/10/09	17:14	06:07	Method Blank
ZZZZZZ	W048427.D	11/10/09	17:41	06:34	(unrelated sample)
ZZZZZZ	W048428.D	11/10/09	18:09	07:02	(unrelated sample)
F69129-19	W048429.D	11/10/09	18:36	07:29	(used for QC only; not part of job F69276)
OP30845-MS	W048430.D	11/10/09	19:03	07:56	Matrix Spike
OP30845-MSD	W048431.D	11/10/09	19:31	08:24	Matrix Spike Duplicate
ZZZZZZ	W048432.D	11/10/09	19:58	08:51	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2443-DFTPP	Injection Date:	11/10/09
Lab File ID:	W048413.D	Injection Time:	11:07
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F69276-5	W048433.D	11/10/09	20:25	09:18	KWTFS-SW103-1109
ZZZZZZ	W048434.D	11/10/09	20:53	09:46	(unrelated sample)
ZZZZZZ	W048435.D	11/10/09	21:20	10:13	(unrelated sample)
ZZZZZZ	W048436.D	11/10/09	21:47	10:40	(unrelated sample)
ZZZZZZ	W048437.D	11/10/09	22:15	11:08	(unrelated sample)
ZZZZZZ	W048438.D	11/10/09	22:42	11:35	(unrelated sample)

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2443-CC2421
Lab FileID: W048414.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111009\W048414.D Vial: 2
Acq On : 10 Nov 2009 11:25 am Operator: rayb
Sample : cc2421-5 Inst : MSBNA01
Misc : op30747,sw2443,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Tue Nov 10 14:19:19 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00	6.17
2	S	Nitrobenzene-d5	0.321	0.318	0.9	76	0.00	5.49
3	P	N-nitroso-di-n-propylamin	0.077	0.075	2.6	76	0.00	5.36
4		Naphthalene	1.104	1.038	6.0	77	0.00	6.20
5		2-Methylnaphthalene	0.730	0.695	4.8	77	0.02	6.99
6		1-Methylnaphthalene	0.679	0.639	5.9	76	0.02	7.12
7	I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00	8.47
8	P	Hexachlorocyclopentadiene	0.238	0.237	0.4	73	-0.01	7.19
9	S	2-Fluorobiphenyl	1.710	1.970	-15.2	81	0.00	7.49
10		Acenaphthylene	2.092	2.011	3.9	77	0.00	8.25
11	C	Acenaphthene	1.301	1.219	6.3	75	-0.01	8.51
12	P	2,4-Dinitrophenol	0.096	0.153	-59.4#	102	0.01	8.61
13	P	4-Nitrophenol	0.233	0.264	-13.3	88	0.03	8.77
14		Fluorene	1.432	1.377	3.8	79	0.01	9.36
15	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00	10.97
16		Phenanthrene	1.374	1.257	8.5	78	0.00	11.01
17		Anthracene	1.371	1.276	6.9	78	0.00	11.10
18	C	Fluoranthene	1.401	1.393	0.6	84	-0.06	13.19
19	I	Chrysene-d12	1.000	1.000	0.0	79	0.00	15.89
20		Pyrene	2.366	2.218	6.3	77	-0.03	13.60
21	S	Terphenyl-d14	0.931	0.977	-4.9	82	-0.02	14.00
22		Benzo[a]anthracene	1.900	1.839	3.2	75	0.00	15.88
23		Chrysene	1.877	1.756	6.4	73	0.00	15.93
24	I	Perylene-d12	1.000	1.000	0.0	74	0.00	18.39
25		Benzo[b]fluoranthene	1.744	1.796	-3.0	73	0.00	17.78
26		Benzo[k]fluoranthene	1.859	1.737	6.6	69	0.00	17.83
27	C	Benzo[a]pyrene	1.553	1.547	0.4	71	-0.02	18.30
28		Indeno[1,2,3-cd]pyrene	1.309	1.262	3.6	70	-0.02	19.99
29		Dibenz[a,h]anthracene	1.226	1.187	3.2	69	-0.02	20.03
30		Benzo[g,h,i]perylene	1.598	1.410	11.8	64	-0.02	20.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W047944.D SIM_PAHA.M Tue Nov 10 14:21:43 2009

7.7.3

7

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2444-DFTPP	Injection Date:	11/11/09
Lab File ID:	W048449.D	Injection Time:	12:42
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	60879	30.8		Pass
68	Less than 2.0% of mass 69	113	0.06	(0.17) [a]	Pass
69	Mass 69 relative abundance	65539	33.2		Pass
70	Less than 2.0% of mass 69	321	0.16	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	96217	48.7		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	197550	100.0		Pass
199	5.0 - 9.0% of mass 198	13562	6.9		Pass
275	10.0 - 30.0% of mass 198	44680	22.6		Pass
365	1.0 - 100.0% of mass 198	4678	2.4		Pass
441	Present, but less than mass 443	23280	11.8	(77.9) [b]	Pass
442	40.0 - 100.0% of mass 198	155306	78.6		Pass
443	17.0 - 23.0% of mass 442	29901	15.1	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2444-CC2421	W048450.D	11/11/09	12:59	00:17	Continuing cal 4
OP30840-BS	W048451.D	11/11/09	13:32	00:50	Blank Spike
OP30840-MB	W048452.D	11/11/09	13:59	01:17	Method Blank
ZZZZZZ	W048453.D	11/11/09	14:27	01:45	(unrelated sample)
ZZZZZZ	W048454.D	11/11/09	14:54	02:12	(unrelated sample)
ZZZZZZ	W048455.D	11/11/09	15:22	02:40	(unrelated sample)
ZZZZZZ	W048456.D	11/11/09	15:49	03:07	(unrelated sample)
ZZZZZZ	W048457.D	11/11/09	16:16	03:34	(unrelated sample)
ZZZZZZ	W048458.D	11/11/09	16:43	04:01	(unrelated sample)
F69231-3	W048459.D	11/11/09	17:10	04:28	(used for QC only; not part of job F69276)
OP30840-MS	W048460.D	11/11/09	17:37	04:55	Matrix Spike
OP30840-MSD	W048461.D	11/11/09	18:05	05:23	Matrix Spike Duplicate
ZZZZZZ	W048462.D	11/11/09	18:32	05:50	(unrelated sample)
OP30839-MB	W048463.D	11/11/09	18:59	06:17	Method Blank
F69266-1	W048464.D	11/11/09	19:26	06:44	(used for QC only; not part of job F69276)
ZZZZZZ	W048465.D	11/11/09	19:53	07:11	(unrelated sample)
ZZZZZZ	W048466.D	11/11/09	20:20	07:38	(unrelated sample)
ZZZZZZ	W048467.D	11/11/09	20:48	08:06	(unrelated sample)
ZZZZZZ	W048468.D	11/11/09	21:15	08:33	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2444-DFTPP	Injection Date:	11/11/09
Lab File ID:	W048449.D	Injection Time:	12:42
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W048469.D	11/11/09	21:42	09:00	(unrelated sample)
ZZZZZZ	W048470.D	11/11/09	22:09	09:27	(unrelated sample)
ZZZZZZ	W048471.D	11/11/09	22:36	09:54	(unrelated sample)
ZZZZZZ	W048472.D	11/11/09	23:03	10:21	(unrelated sample)
ZZZZZZ	W048473.D	11/11/09	23:30	10:48	(unrelated sample)
ZZZZZZ	W048474.D	11/11/09	23:57	11:15	(unrelated sample)
ZZZZZZ	W048475.D	11/12/09	00:24	11:42	(unrelated sample)

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2444-CC2421
Lab FileID: W048450.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111109\W048450.D Vial: 2
Acq On : 11 Nov 2009 12:59 pm Operator: rayb
Sample : cc2421-4 Inst : MSBNA01
Misc : op30747,sw2444,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Nov 11 14:44:12 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00	6.16
2	S	Nitrobenzene-d5	0.321	0.319	0.6	87	0.00	5.48
3	P	N-nitroso-di-n-propylamin	0.077	0.074	3.9	85	0.00	5.34
4		Naphthalene	1.104	1.090	1.3	86	0.00	6.18
5		2-Methylnaphthalene	0.730	0.735	-0.7	86	0.00	6.97
6		1-Methylnaphthalene	0.679	0.671	1.2	85	0.00	7.09
7	I	Acenaphthene-d10	1.000	1.000	0.0	89	0.00	8.43
8	P	Hexachlorocyclopentadiene	0.238	0.232	2.5	88	0.00	7.17
9	S	2-Fluorobiphenyl	1.710	1.710	0.0	91	0.00	7.46
10		Acenaphthylene	2.092	2.125	-1.6	87	0.00	8.22
11	C	Acenaphthene	1.301	1.325	-1.8	89	0.00	8.49
12	P	2,4-Dinitrophenol	0.096	0.130	-35.4#	150	0.01	8.58
13	P	4-Nitrophenol	0.233	0.262	-12.4	97	0.03	8.74
14		Fluorene	1.432	1.471	-2.7	90	0.02	9.33
15	I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00	10.93
16		Phenanthrene	1.374	1.311	4.6	88	0.00	10.98
17		Anthracene	1.371	1.330	3.0	88	0.00	11.07
18	C	Fluoranthene	1.401	1.390	0.8	90	-0.05	13.16
19	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	15.87
20		Pyrene	2.366	2.256	4.6	86	-0.03	13.57
21	S	Terphenyl-d14	0.931	0.987	-6.0	94	-0.02	13.97
22		Benzo[a]anthracene	1.900	1.825	3.9	89	0.00	15.84
23		Chrysene	1.877	1.772	5.6	86	0.00	15.91
24	I	Perylene-d12	1.000	1.000	0.0	89	0.00	18.36
25		Benzo[b]fluoranthene	1.744	1.739	0.3	86	0.00	17.75
26		Benzo[k]fluoranthene	1.859	1.819	2.2	88	0.00	17.79
27	C	Benzo[a]pyrene	1.553	1.566	-0.8	89	-0.03	18.27
28		Indeno[1,2,3-cd]pyrene	1.309	1.271	2.9	86	-0.03	19.95
29		Dibenz[a,h]anthracene	1.226	1.141	6.9	82	-0.03	20.00
30		Benzo[g,h,i]perylene	1.598	1.402	12.3	78	-0.02	20.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W047943.D SIM_PAHA.M Thu Nov 12 09:52:50 2009

7.7.4

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2445-DFTPP	Injection Date:	11/12/09
Lab File ID:	W048480.D	Injection Time:	14:57
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39222	32.1		Pass
68	Less than 2.0% of mass 69	77	0.06	(0.18) [a]	Pass
69	Mass 69 relative abundance	43326	35.4		Pass
70	Less than 2.0% of mass 69	144	0.12	(0.33) [a]	Pass
127	40.0 - 60.0% of mass 198	60864	49.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	122224	100.0		Pass
199	5.0 - 9.0% of mass 198	8536	7.0		Pass
275	10.0 - 30.0% of mass 198	27075	22.2		Pass
365	1.0 - 100.0% of mass 198	2905	2.4		Pass
441	Present, but less than mass 443	14047	11.5	(76.4) [b]	Pass
442	40.0 - 100.0% of mass 198	91971	75.2		Pass
443	17.0 - 23.0% of mass 442	18381	15.0	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2445-CC2421	W048481.D	11/12/09	15:14	00:17	Continuing cal 5
OP30617-LBS	W048482.D	11/12/09	15:42	00:45	Blank Spike
OP30617-LB	W048483.D	11/12/09	16:09	01:12	Leachate Blank
ZZZZZZ	W048484.D	11/12/09	16:36	01:39	(unrelated sample)
ZZZZZZ	W048485.D	11/12/09	17:03	02:06	(unrelated sample)
F68599-4	W048486.D	11/12/09	17:30	02:33	(used for QC only; not part of job F69276)
OP30617-MS	W048487.D	11/12/09	17:57	03:00	Matrix Spike
OP30617-MSD	W048488.D	11/12/09	18:25	03:28	Matrix Spike Duplicate
ZZZZZZ	W048489.D	11/12/09	18:51	03:54	(unrelated sample)
ZZZZZZ	W048490.D	11/12/09	19:18	04:21	(unrelated sample)
ZZZZZZ	W048491.D	11/12/09	19:45	04:48	(unrelated sample)
ZZZZZZ	W048492.D	11/12/09	20:13	05:16	(unrelated sample)
ZZZZZZ	W048493.D	11/12/09	20:40	05:43	(unrelated sample)
ZZZZZZ	W048494.D	11/12/09	21:07	06:10	(unrelated sample)
ZZZZZZ	W048495.D	11/12/09	21:34	06:37	(unrelated sample)
ZZZZZZ	W048496.D	11/12/09	22:01	07:04	(unrelated sample)
ZZZZZZ	W048497.D	11/12/09	22:28	07:31	(unrelated sample)
ZZZZZZ	W048498.D	11/12/09	22:55	07:58	(unrelated sample)
F68710-10	W048499.D	11/12/09	23:22	08:25	(used for QC only; not part of job F69276)

Instrument Performance Check (DFTPP)

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2445-DFTPP	Injection Date:	11/12/09
Lab File ID:	W048480.D	Injection Time:	14:57
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP30617-DUP	W048500.D	11/12/09	23:49	08:52	Duplicate
OP30839-MB	W048501.D	11/13/09	00:16	09:19	Method Blank
ZZZZZZ	W048502.D	11/13/09	00:43	09:46	(unrelated sample)
OP30840-MB	W048503.D	11/13/09	01:10	10:13	Method Blank
ZZZZZZ	W048504.D	11/13/09	01:37	10:40	(unrelated sample)
ZZZZZZ	W048505.D	11/13/09	02:04	11:07	(unrelated sample)
ZZZZZZ	W048506.D	11/13/09	02:31	11:34	(unrelated sample)

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2445-CC2421
Lab FileID: W048481.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111209\W048481.D Vial: 2
Acq On : 12 Nov 2009 3:14 pm Operator: rayb
Sample : cc2421-5 Inst : MSBNA01
Misc : op30747,sw2445,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Thu Nov 12 17:05:11 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	83	0.00	6.14
2	S	Nitrobenzene-d5	0.321	0.303	5.6	76	0.00	5.46
3	P	N-nitroso-di-n-propylamin	0.077	0.063	18.2	67	0.00	5.33
4		Naphthalene	1.104	1.034	6.3	80	0.00	6.16
5		2-Methylnaphthalene	0.730	0.704	3.6	82	0.01	6.95
6		1-Methylnaphthalene	0.679	0.643	5.3	80	0.00	7.07
7	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	8.41
8	P	Hexachlorocyclopentadiene	0.238	0.184	22.7#	59	0.00	7.15
9	S	2-Fluorobiphenyl	1.710	1.651	3.5	70	0.00	7.45
10		Acenaphthylene	2.092	1.984	5.2	79	0.00	8.20
11	C	Acenaphthene	1.301	1.240	4.7	80	0.00	8.47
12	P	2,4-Dinitrophenol	0.096	0.090	6.3	62	0.01	8.56
13	P	4-Nitrophenol	0.233	0.227	2.6	79	0.03	8.72
14		Fluorene	1.432	1.372	4.2	82	0.02	9.31
15	I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00	10.91
16		Phenanthrene	1.374	1.273	7.4	81	0.00	10.96
17		Anthracene	1.371	1.281	6.6	81	0.00	11.05
18	C	Fluoranthene	1.401	1.341	4.3	84	-0.05	13.14
19	I	Chrysene-d12	1.000	1.000	0.0	83	0.00	15.83
20		Pyrene	2.366	2.243	5.2	82	-0.03	13.55
21	S	Terphenyl-d14	0.931	0.965	-3.7	85	-0.01	13.95
22		Benzo[a]anthracene	1.900	1.819	4.3	78	0.00	15.82
23		Chrysene	1.877	1.764	6.0	77	0.00	15.88
24	I	Perylene-d12	1.000	1.000	0.0	77	0.00	18.33
25		Benzo[b]fluoranthene	1.744	1.744	0.0	73	0.00	17.72
26		Benzo[k]fluoranthene	1.859	1.847	0.6	76	0.00	17.76
27	C	Benzo[a]pyrene	1.553	1.553	0.0	74	-0.03	18.24
28		Indeno[1,2,3-cd]pyrene	1.309	1.240	5.3	71	-0.03	19.92
29		Dibenz[a,h]anthracene	1.226	1.139	7.1	68	-0.02	19.98
30		Benzo[g,h,i]perylene	1.598	1.371	14.2	65	-0.01	20.28

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W047944.D SIM_PAHA.M Mon Nov 16 16:02:56 2009

7.7.5

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30839-MB	W048416.D	1	11/10/09	RB	11/09/09	OP30839	SW2443

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	75%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30839-MB	W048463.D	1	11/11/09	RB	11/09/09	OP30839	SW2444

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	74%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	97%	39-121%

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30839-MB	W048501.D	1	11/13/09	RB	11/09/09	OP30839	SW2445

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	75%	42-108%
321-60-8	2-Fluorobiphenyl	84%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

GC Surrogate Retention Time Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2090-CC2061	Injection Date:	11/11/09
Lab File ID:	IJ60934.D	Injection Time:	08:15
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30832-BS	IJ60937.D	11/11/09	09:41	5.24
OP30832-MB	IJ60938.D	11/11/09	10:04	5.24
ZZZZZZ	IJ60939.D	11/11/09	10:26	5.24
OP30832-MS	IJ60945.D	11/11/09	12:39	5.24
OP30832-MSD	IJ60946.D	11/11/09	13:01	5.24

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2090-CC2061	Injection Date:	11/11/09
Lab File ID:	IJ60958.D	Injection Time:	17:28
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
F69276-2	IJ60960.D	11/11/09	18:13	5.24
F69276-3	IJ60961.D	11/11/09	18:35	5.24
F69276-4	IJ60962.D	11/11/09	18:57	5.24
F69276-5	IJ60963.D	11/11/09	19:19	5.24
ZZZZZZ	IJ60964.D	11/11/09	19:41	5.24
ZZZZZZ	IJ60965.D	11/11/09	20:03	5.24
ZZZZZZ	IJ60966.D	11/11/09	20:26	5.24
ZZZZZZ	IJ60967.D	11/11/09	20:48	5.24

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	GIJ2091-CC2061	Injection Date:	11/12/09
Lab File ID:	IJ60978.D	Injection Time:	09:48
Instrument ID:	GCIJ	Method:	FLORIDA-PRO

	S1 [a] RT
Check Std	5.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP30832-MB	IJ60980.D	11/12/09	10:38	5.24
F69292-3	IJ60981.D	11/12/09	11:00	5.24
ZZZZZZ	IJ60982.D	11/12/09	11:22	5.24
ZZZZZZ	IJ60983.D	11/12/09	11:45	5.24
OP30864-MB	IJ60984.D	11/12/09	12:07	5.24
F69354-5	IJ60985.D	11/12/09	12:29	5.24
OP30864-MS	IJ60986.D	11/12/09	12:51	5.24
OP30864-MSD	IJ60987.D	11/12/09	13:13	5.24

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICC2061
Lab FileID: IJ59948.D

Response Factor Report FID 1

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Initial Calibration

Calibration Files
255 =IJ59945.D 340 =IJ59946.D 680 =IJ59947.D 1360=IJ59948.D
2040=IJ59949.D 2720=IJ59950.D 3400=IJ59951.D

Compound	255	340	680	1360	2040	2720	3400	Avg	%RSD
1)S O-TERPHENYL	3.043	2.902	2.894	2.835	2.980	2.710	3.087	2.921 E4	4.40
2)H TPH (C8-C40)	2.949	2.866	2.768	2.671	2.804	2.546	2.887	2.784 E4	4.96

(#) = Out of Range

FL_PRO_R.M Thu Oct 01 15:34:00 2009

11.6.1

11

Initial Calibration Verification

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICV2061
Lab FileID: IJ59952.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0930PRO\IJ59952.D Vial: 9
Acq On : 30 Sep 2009 2:37 pm Operator: shannonl
Sample : icv2061-1360 Inst : FID 1
Misc : op30397,gij2061,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL		----------NA----------				
2 H	TPH (C8-C40)	1360.000	1268.691	6.7	97	0.00	1.98-10.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Oct 01 15:34:09 2009

11.6.2

11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2090-CC2061
Lab FileID: IJ60934.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1111PRO\IJ60934.D Vial: 1
Acq On : 11 Nov 2009 8:15 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30832,gij2090,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	39.607	1.0	102	0.00	5.22- 5.26
2 H	TPH (C8-C40)	1360.000	1376.931	-1.2	106	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 12 10:08:16 2009

11.6.3 11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2090-CC2061
Lab FileID: IJ60935.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1111PRO\IJ60935.D Vial: 2
Acq On : 11 Nov 2009 8:38 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op30832,gij2090,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	10.312	-3.1	104	0.00	5.22- 5.26
2 H	TPH (C8-C40)	340.000	358.344	-5.4	102	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Thu Nov 12 10:09:25 2009

11.6.4

11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2090-CC2061
Lab FileID: IJ60947.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1111PRO\IJ60947.D Vial: 14
Acq On : 11 Nov 2009 1:24 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30832,gij2090,1050,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	40.891	-2.2	105	0.00	5.22- 5.26
2 H	TPH (C8-C40)	1360.000	1432.663	-5.3	110	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 12 10:08:16 2009

11.6.5 11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2090-CC2061
Lab FileID: IJ60958.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1111PRO\IJ60958.D Vial: 25
Acq On : 11 Nov 2009 5:28 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30832,gij2090,1050,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	37.652	5.9	97	0.00	5.22- 5.26
2 H	TPH (C8-C40)	1360.000	1317.318	3.1	101	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 12 10:08:16 2009

11.6.6

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2090-CC2061
Lab FileID: IJ60968.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1111PRO\IJ60968.D Vial: 35
Acq On : 11 Nov 2009 9:10 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30832,gij2090,1050,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	37.887	5.3	98	0.00	5.22- 5.26
2 H	TPH (C8-C40)	1360.000	1284.440	5.6	98	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 12 10:08:16 2009

11.6.7 11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2091-CC2061
Lab FileID: IJ60978.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1112PRO\IJ60978.D Vial: 2
Acq On : 12 Nov 2009 9:48 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30832,gij2091,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	41.463	-3.7	107	0.00	5.22- 5.26
2 H	TPH (C8-C40)	1360.000	1432.626	-5.3	110	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 12 15:02:01 2009

11.6.8

11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2091-CC2061
Lab FileID: IJ60979.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1112PRO\IJ60979.D Vial: 3
Acq On : 12 Nov 2009 10:10 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op30832,gij2091,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	10.876	-8.8	109	0.00	5.22- 5.26
2 H	TPH (C8-C40)	340.000	375.016	-10.3	107	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Thu Nov 12 15:02:24 2009

11.6.9 11

Continuing Calibration Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2091-CC2061
Lab FileID: IJ60988.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1112PRO\IJ60988.D Vial: 12
Acq On : 12 Nov 2009 1:35 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op30864,gij2091,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Tue Nov 10 14:24:38 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	41.727	-4.3	108	0.00	5.22- 5.26
2 H	TPH (C8-C40)	1360.000	1426.087	-4.9	109	0.00	1.89-10.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Nov 12 15:02:01 2009

11.6.10 11

Raw Data: IJ60938.D

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30832-MB	IJ60938.D	1	11/11/09	FEA	11/09/09	OP30832	GIJ2090

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	38-122%

Raw Data: IJ60980.D

Method Blank Summary

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30832-MB	IJ60980.D	1	11/12/09	FEA	11/09/09	OP30832	GIJ2091

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69276-2, F69276-3, F69276-4, F69276-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	38-122%

11.1.2 11

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		09:49			10:21			11:03	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	40100	100.3	40000	40700	101.8	40000	41000	102.5
Lead	2000	2070	103.5	2000	2110	105.5	2000	2110	105.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
13

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		11:45			12:17			12:38	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	41300	103.3	40000	41400	103.5	40000	40300	100.8
Lead	2000	2130	106.5	2000	2130	106.5	2000	2080	104.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
13

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		13:20			14:02			14:28	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	40200	100.5	40000	40100	100.3	40000	39800	99.5
Lead	2000	2080	104.0	2000	2070	103.5	2000	2060	103.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
16

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		14:44			15:27			16:08	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	40000	100.0	40000	40100	100.3	40000	39900	99.8
Lead	2000	2070	103.5	2000	2080	104.0	2000	2060	103.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3 13

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		16:50			17:33			18:15	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	40000	100.0	40000	39800	99.5	40000	40300	100.8
Lead	2000	2060	103.0	2000	2060	103.0	2000	2090	104.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		18:57			19:39			20:21	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	39700	99.3	40000	40300	100.8	40000	40800	102.0
Lead	2000	2060	103.0	2000	2080	104.0	2000	2100	105.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
13

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7658 Units: ug/l

Time:		20:47	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	40000	39500	98.8
Lead	2000	2040	102.0
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3
13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7658 Units: ug/l

Time: / Sample ID: / Metal	RL	IDL	09:56 ICB1 raw	final	09:58 ICB2 raw	final	10:25 CCB1 raw	final	11:07 CCB2 raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5								
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	-0.54	<300			-3.4	<300	-2.4	<300
Lead	5.0	2	-0.10	<5.0			0.62	<5.0	0.98	<5.0
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2
13

ACCUTEST. Laboratories
F69276

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7658 Units: ug/l

Time:			11:49		12:22		12:43		13:24	
Sample ID:			CCB3		CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	-1.6	<300	-3.3	<300	-2.4	<300	-7.4	<300
Lead	5.0	2	-0.11	<5.0	0.020	<5.0	3.0	<5.0	2.6	<5.0
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7658 Units: ug/l

Time:			14:06		14:32		14:48		15:31	
Sample ID:			CCB7		CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	-5.1	<300	-3.0	<300	-6.1	<300	0.31	<300
Lead	5.0	2	1.6	<5.0	2.2	<5.0	2.4	<5.0	3.1	<5.0
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2
13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7658 Units: ug/l

Time:			16:13		16:55		17:38		18:20	
Sample ID:			CCB11		CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	-1.4	<300	-0.45	<300	0.53	<300	-0.92	<300
Lead	5.0	2	2.4	<5.0	2.4	<5.0	2.4	<5.0	2.6	<5.0
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2
13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7658 Units: ug/l

Time:			19:01		19:43		20:25		20:51	
Sample ID:			CCB15		CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	-1.5	<300	-4.7	<300	-0.21	<300	0.73	<300
Lead	5.0	2	1.2	<5.0	2.9	<5.0	1.8	<5.0	3.6	<5.0
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2
13

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

QC Batch ID: MP17312
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/10/09 11/10/09

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	11	11				
Antimony	6.0	4.5	4.5				
Arsenic	10	3.6	5.4				
Barium	200	5	5				
Beryllium	4.0	1	1				
Cadmium	5.0	1	1				
Calcium	1000	100	100				
Chromium	10	1.6	2				
Cobalt	50	.83	1				
Copper	25	2.1	5				
Iron	300	23	23	-7.4	<300	5.9	<300
Lead	5.0	2	2	2.9	<5.0	2.0	<5.0
Magnesium	5000	100	100				
Manganese	15	.5	1				
Molybdenum	50	2.8	5				
Nickel	40	2.3	2.3				
Potassium	10000	100	100				
Selenium	10	3.1	3.4				
Silver	10	1.2	1.4				
Sodium	10000	500	500				
Thallium	10	3.4	3.6				
Tin	50	2.8	2.8				
Vanadium	50	.66	.9				
Zinc	20	3.8	7.4				

Associated samples MP17312: F69276-2, F69276-3, F69276-4, F69276-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

13.2.1

Instrument Detection Limits

Job Number: F69276
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Instrument ID: TJATRACE1 Effective Date: 06/11/08

Analyte	IDL ug/l
Aluminum	11
Antimony	4.5
Arsenic	3.6
Barium	5
Beryllium	1
Cadmium	1
Calcium	100
Chromium	1.6
Cobalt	.83
Copper	2.1
Iron	23
Lead	2
Magnesium	100
Manganese	.5
Molybdenum	2.8
Nickel	2.3
Potassium	100
Selenium	3.1
Silver	1.2
Sodium	500
Thallium	3.4
Tin	2.8
Vanadium	.66
Zinc	3.8

The above applies to the following instrument runs:
MA7658

13.3

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7658
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:46	MA7658-HSTD1	1		
09:49	MA7658-ICV1	1		
09:56	MA7658-ICB1	1		
09:58	MA7658-ICB2	1		
10:01	MA7658-CRIA1	1		
10:06	MA7658-CRI1	1		
10:11	MA7658-ICSA1	1		
10:13	MA7658-ICSAB1	1		
10:21	MA7658-CCV1	1		
10:25	MA7658-CCB1	1		
10:29	ZZZZZZ	2		
10:32	ZZZZZZ	4		
10:36	ZZZZZZ	2		
10:39	ZZZZZZ	2		
10:42	ZZZZZZ	2		
10:46	ZZZZZZ	4		
10:49	F69251-1	40		(sample used for QC only; not part of login F69276)
10:53	MP17310-D1	40		
10:56	MP17310-SD1	200		
10:59	MP17310-PS1	40		
11:03	MA7658-CCV2	1		
11:07	MA7658-CCB2	1		
11:11	MP17310-S1	40		
11:14	MP17310-S2	40		
11:18	ZZZZZZ	2		
11:21	ZZZZZZ	400		
11:24	ZZZZZZ	40		
11:28	F69251-1	4		(sample used for QC only; not part of login F69276)
11:31	MP17310-D1	4		
11:35	MP17310-SD1	20		
11:38	MP17310-PS1	4		
11:41	MP17310-S1	4		
11:45	MA7658-CCV3	1		

13.1

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7658
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:49	MA7658-CCB3	1		
11:53	MP17310-S2	4		
11:56	ZZZZZZ	4		
11:59	ZZZZZZ	4		
12:03	ZZZZZZ	5		
12:07	ZZZZZZ	10		
12:11	ZZZZZZ	2		
12:14	ZZZZZZ	2		
12:17	MA7658-CCV4	1		
12:22	MA7658-CCB4	1		
12:38	MA7658-CCV5	1		
12:43	MA7658-CCB5	1		
12:46	MP17312-MB1	1		
12:49	MP17312-B1	1		
13:10	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:20	MA7658-CCV6	1		
13:24	MA7658-CCB6	1		
13:28	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:38	ZZZZZZ	1		
13:41	F69276-2	1		
13:45	F69276-3	1		
13:48	F69276-4	1		
13:52	F69276-5	1		
13:55	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:02	MA7658-CCV7	1		
14:06	MA7658-CCB7	1		
14:10	ZZZZZZ	1		
14:13	ZZZZZZ	1		

13.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7658
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:17	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:24	MP17312-MB2A	1		
14:28	MA7658-CCV8	1		
14:32	MA7658-CCB8	1		
14:44	MA7658-CCV9	1		
14:48	MA7658-CCB9	1		
14:51	F69220-1	1		(sample used for QC only; not part of login F69276)
14:55	MP17312-D1	1		
14:58	MP17312-SD1	5		
15:02	MP17312-PS1	1		
15:05	MP17312-S1	1		
15:09	MP17312-S2	1		
---------->	Last reportable sample/prep for job F69276			
15:13	MP17313-MB1	1		
15:16	MP17313-B1	1		
15:20	F69298-6	1		(sample used for QC only; not part of login F69276)
15:23	MP17313-D1	1		
15:27	MA7658-CCV10	1		
15:31	MA7658-CCB10	1		
15:34	MP17313-SD1	5		
15:38	MP17313-PS1	1		
15:41	MP17313-S1	1		
15:45	MP17313-S2	1		
15:48	ZZZZZZ	1		
15:51	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:58	ZZZZZZ	1		
16:02	ZZZZZZ	1		
16:05	ZZZZZZ	1		
16:08	MA7658-CCV11	1		
16:13	MA7658-CCB11	1		
16:16	ZZZZZZ	1		
16:20	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7658
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:23	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:30	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:50	MA7658-CCV12	1		
16:55	MA7658-CCB12	1		
17:09	MP17316-MB1	1		
17:13	MP17316-B1	1		
17:16	F69338-1	1		(sample used for QC only; not part of login F69276)
17:20	MP17316-D1	1		
17:23	MP17316-SD1	5		
17:26	MP17316-PS1	1		
17:30	MP17316-S1	1		
17:33	MA7658-CCV13	1		
17:38	MA7658-CCB13	1		
17:41	MP17316-S2	1		
17:44	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:55	ZZZZZZ	1		
17:58	ZZZZZZ	1		
18:01	ZZZZZZ	1		
18:05	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:15	MA7658-CCV14	1		
18:20	MA7658-CCB14	1		
18:23	ZZZZZZ	1		
18:33	ZZZZZZ	1		
18:37	ZZZZZZ	1		

13.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7658
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:40	ZZZZZZ	1		
18:43	ZZZZZZ	1		
18:47	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:54	ZZZZZZ	1		
18:57	MA7658-CCV15	1		
19:01	MA7658-CCB15	1		
19:05	MP17317-MB1	1		
19:08	MP17317-B1	1		
19:12	F69338-1A	1		(sample used for QC only; not part of login F69276)
19:15	MP17317-D1	1		
19:19	MP17317-SD1	5		
19:22	MP17317-PS1	1		
19:25	MP17317-S1	1		
19:29	MP17317-S2	1		
19:32	ZZZZZZ	1		
19:36	ZZZZZZ	1		
19:39	MA7658-CCV16	1		
19:43	MA7658-CCB16	1		
19:47	ZZZZZZ	1		
19:50	ZZZZZZ	1		
19:54	ZZZZZZ	1		
19:57	ZZZZZZ	1		
20:00	ZZZZZZ	1		
20:04	ZZZZZZ	1		
20:07	ZZZZZZ	1		
20:11	ZZZZZZ	1		
20:14	ZZZZZZ	1		
20:18	ZZZZZZ	1		
20:21	MA7658-CCV17	1		
20:25	MA7658-CCB17	1		
20:29	ZZZZZZ	1		
20:33	MA7658-CRIA2	1		

13.1

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69276
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR111009.ASC Date Analyzed: 11/10/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7658
Parameters: Fe,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:37	MA7658-CRI2	1		
20:40	MA7658-ICSA2	1		
20:43	MA7658-ICSAB2	1		
20:47	MA7658-CCV18	1		
20:51	MA7658-CCB18	1		

----------> Last reportable CCB for job F69276
Refer to raw data for calibration curve and standards.

13.1
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Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 26, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH/PET**
CTO 0105, NAS KEY WEST
SAMPLE DELIVERY GROUP (SDG) – F69760

SAMPLES: 9/Aqueous/VOC/PAH/PET

KW-TFS-TB-03-1109	KWTFS-SB101-GW-0307
KWTFS-SB108-GW-0307	KWTFS-SB114-GW-0307
KWTFS-SB122-GW-0307	KWTFS-SB129-GW-0307
KWTFS-SB132-GW-0307	KWTFS-SB134-GW-0307
KWTFS-SB147-GW-0307	

6/Solid/VOC/PAH/PET

KW-TFS-TB-04-1104	KWTFS-SB108-SO-0002
KWTFS-SB114-SO-0002	KWTFS-SB129-SO-0002
KWTFS-SB132-SO-0002	KWTFS-SB147-SO-0002

OVERVIEW

The sample set for NAS KEY WEST, CTO 0105, SDG F69760 consists of eight (8) aqueous environmental samples, five (5) solid environmental samples and two (2) trip blanks. All samples were analyzed for Volatile Organic Compounds (VOC), Polycyclic Aromatic Hydrocarbons (PAH) and petroleum range organics (PET). The five (5) solid environmental samples were also analyzed for 1,2-dibromomethane. There were no field duplicate pairs included within this SDG.

The samples were collected on November 9, 20 and 24, 2009 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B for VOC, 8270C by SIM for PAH, 8011M for 1,2-dibromomethane and FL-PRO for PET analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
• Holding times
• Initial/continuing calibrations
* • Laboratory method blank results
* • Detection limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles:

The continuing calibration of instrument GCMSF on December 4, 2009 @ 10:14, acrolein had a percent

difference (%D) greater than the 25% quality control limit and less than 90%. No action was warranted on the nondetected acrolein result in the affected sample KWTFS-SB122-GW-0307.

In the initial calibration of instrument GCMSJ on November 20, 2009, methylene chloride had a percent relative standard deviation (%RSD) greater than the 30% quality control limit. The positive methylene chloride result in the affected sample KWTFS-SB147-GW-0307 was qualified as estimated (J). No action was warranted on the nondetected methylene chloride results in the affected samples KW-TFS-TB-03-1109, KWTFS-SB101-GW-0307, KWTFS-SB108-GW-0307, KWTFS-SB114-GW-0307, KWTFS-SB129-GW-0307, KWTFS-SB132-GW-0307 and KWTFS-SB134-0307.

In the continuing calibration of instrument GCMSJ on December 5, 2009 @ 9:57, acrolein had a %D greater than 50% but less than 90%. No action was warranted on the nondetected acrolein results in the affected samples KW-TFS-TB-03-1109, KWTFS-SB101-GW-0307, KWTFS-SB108-GW-0307, KWTFS-SB114-GW-0307, KWTFS-SB129-GW-0307, KWTFS-SB132-GW-0307 and KWTFS-SB134-0307.

In the continuing calibration of instrument GCMSJ on December 8, 2009 @ 9:27, acrolein, chloromethane and dichlorodifluoromethane had a %D greater than the 25% quality control limit but less than 90%. No action was taken on the nondetected acrolein, chloromethane and dichlorodifluoromethane results in sample KWTFS-SB147-GW-0307.

In the initial calibration of instrument GCMSK on December 1, 2009, methylene chloride had a %RSD greater than the 30% quality control limit. The positive methylene chloride result in sample KW-TFS-TB-04-1104 was qualified as estimated (J). No action was warranted on the nondetected methylene chloride results in the affected samples KWTFS-SB108-SO-0002, KWTFS-SB114-SO-0002, KWTFS-SB129-SO-0002 and KWTFS-SB132-SO-0002.

In the continuing calibration of instrument GCMSK on December 3, 2009 @ 9:15, methylene chloride and acrolein had a %D greater than the 25% quality control limit but less than 50%. The positive methylene chloride result in sample KW-TFS-TB-04-1104 was qualified as (J). No action was taken on the nondetected methylene chloride results in the affected samples KWTFS-SB108-SO-0002, KWTFS-SB114-SO-0002, KWTFS-SB129-SO-0002 and KWTFS-SB132-SO-0002.

The following aqueous samples were not preserved at a pH <2 and analyzed within 7 days of sampling:

KWTFS-SB122-GW-0307	14 days, pH 6
KW-TFS-TB-03-1109	11 days, pH 6
KWTFS-SB108-GW-0307	11 days, pH 6
KWTFS-SB132-GW-0307	11 days, pH 6
KWTFS-SB134-GW-0307	11 days, pH 6
KWTFS-SB147-GW-0307	14 days, pH 6

The positive aromatic volatile detections were qualified as (J) and nondetected aromatics as (UJ).

Sample KW-TFS-TB-04-1104 was analyzed outside of the allotted holding time. The positive detections and nondetects in sample KW-TFS-TB-04-1104 were qualified as (J) and (UJ), respectively.

Notes:

The volatile method blank contained the common laboratory contaminant methylene chloride.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Methylene chloride[1]	10.0	100.0

[1] Analyzed on 12-3-09.

An action level of 10X the maximum concentration of methylene chloride was established in order to evaluate samples for blank contamination. Sample aliquot and dilution factors were taken into consideration when applying the action level. No action was taken on the nondetected methylene chloride result in the affected sample KWTFS-SB122-GW-0307.

The continuing calibration of instrument GCMS-F on December 4, 2009 @ 10:14, trichlorofluoromethane had a %D greater than the 25% quality control limit. No action was taken on the nondetected trichlorofluoromethane result in the affected sample KWTFS-SB122-GW-0307.

In the initial calibration of instrument GCMSK on December 3, 2009 methylene chloride had a %RSD greater than the 30% quality control limit. No action was taken on the affected samples KWTFS-SB108-SO-0002 and KWTFS-SB147-SO-0002. The analysis of sample KWTFS-SB108-SO-0002 was a confirmation run for the internal standards. In the initial analysis of sample KWTFS-SB108-SO-0002, all four internal standards had low percent recoveries. In the second analysis on December 3, 2009 only one internal standard, 1,4-dichlorobenzene-d4, had a low percent recovery. Results were taken from the second analysis for sample KWTFS-SB108-SO-0002. Copies of the internal standard recoveries for both analyses can be found in Appendix C.

Sample KWTFS-SB147-SO-0002 was analyzed as a medium level soil. Elevated detection limits are reported for this sample.

The laboratory had to be contacted regarding sample KWTFS-SB147-GW-0307. The laboratory initially reported a false positive result for acrolein. Upon further review of the spectra and acrolein being a poor responder, the result was determined to be a false positive. The laboratory resubmitted the corrected form 1s to reflect this finding. Copies of the spectra can be found in Appendix C.

Positive results less than the reporting limit (RL) were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Hold time was exceeded for sample KW-TFS-TB-04-1104. Several aqueous samples were not preserved at a proper pH and analyzed within an allotted hold time. Several analytes had initial and continuing calibration %RSD and %D noncompliances resulting in the qualification of data. Acrolein was reported as a false positive in sample KWTFS-SB147-GW-0307.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
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Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01294	NSAMPLE	KWTFS-SB101-GW-0307			KWTFS-SB108-GW-0307			KWTFS-SB114-GW-0307			KWTFS-SB122-GW-0307		
SDG: F69760	LAB_ID	F69760-4			F69760-5			F69760-6			F69760-2		
FRACTION: OV	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/20/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.33	U		0.33	U		0.33	U		0.33	U	
1,1,2,2-TETRACHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,1,2-TRICHLOROETHANE		0.26	U		0.26	U		0.26	U		0.26	U	
1,1-DICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1-DICHLOROETHENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DICHLOROBENZENE		0.2	U		0.2	UJ	M	0.2	U		0.2	UJ	M
1,2-DICHLOROETHANE		0.34	U		0.34	U		0.34	U		0.34	U	
1,2-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,3-DICHLOROBENZENE		0.23	U		0.23	UJ	M	0.23	U		0.23	UJ	M
1,4-DICHLOROBENZENE		0.22	U		0.22	UJ	M	0.22	U		0.22	UJ	M
2-CHLOROETHYL VINYL ETHER		1	U		1	U		1	U		1	U	
ACROLEIN		5	U		5	U		5	U		5	U	
ACRYLONITRILE		2	U		2.1	J	P	2	U		2	U	
BENZENE		0.4	U		0.4	UJ	M	0.4	U		0.4	UJ	M
BROMODICHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
BROMOFORM		0.33	U		0.33	U		0.33	U		0.33	U	
BROMOMETHANE		0.78	U		0.78	U		0.78	U		0.78	U	
CARBON TETRACHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	
CHLOROBENZENE		0.22	U		0.22	UJ	M	0.22	U		0.22	UJ	M
CHLORODIBROMOMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CHLOROETHANE		0.48	U		0.48	U		0.48	U		0.48	U	
CHLOROFORM		0.28	U		0.28	U		0.28	U		0.28	U	
CHLOROMETHANE		0.61	U		0.61	U		0.7	J	P	0.61	U	
CIS-1,2-DICHLOROETHENE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.21	U	
DICHLORODIFLUOROMETHANE		1	U		1	U		1	U		1	U	
ETHYLBENZENE		0.43	U		0.43	UJ	M	0.44	J	P	0.43	UJ	M
METHYL TERT-BUTYL ETHER		0.26	U		0.26	U		0.26	U		0.26	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		0.22	U		0.22	U		0.22	U		0.22	U	
TOLUENE		0.35	U		0.35	UJ	M	0.35	U		0.35	UJ	M
TOTAL XYLENES		1.2	U		1.2	UJ	M	1.2	U		1.2	UJ	M
TRANS-1,2-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
TRANS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.21	U	
TRICHLOROETHENE		0.32	U		0.32	U		0.32	U		0.32	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB129-GW-0307			KWTFS-SB132-GW-0307			KWTFS-SB134-GW-0307			KWTFS-SB147-GW-0307		
SDG: F69760	LAB_ID	F69760-7			F69760-8			F69760-9			F69760-10		
FRACTION: OV	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.33	U		0.33	U		0.33	U		0.66	U	
1,1,2,2-TETRACHLOROETHANE		0.21	U		0.21	U		0.21	U		0.42	U	
1,1,2-TRICHLOROETHANE		0.26	U		0.26	U		0.26	U		0.52	U	
1,1-DICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.48	U	
1,1-DICHLOROETHENE		0.54	U		0.54	U		0.54	U		1.1	U	
1,2-DICHLOROBENZENE		0.2	U		0.2	UJ	M	0.2	UJ	M	0.4	UJ	M
1,2-DICHLOROETHANE		0.34	U		0.34	U		0.34	U		0.68	U	
1,2-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.42	U	
1,3-DICHLOROBENZENE		0.23	U		0.23	UJ	M	0.23	UJ	M	0.46	UJ	M
1,4-DICHLOROBENZENE		0.22	U		0.22	UJ	M	0.22	UJ	M	0.44	U	
2-CHLOROETHYL VINYL ETHER		1	U		1	U		1	U		2	U	
ACROLEIN		5	U		5	U		5	U		50	U	
ACRYLONITRILE		2	U		2	U		2	U		4	U	
BENZENE		0.4	U		0.4	UJ	M	0.4	UJ	M	10.7	J	M
BROMODICHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.4	U	
BROMOFORM		0.33	U		0.33	U		0.33	U		0.66	U	
BROMOMETHANE		0.78	U		0.78	U		0.78	U		1.6	U	
CARBON TETRACHLORIDE		0.22	U		0.22	U		0.22	U		0.44	U	
CHLOROBENZENE		0.22	U		0.22	UJ	M	0.22	UJ	M	0.44	UJ	M
CHLORODIBROMOMETHANE		0.2	U		0.2	U		0.2	U		0.4	U	
CHLOROETHANE		0.48	U		0.48	U		0.48	U		0.96	U	
CHLOROFORM		0.28	U		0.28	U		0.28	U		3.1		
CHLOROMETHANE		0.86	J	P	0.61	U		0.61	U		1.2	U	
CIS-1,2-DICHLOROETHENE		0.2	U		0.2	U		0.2	U		0.4	U	
CIS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.42	U	
DICHLORODIFLUOROMETHANE		1	U		1	U		1	U		2	U	
ETHYLBENZENE		3.5			2	J	M	3.7	J	M	357	J	M
METHYL TERT-BUTYL ETHER		0.26	U		0.26	U		0.26	U		0.52	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		2.1	J	AC
TETRACHLOROETHENE		0.22	U		0.22	U		0.22	U		0.44	U	
TOLUENE		0.35	U		0.35	UJ	M	0.35	UJ	M	8.7	J	M
TOTAL XYLENES		1.4	J	P	1.2	UJ	M	2	J	MP	172	J	M
TRANS-1,2-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.9	U	
TRANS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U		0.42	U	
TRICHLOROETHENE		0.32	U		0.32	U		0.32	U		0.64	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		1	U	

PROJ_NO: 01294	NSAMPLE	KW-TFS-TB-03-1109
SDG: F69760	LAB_ID	F69760-3
FRACTION: OV	SAMP_DATE	11/24/2009
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.33	U	
1,1,2,2-TETRACHLOROETHANE	0.21	U	
1,1,2-TRICHLOROETHANE	0.26	U	
1,1-DICHLOROETHANE	0.24	U	
1,1-DICHLOROETHENE	0.54	U	
1,2-DICHLOROBENZENE	0.2	UJ	M
1,2-DICHLOROETHANE	0.34	U	
1,2-DICHLOROPROPANE	0.21	U	
1,3-DICHLOROBENZENE	0.23	UJ	M
1,4-DICHLOROBENZENE	0.22	UJ	M
2-CHLOROETHYL VINYL ETHER	1	U	
ACROLEIN	5	U	
ACRYLONITRILE	2	U	
BENZENE	0.4	UJ	M
BROMODICHLOROMETHANE	0.2	U	
BROMOFORM	0.33	U	
BROMOMETHANE	0.78	U	
CARBON TETRACHLORIDE	0.22	U	
CHLOROBENZENE	0.22	UJ	M
CHLORODIBROMOMETHANE	0.2	U	
CHLOROETHANE	0.48	U	
CHLOROFORM	0.28	U	
CHLOROMETHANE	0.61	U	
CIS-1,2-DICHLOROETHENE	0.2	U	
CIS-1,3-DICHLOROPROPENE	0.21	U	
DICHLORODIFLUOROMETHANE	1	U	
ETHYLBENZENE	0.43	UJ	M
METHYL TERT-BUTYL ETHER	0.26	U	
METHYLENE CHLORIDE	1	U	
TETRACHLOROETHENE	0.22	U	
TOLUENE	0.35	UJ	M
TOTAL XYLENES	1.2	UJ	M
TRANS-1,2-DICHLOROETHENE	0.45	U	
TRANS-1,3-DICHLOROPROPENE	0.21	U	
TRICHLOROETHENE	0.32	U	
TRICHLOROFLUOROMETHANE	0.5	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB101-GW-0307			KWTFS-SB108-GW-0307			KWTFS-SB114-GW-0307			KWTFS-SB122-GW-0307		
SDG: F69760	LAB_ID	F69760-4			F69760-5			F69760-6			F69760-2		
FRACTION: OV	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/20/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL CHLORIDE		0.3	U		0.3	U		0.3	U		0.3	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB129-GW-0307			KWTFS-SB132-GW-0307			KWTFS-SB134-GW-0307			KWTFS-SB147-GW-0307		
SDG: F69760	LAB_ID	F69760-7			F69760-8			F69760-9			F69760-10		
FRACTION: OV	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL CHLORIDE		0.3	U		0.3	U		0.3	U		0.6	U	

PROJ_NO: 01294	NSAMPLE	KW-TFS-TB-03-1109		
SDG: F69760	LAB_ID	F69760-3		
FRACTION: OV	SAMP_DATE	11/24/2009		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
VINYL CHLORIDE		0.3	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB108-SO-0002			KWTFS-SB114-SO-0002			KWTFS-SB129-SO-0002			KWTFS-SB132-SO-0002		
SDG: F69760	LAB_ID	F69760-11			F69760-12			F69760-13			F69760-14		
FRACTION: OV	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	76.4			86.2			73.4			80.1		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2.6	U		1.3	U		1.5	U		1.3	U	
1,1,2,2-TETRACHLOROETHANE		1.9	U		2.2	U		2.5	U		2.2	U	
1,1,2-TRICHLOROETHANE		1.9	U		1.2	U		1.4	U		1.2	U	
1,1-DICHLOROETHANE		2.1	U		2.4	U		2.8	U		2.4	U	
1,1-DICHLOROETHENE		3.3	U		1.6	U		1.8	U		1.6	U	
1,2-DIBROMOETHANE		0.091	U		0.081	U		0.094	U		0.086	U	
1,2-DICHLOROBENZENE		1.6	U		1.2	U		1.4	U		1.2	U	
1,2-DICHLOROETHANE		1.7	U		1.3	U		1.5	U		1.3	U	
1,2-DICHLOROPROPANE		1.4	U		1.7	U		2	U		1.7	U	
1,3-DICHLOROBENZENE		1.6	U		1.2	U		1.4	U		1.2	U	
1,4-DICHLOROBENZENE		2.1	U		1.2	U		1.4	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		14	U		12	U		14	U		12	U	
ACROLEIN		14	U		12	U		14	U		12	U	
ACRYLONITRILE		50	U		8.4	U		9.7	U		8.3	U	
BENZENE		1.4	U		1.2	U		1.4	U		1.2	U	
BROMODICHLOROMETHANE		1.4	U		1.5	U		1.7	U		1.4	U	
BROMOFORM		2.6	U		1.8	U		2.1	U		1.8	U	
BROMOMETHANE		2.9	U		2.7	U		3.1	U		2.7	U	
CARBON TETRACHLORIDE		2.3	U		1.7	U		2	U		1.7	U	
CHLOROBENZENE		30	U		1.2	U		1.4	U		1.2	U	
CHLORODIBROMOMETHANE		2.4	U		1.2	U		1.4	U		1.2	U	
CHLOROETHANE		2.9	U		2.4	U		2.8	U		2.4	U	
CHLOROFORM		1.4	U		2.1	U		2.4	U		2	U	
CHLOROMETHANE		3.6	U		2.9	U		3.4	U		2.9	U	
CIS-1,2-DICHLOROETHENE		1.4	U		2	U		2.2	U		1.9	U	
CIS-1,3-DICHLOROPROPENE		1.4	U		1.6	U		1.8	U		1.6	U	
DICHLORODIFLUOROMETHANE		3	U		2.4	U		2.8	U		2.4	U	
ETHYLBENZENE		13.7	U		1.2	U		1.4	U		1.2	U	
METHYL TERT-BUTYL ETHER		3.3	U		1.8	U		2.1	U		1.8	U	
METHYLENE CHLORIDE		7.2	U		6.1	U		7	U		6	U	
TETRACHLOROETHENE		2.6	U		1.5	U		1.7	U		1.4	U	
TOLUENE		1.7	U		1.2	U		1.4	U		1.2	U	
TOTAL XYLENES		3.2	U		3.5	U		4.1	U		3.5	U	
TRANS-1,2-DICHLOROETHENE		2.7	U		1.5	U		1.7	U		1.4	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U		1.2	U		1.4	U		1.2	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB147-SO-0002			KW-TFS-TB-04-1104		
SDG: F69760	LAB_ID	F69760-15			F69760-1		
FRACTION: OV	SAMP_DATE	11/24/2009			11/9/2009		
MEDIA: SOIL	QC_TYPE	NM			NM		
	UNITS	UG/KG			UG/KG		
	PCT_SOLIDS	73.6					
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		190	U		1.1	UJ	H
1,1,2,2-TETRACHLOROETHANE		310	U		1.8	UJ	H
1,1,2-TRICHLOROETHANE		170	U		1	UJ	H
1,1-DICHLOROETHANE		350	U		2	UJ	H
1,1-DICHLOROETHENE		220	U		1.3	UJ	H
1,2-DIBROMOETHANE		0.093	U				
1,2-DICHLOROBENZENE		170	U		1	UJ	H
1,2-DICHLOROETHANE		190	U		1.1	UJ	H
1,2-DICHLOROPROPANE		240	U		1.4	UJ	H
1,3-DICHLOROBENZENE		170	U		1	UJ	H
1,4-DICHLOROBENZENE		170	U		1	UJ	H
2-CHLOROETHYL VINYL ETHER		1700	U		10	UJ	H
ACROLEIN		1700	U		9.8	UJ	H
ACRYLONITRILE		1200	U		6.9	UJ	H
BENZENE		170	U		1	UJ	H
BROMODICHLOROMETHANE		210	U		1.2	UJ	H
BROMOFORM		260	U		1.5	UJ	H
BROMOMETHANE		380	U		2.2	UJ	H
CARBON TETRACHLORIDE		240	U		1.4	UJ	H
CHLOROBENZENE		170	U		1	UJ	H
CHLORODIBROMOMETHANE		170	U		1	UJ	H
CHLOROETHANE		350	U		2	UJ	H
CHLOROFORM		290	U		1.7	UJ	H
CHLOROMETHANE		410	U		2.4	UJ	H
CIS-1,2-DICHLOROETHENE		280	U		1.6	UJ	H
CIS-1,3-DICHLOROPROPENE		220	U		1.3	UJ	H
DICHLORODIFLUOROMETHANE		350	U		2	UJ	H
ETHYLBENZENE		16500			1	UJ	H
METHYL TERT-BUTYL ETHER		260	U		1.5	UJ	H
METHYLENE CHLORIDE		860	U		7.1	J	HCP
TETRACHLOROETHENE		210	U		1.2	UJ	H
TOLUENE		170	U		1	UJ	H
TOTAL XYLENES		6280			2.9	UJ	H
TRANS-1,2-DICHLOROETHENE		210	U		1.2	UJ	H
TRANS-1,3-DICHLOROPROPENE		170	U		1	UJ	H

PROJ_NO: 01294	NSAMPLE	KWTFS-SB108-SO-0002			KWTFS-SB114-SO-0002			KWTFS-SB129-SO-0002			KWTFS-SB132-SO-0002		
SDG: F69760	LAB_ID	F69760-11			F69760-12			F69760-13			F69760-14		
FRACTION: OV	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	76.4			86.2			73.4			80.1		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROETHENE		2.3	U		1.5	U		1.7	U		1.4	U	
TRICHLOROFLUOROMETHANE		3.7	U		2.4	U		2.8	U		2.4	U	
VINYL CHLORIDE		2.9	U		2.4	U		2.8	U		2.4	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB147-SO-0002			KW-TFS-TB-04-1104		
SDG: F69760	LAB_ID	F69760-15			F69760-1		
FRACTION: OV	SAMP_DATE	11/24/2009			11/9/2009		
MEDIA: SOIL	QC_TYPE	NM			NM		
	UNITS	UG/KG			UG/KG		
	PCT_SOLIDS	73.6					
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROETHENE		210	U		1.2	UJ	H
TRICHLOROFLUOROMETHANE		350	U		2	UJ	H
VINYL CHLORIDE		350	U		2	UJ	H

PROJ_NO: 01294	NSAMPLE	KWTFS-SB101-GW-0307			KWTFS-SB108-GW-0307			KWTFS-SB114-GW-0307			KWTFS-SB122-GW-0307		
SDG: F69760	LAB_ID	F69760-4			F69760-5			F69760-6			F69760-2		
FRACTION: PAH	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/20/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.24	U		55.7			0.57	J	P	0.25	U	
2-METHYLNAPHTHALENE		0.24	U		54.9			0.48	U		0.25	U	
ACENAPHTHENE		0.48	U		0.49	U		0.96	U		0.5	U	
ACENAPHTHYLENE		0.48	U		0.49	U		0.96	U		0.5	U	
ANTHRACENE		0.48	U		0.49	U		0.96	U		0.5	U	
BENZO(A)ANTHRACENE		0.048	U		0.049	U		0.096	U		0.05	U	
BENZO(A)PYRENE		0.048	U		0.049	U		0.096	U		0.05	U	
BENZO(B)FLUORANTHENE		0.048	U		0.049	U		0.096	U		0.05	U	
BENZO(G,H,I)PERYLENE		0.048	U		0.049	U		0.096	U		0.05	U	
BENZO(K)FLUORANTHENE		0.048	U		0.049	U		0.096	U		0.05	U	
CHRYSENE		0.096	U		0.097	U		0.19	U		0.1	U	
DIBENZO(A,H)ANTHRACENE		0.048	U		0.049	U		0.096	U		0.05	U	
FLUORANTHENE		0.24	U		0.24	U		0.48	U		0.25	U	
FLUORENE		0.48	U		0.7	J	P	0.96	U		0.5	U	
INDENO(1,2,3-CD)PYRENE		0.048	U		0.049	U		0.096	U		0.05	U	
NAPHTHALENE		0.24	U		38.6			0.48	U		0.25	U	
PHENANTHRENE		0.24	U		0.24	U		0.48	U		0.25	U	
PYRENE		0.24	U		0.24	U		0.48	U		0.25	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB129-GW-0307			KWTFS-SB132-GW-0307			KWTFS-SB134-GW-0307			KWTFS-SB147-GW-0307		
SDG: F69760	LAB_ID	F69760-7			F69760-8			F69760-9			F69760-10		
FRACTION: PAH	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.24	U		0.24	U		0.34	J	P	0.49	J	P
2-METHYLNAPHTHALENE		0.24	U		0.24	U		0.3	J	P	0.49	J	P
ACENAPHTHENE		0.49	U		0.48	U		0.55	J	P	0.48	U	
ACENAPHTHYLENE		0.49	U		0.48	U		0.49	U		0.48	U	
ANTHRACENE		0.49	U		0.48	U		0.49	U		0.48	U	
BENZO(A)ANTHRACENE		0.049	U		0.048	U		0.065	J	P	0.048	U	
BENZO(A)PYRENE		0.049	U		0.048	U		0.049	U		0.048	U	
BENZO(B)FLUORANTHENE		0.049	U		0.048	U		0.049	U		0.048	U	
BENZO(G,H,I)PERYLENE		0.049	U		0.048	U		0.049	U		0.048	U	
BENZO(K)FLUORANTHENE		0.049	U		0.048	U		0.049	U		0.048	U	
CHRYSENE		0.097	U		0.096	U		0.097	U		0.096	U	
DIBENZO(A,H)ANTHRACENE		0.049	U		0.048	U		0.049	U		0.048	U	
FLUORANTHENE		0.24	U		0.24	U		0.52	J	P	0.24	U	
FLUORENE		0.49	U		0.48	U		0.49	U		0.48	U	
INDENO(1,2,3-CD)PYRENE		0.049	U		0.048	U		0.049	U		0.048	U	
NAPHTHALENE		0.24	U		0.24	U		0.42	J	P	3.3		
PHENANTHRENE		0.24	U		0.24	U		0.24	U		0.29	J	P
PYRENE		0.24	U		0.24	U		0.37	J	P	0.24	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB108-SO-0002			KWTFS-SB114-SO-0002			KWTFS-SB129-SO-0002			KWTFS-SB132-SO-0002		
SDG: F69760	LAB_ID	F69760-11			F69760-12			F69760-13			F69760-14		
FRACTION: PAH	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	76.4			86.2			73.4			80.1		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		5610			37	U		45	U		41	U	
2-METHYLNAPHTHALENE		5380			37	U		45	U		41	U	
ACENAPHTHENE		210	U		74	U		91	U		82	U	
ACENAPHTHYLENE		210	U		74	U		91	U		82	U	
ANTHRACENE		110	U		106	J	P	45	U		41	U	
BENZO(A)ANTHRACENE		42	U		858			18	U		67.8		
BENZO(A)PYRENE		42	U		1240			18	U		79.3		
BENZO(B)FLUORANTHENE		42	U		1910			18	U		143		
BENZO(G,H,I)PERYLENE		42	U		1080			18	U		66.3		
BENZO(K)FLUORANTHENE		42	U		659			18	U		51		
CHRYSENE		42	U		1350			18	U		94.1		
DIBENZO(A,H)ANTHRACENE		42	U		211			18	U		16.6	J	P
FLUORANTHENE		110	U		1920			45	U		174	J	P
FLUORENE		210	U		74	U		91	U		82	U	
INDENO(1,2,3-CD)PYRENE		42	U		1180			18	U		74		
NAPHTHALENE		1480			37	U		45	U		41	U	
PHENANTHRENE		110	U		735			45	U		81.6	J	P
PYRENE		110	U		1670			45	U		152	J	P

PROJ_NO: 01294	NSAMPLE	KWTFS-SB147-SO-0002
SDG: F69760	LAB_ID	F69760-15
FRACTION: PAH	SAMP_DATE	11/24/2009
MEDIA: SOIL	QC_TYPE	NM
	UNITS	UG/KG
	PCT_SOLIDS	73.6
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE	44	U	
2-METHYLNAPHTHALENE	44	U	
ACENAPHTHENE	89	U	
ACENAPHTHYLENE	89	U	
ANTHRACENE	44	U	
BENZO(A)ANTHRACENE	18	U	
BENZO(A)PYRENE	18	U	
BENZO(B)FLUORANTHENE	18	U	
BENZO(G,H,I)PERYLENE	18	U	
BENZO(K)FLUORANTHENE	18	U	
CHRYSENE	18	U	
DIBENZO(A,H)ANTHRACENE	18	U	
FLUORANTHENE	44	U	
FLUORENE	89	U	
INDENO(1,2,3-CD)PYRENE	18	U	
NAPHTHALENE	44	U	
PHENANTHRENE	44	U	
PYRENE	44	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB101-GW-0307			KWTFS-SB108-GW-0307			KWTFS-SB114-GW-0307			KWTFS-SB122-GW-0307		
SDG: F69760	LAB_ID	F69760-4			F69760-5			F69760-6			F69760-2		
FRACTION: PET	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/20/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		0.16	U		4.13			16.1			0.902		

PROJ_NO: 01294	NSAMPLE	KWTFS-SB129-GW-0307			KWTFS-SB132-GW-0307			KWTFS-SB134-GW-0307			KWTFS-SB147-GW-0307		
SDG: F69760	LAB_ID	F69760-7			F69760-8			F69760-9			F69760-10		
FRACTION: PET	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		0.16	U		0.185	J	P	0.348			1.69		

PROJ_NO: 01294	NSAMPLE	KWTFS-SB108-SO-0002			KWTFS-SB114-SO-0002			KWTFS-SB129-SO-0002			KWTFS-SB132-SO-0002		
SDG: F69760	LAB_ID	F69760-11			F69760-12			F69760-13			F69760-14		
FRACTION: PET	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	76.4			86.2			73.4			80.1		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		1570			79.6			7.3	U		43.2		

PROJ_NO: 01294	NSAMPLE	KWTFS-SB147-SO-0002		
SDG: F69760	LAB_ID	F69760-15		
FRACTION: PET	SAMP_DATE	11/24/2009		
MEDIA: SOIL	QC_TYPE	NM		
	UNITS	MG/KG		
	PCT_SOLIDS	73.6		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TPH (C08-C40)		15.9		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	KW-TFS-TB-03-1109		
Lab Sample ID:	F69760-3	Date Sampled:	11/24/09
Matrix:	AQ - Trip Blank Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J051905.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KW-TFS-TB-03-1109		
Lab Sample ID:	F69760-3	Date Sampled:	11/24/09
Matrix:	AQ - Trip Blank Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB101-GW-0307		
Lab Sample ID:	F69760-4	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051906.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB101-GW-0307		
Lab Sample ID:	F69760-4	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-GW-0307		
Lab Sample ID:	F69760-5	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J051907.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.1	10	2.0	ug/l	I
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB108-GW-0307		
Lab Sample ID:	F69760-5	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	KWTFS-SB114-GW-0307		
Lab Sample ID:	F69760-6	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051908.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.44	1.0	0.43	ug/l	I
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.70	2.0	0.61	ug/l	I
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB114-GW-0307		
Lab Sample ID:	F69760-6	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB122-GW-0307		
Lab Sample ID:	F69760-2	Date Sampled:	11/20/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F039335.D	1	12/04/09	LD	n/a	n/a	VF1079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB122-GW-0307		
Lab Sample ID:	F69760-2	Date Sampled:	11/20/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	118%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Sample was treated with anti-foaming agent.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-GW-0307		
Lab Sample ID:	F69760-7	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J051909.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	3.5	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.86	2.0	0.61	ug/l	I
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB129-GW-0307		
Lab Sample ID:	F69760-7	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.4	3.0	1.2	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB132-GW-0307		
Lab Sample ID:	F69760-8	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J051910.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	2.0	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB132-GW-0307		
Lab Sample ID:	F69760-8	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB134-GW-0307		
Lab Sample ID:	F69760-9	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J051911.D	1	12/05/09	KW	n/a	n/a	VJ3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	3.7	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB134-GW-0307		
Lab Sample ID:	F69760-9	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	2.0	3.0	1.2	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-GW-0307		
Lab Sample ID:	F69760-10	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J051956.D	2	12/08/09	KW	n/a	n/a	VJ3039
Run #2 [a]	J051912.D	10	12/05/09	KW	n/a	n/a	VJ3037

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein [b]	200 U [c]	200	200	ug/l	
107-13-1	Acrylonitrile	4.0 U	20	4.0	ug/l	
71-43-2	Benzene	10.7	2.0	0.80	ug/l	
75-27-4	Bromodichloromethane	0.40 U	2.0	0.40	ug/l	
75-25-2	Bromoform	0.66 U	2.0	0.66	ug/l	
108-90-7	Chlorobenzene	0.44 U	2.0	0.44	ug/l	
75-00-3	Chloroethane	0.96 U	4.0	0.96	ug/l	
67-66-3	Chloroform	3.1	2.0	0.56	ug/l	
110-75-8	2-Chloroethyl vinyl ether	2.0 U	10	2.0	ug/l	
56-23-5	Carbon tetrachloride	0.44 U	2.0	0.44	ug/l	
75-34-3	1,1-Dichloroethane	0.48 U	2.0	0.48	ug/l	
75-35-4	1,1-Dichloroethylene	1.1 U	2.0	1.1	ug/l	
107-06-2	1,2-Dichloroethane	0.68 U	2.0	0.68	ug/l	
78-87-5	1,2-Dichloropropane	0.42 U	2.0	0.42	ug/l	
124-48-1	Dibromochloromethane	0.40 U	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	2.0 U	4.0	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.40 U	2.0	0.40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	
541-73-1	m-Dichlorobenzene	0.46 U	2.0	0.46	ug/l	
95-50-1	o-Dichlorobenzene	0.40 U	2.0	0.40	ug/l	
106-46-7	p-Dichlorobenzene	0.44 U	2.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.90 U	2.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	
100-41-4	Ethylbenzene	357 [c]	10	4.3	ug/l	
74-83-9	Methyl bromide	1.6 U	4.0	1.6	ug/l	
74-87-3	Methyl chloride	1.2 U	4.0	1.2	ug/l	
75-09-2	Methylene chloride [d]	2.1	10	2.0	ug/l	I
1634-04-4	Methyl Tert Butyl Ether	0.52 U	2.0	0.52	ug/l	
71-55-6	1,1,1-Trichloroethane	0.66 U	2.0	0.66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.42 U	2.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	0.52 U	2.0	0.52	ug/l	
127-18-4	Tetrachloroethylene	0.44 U	2.0	0.44	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB147-GW-0307		
Lab Sample ID:	F69760-10	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	8.7	2.0	0.70	ug/l	
79-01-6	Trichloroethylene	0.64 U	2.0	0.64	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	0.60 U	2.0	0.60	ug/l	
1330-20-7	Xylene (total)	172	6.0	2.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	91%	95%	76-127%
2037-26-5	Toluene-D8	97%	96%	86-112%
460-00-4	4-Bromofluorobenzene	103%	98%	84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(b) Elevated reporting limit due to coeluting non-target compounds.
(c) Result is from Run# 2
(d) Suspected laboratory contaminant.

Accutest Laboratories

Report of Analysis

Client Sample ID:	KW-TFS-TB-04-1104		
Lab Sample ID:	F69760-1	Date Sampled:	11/09/09
Matrix:	SO - Trip Blank Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K042909.D	1	12/02/09	LD	n/a	n/a	VK1868
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	9.8 U	25	9.8	ug/kg	
107-13-1	Acrylonitrile	6.9 U	25	6.9	ug/kg	
71-43-2	Benzene	1.0 U	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.2 U	5.0	1.2	ug/kg	
75-25-2	Bromoform	1.5 U	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	1.0 U	5.0	1.0	ug/kg	
75-00-3	Chloroethane	2.0 U	5.0	2.0	ug/kg	
67-66-3	Chloroform	1.7 U	5.0	1.7	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	10 U	25	10	ug/kg	
56-23-5	Carbon tetrachloride	1.4 U	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	2.0 U	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	1.3 U	5.0	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.1 U	5.0	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	2.0 U	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.3 U	5.0	1.3	ug/kg	
541-73-1	m-Dichlorobenzene	1.0 U	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	1.0 U	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	1.0 U	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.2 U	5.0	1.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/kg	
74-83-9	Methyl bromide	2.2 U	5.0	2.2	ug/kg	
74-87-3	Methyl chloride	2.4 U	5.0	2.4	ug/kg	
75-09-2	Methylene chloride [b]	7.1	10	5.0	ug/kg	I
1634-04-4	Methyl Tert Butyl Ether	1.5 U	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.1 U	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.8 U	5.0	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.0 U	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	1.2 U	5.0	1.2	ug/kg	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KW-TFS-TB-04-1104		
Lab Sample ID:	F69760-1	Date Sampled:	11/09/09
Matrix:	SO - Trip Blank Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.0 U	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	1.2 U	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	2.0 U	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	2.0 U	5.0	2.0	ug/kg	
1330-20-7	Xylene (total)	2.9 U	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	100%		59-148%
17060-07-0	1,2-Dichloroethane-D4	102%		77-123%

(a) Sample received outside the holding time.
(b) CCV outside of control limits; results may be biased low; suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K042948.D	1	12/03/09	LD	n/a	n/a	VK1869
Run #2							

	Initial Weight
Run #1	4.57 g
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	14 U	36	14	ug/kg	
107-13-1	Acrylonitrile [a]	50 U	50	50	ug/kg	
71-43-2	Benzene	1.4 U	7.2	1.4	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	7.2	1.4	ug/kg	
75-25-2	Bromoform	2.6 U	7.2	2.6	ug/kg	
108-90-7	Chlorobenzene [a]	30 U	30	30	ug/kg	
75-00-3	Chloroethane	2.9 U	7.2	2.9	ug/kg	
67-66-3	Chloroform	1.4 U	7.2	1.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	14 U	36	14	ug/kg	
56-23-5	Carbon tetrachloride	2.3 U	7.2	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	2.1 U	7.2	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	3.3 U	7.2	3.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.7 U	7.2	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	7.2	1.4	ug/kg	
124-48-1	Dibromochloromethane	2.4 U	7.2	2.4	ug/kg	
75-71-8	Dichlorodifluoromethane	3.0 U	7.2	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	7.2	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	7.2	1.4	ug/kg	
541-73-1	m-Dichlorobenzene	1.7 U	7.2	1.7	ug/kg	
95-50-1	o-Dichlorobenzene	1.6 U	7.2	1.6	ug/kg	
106-46-7	p-Dichlorobenzene	2.1 U	7.2	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	2.7 U	7.2	2.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	7.2	1.6	ug/kg	
100-41-4	Ethylbenzene	13.7	7.2	1.6	ug/kg	
74-83-9	Methyl bromide	2.9 U	7.2	2.9	ug/kg	
74-87-3	Methyl chloride	3.6 U	7.2	3.6	ug/kg	
75-09-2	Methylene chloride	7.2 U	14	7.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	3.3 U	7.2	3.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	2.6 U	7.2	2.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.9 U	7.2	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.9 U	7.2	1.9	ug/kg	
127-18-4	Tetrachloroethylene	2.6 U	7.2	2.6	ug/kg	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.7 U	7.2	1.7	ug/kg	
79-01-6	Trichloroethylene	2.3 U	7.2	2.3	ug/kg	
75-69-4	Trichlorofluoromethane	3.7 U	7.2	3.7	ug/kg	
75-01-4	Vinyl chloride	2.9 U	7.2	2.9	ug/kg	
1330-20-7	Xylene (total)	3.2 U	21	3.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		80-121%
2037-26-5	Toluene-D8	125%		71-130%
460-00-4	4-Bromofluorobenzene	90%		59-148%
17060-07-0	1,2-Dichloroethane-D4	108%		77-123%

(a) Elevated reporting limit due to coeluting non-target compounds.

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-SO-0002		
Lab Sample ID:	F69760-12	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	86.2
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K042911.D	1	12/02/09	LD	n/a	n/a	VK1868
Run #2							

	Initial Weight
Run #1	4.75 g
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	12 U	31	12	ug/kg	
107-13-1	Acrylonitrile	8.4 U	31	8.4	ug/kg	
71-43-2	Benzene	1.2 U	6.1	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.5 U	6.1	1.5	ug/kg	
75-25-2	Bromoform	1.8 U	6.1	1.8	ug/kg	
108-90-7	Chlorobenzene	1.2 U	6.1	1.2	ug/kg	
75-00-3	Chloroethane	2.4 U	6.1	2.4	ug/kg	
67-66-3	Chloroform	2.1 U	6.1	2.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	12 U	31	12	ug/kg	
56-23-5	Carbon tetrachloride	1.7 U	6.1	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	2.4 U	6.1	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	6.1	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	1.3 U	6.1	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	1.7 U	6.1	1.7	ug/kg	
124-48-1	Dibromochloromethane	1.2 U	6.1	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	2.4 U	6.1	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.0 U	6.1	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	6.1	1.6	ug/kg	
541-73-1	m-Dichlorobenzene	1.2 U	6.1	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	1.2 U	6.1	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	1.2 U	6.1	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	6.1	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.2 U	6.1	1.2	ug/kg	
100-41-4	Ethylbenzene	1.2 U	6.1	1.2	ug/kg	
74-83-9	Methyl bromide	2.7 U	6.1	2.7	ug/kg	
74-87-3	Methyl chloride	2.9 U	6.1	2.9	ug/kg	
75-09-2	Methylene chloride	6.1 U	12	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8 U	6.1	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.3 U	6.1	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	2.2 U	6.1	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.2 U	6.1	1.2	ug/kg	
127-18-4	Tetrachloroethylene	1.5 U	6.1	1.5	ug/kg	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB114-SO-0002		
Lab Sample ID:	F69760-12	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	86.2
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.2 U	6.1	1.2	ug/kg	
79-01-6	Trichloroethylene	1.5 U	6.1	1.5	ug/kg	
75-69-4	Trichlorofluoromethane	2.4 U	6.1	2.4	ug/kg	
75-01-4	Vinyl chloride	2.4 U	6.1	2.4	ug/kg	
1330-20-7	Xylene (total)	3.5 U	18	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	106%		59-148%
17060-07-0	1,2-Dichloroethane-D4	100%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	KWTFS-SB129-SO-0002		
Lab Sample ID:	F69760-13	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	73.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K042912.D	1	12/02/09	LD	n/a	n/a	VK1868
Run #2							

	Initial Weight
Run #1	4.87 g
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	14 U	35	14	ug/kg	
107-13-1	Acrylonitrile	9.7 U	35	9.7	ug/kg	
71-43-2	Benzene	1.4 U	7.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	1.7 U	7.0	1.7	ug/kg	
75-25-2	Bromoform	2.1 U	7.0	2.1	ug/kg	
108-90-7	Chlorobenzene	1.4 U	7.0	1.4	ug/kg	
75-00-3	Chloroethane	2.8 U	7.0	2.8	ug/kg	
67-66-3	Chloroform	2.4 U	7.0	2.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	14 U	35	14	ug/kg	
56-23-5	Carbon tetrachloride	2.0 U	7.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	2.8 U	7.0	2.8	ug/kg	
75-35-4	1,1-Dichloroethylene	1.8 U	7.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	1.5 U	7.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	2.0 U	7.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	7.0	1.4	ug/kg	
75-71-8	Dichlorodifluoromethane	2.8 U	7.0	2.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.2 U	7.0	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.8 U	7.0	1.8	ug/kg	
541-73-1	m-Dichlorobenzene	1.4 U	7.0	1.4	ug/kg	
95-50-1	o-Dichlorobenzene	1.4 U	7.0	1.4	ug/kg	
106-46-7	p-Dichlorobenzene	1.4 U	7.0	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.7 U	7.0	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	7.0	1.4	ug/kg	
100-41-4	Ethylbenzene	1.4 U	7.0	1.4	ug/kg	
74-83-9	Methyl bromide	3.1 U	7.0	3.1	ug/kg	
74-87-3	Methyl chloride	3.4 U	7.0	3.4	ug/kg	
75-09-2	Methylene chloride	7.0 U	14	7.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	2.1 U	7.0	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.5 U	7.0	1.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	2.5 U	7.0	2.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	7.0	1.4	ug/kg	
127-18-4	Tetrachloroethylene	1.7 U	7.0	1.7	ug/kg	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB129-SO-0002		
Lab Sample ID:	F69760-13	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	73.4
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.4 U	7.0	1.4	ug/kg	
79-01-6	Trichloroethylene	1.7 U	7.0	1.7	ug/kg	
75-69-4	Trichlorofluoromethane	2.8 U	7.0	2.8	ug/kg	
75-01-4	Vinyl chloride	2.8 U	7.0	2.8	ug/kg	
1330-20-7	Xylene (total)	4.1 U	21	4.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-121%
2037-26-5	Toluene-D8	100%		71-130%
460-00-4	4-Bromofluorobenzene	108%		59-148%
17060-07-0	1,2-Dichloroethane-D4	97%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	KWTFS-SB132-SO-0002		
Lab Sample ID:	F69760-14	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	80.1
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K042913.D	1	12/02/09	LD	n/a	n/a	VK1868
Run #2							

	Initial Weight
Run #1	5.18 g
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	12 U	30	12	ug/kg	
107-13-1	Acrylonitrile	8.3 U	30	8.3	ug/kg	
71-43-2	Benzene	1.2 U	6.0	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	6.0	1.4	ug/kg	
75-25-2	Bromoform	1.8 U	6.0	1.8	ug/kg	
108-90-7	Chlorobenzene	1.2 U	6.0	1.2	ug/kg	
75-00-3	Chloroethane	2.4 U	6.0	2.4	ug/kg	
67-66-3	Chloroform	2.0 U	6.0	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	12 U	30	12	ug/kg	
56-23-5	Carbon tetrachloride	1.7 U	6.0	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	2.4 U	6.0	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	6.0	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	1.3 U	6.0	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	1.7 U	6.0	1.7	ug/kg	
124-48-1	Dibromochloromethane	1.2 U	6.0	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	2.4 U	6.0	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.9 U	6.0	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	6.0	1.6	ug/kg	
541-73-1	m-Dichlorobenzene	1.2 U	6.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	1.2 U	6.0	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	1.2 U	6.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	6.0	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.2 U	6.0	1.2	ug/kg	
100-41-4	Ethylbenzene	1.2 U	6.0	1.2	ug/kg	
74-83-9	Methyl bromide	2.7 U	6.0	2.7	ug/kg	
74-87-3	Methyl chloride	2.9 U	6.0	2.9	ug/kg	
75-09-2	Methylene chloride	6.0 U	12	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8 U	6.0	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.3 U	6.0	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	2.2 U	6.0	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.2 U	6.0	1.2	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	6.0	1.4	ug/kg	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB132-SO-0002		
Lab Sample ID:	F69760-14	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	80.1
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.2 U	6.0	1.2	ug/kg	
79-01-6	Trichloroethylene	1.4 U	6.0	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	2.4 U	6.0	2.4	ug/kg	
75-01-4	Vinyl chloride	2.4 U	6.0	2.4	ug/kg	
1330-20-7	Xylene (total)	3.5 U	18	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	104%		59-148%
17060-07-0	1,2-Dichloroethane-D4	103%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-SO-0002		
Lab Sample ID:	F69760-15	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	73.6
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K042949.D	1	12/03/09	LD	n/a	n/a	VK1869
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.97 g	5.0 ml	50.0 ul
Run #2			

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	1700 U	4300	1700	ug/kg	
107-13-1	Acrylonitrile	1200 U	4300	1200	ug/kg	
71-43-2	Benzene	170 U	860	170	ug/kg	
75-27-4	Bromodichloromethane	210 U	860	210	ug/kg	
75-25-2	Bromoform	260 U	860	260	ug/kg	
108-90-7	Chlorobenzene	170 U	860	170	ug/kg	
75-00-3	Chloroethane	350 U	860	350	ug/kg	
67-66-3	Chloroform	290 U	860	290	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	1700 U	4300	1700	ug/kg	
56-23-5	Carbon tetrachloride	240 U	860	240	ug/kg	
75-34-3	1,1-Dichloroethane	350 U	860	350	ug/kg	
75-35-4	1,1-Dichloroethylene	220 U	860	220	ug/kg	
107-06-2	1,2-Dichloroethane	190 U	860	190	ug/kg	
78-87-5	1,2-Dichloropropane	240 U	860	240	ug/kg	
124-48-1	Dibromochloromethane	170 U	860	170	ug/kg	
75-71-8	Dichlorodifluoromethane	350 U	860	350	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	280 U	860	280	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	220 U	860	220	ug/kg	
541-73-1	m-Dichlorobenzene	170 U	860	170	ug/kg	
95-50-1	o-Dichlorobenzene	170 U	860	170	ug/kg	
106-46-7	p-Dichlorobenzene	170 U	860	170	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	210 U	860	210	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	170 U	860	170	ug/kg	
100-41-4	Ethylbenzene	16500	860	170	ug/kg	
74-83-9	Methyl bromide	380 U	860	380	ug/kg	
74-87-3	Methyl chloride	410 U	860	410	ug/kg	
75-09-2	Methylene chloride	860 U	1700	860	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	260 U	860	260	ug/kg	
71-55-6	1,1,1-Trichloroethane	190 U	860	190	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	310 U	860	310	ug/kg	
79-00-5	1,1,2-Trichloroethane	170 U	860	170	ug/kg	
127-18-4	Tetrachloroethylene	210 U	860	210	ug/kg	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB147-SO-0002		
Lab Sample ID:	F69760-15	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	73.6
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	170 U	860	170	ug/kg	
79-01-6	Trichloroethylene	210 U	860	210	ug/kg	
75-69-4	Trichlorofluoromethane	350 U	860	350	ug/kg	
75-01-4	Vinyl chloride	350 U	860	350	ug/kg	
1330-20-7	Xylene (total)	6280	2600	500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-121%
2037-26-5	Toluene-D8	99%		71-130%
460-00-4	4-Bromofluorobenzene	94%		59-148%
17060-07-0	1,2-Dichloroethane-D4	98%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8011M SW846 8011 M	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD53191.D	1	12/01/09	KL	12/01/09	OP31088	GDD1543
Run #2							

	Initial Weight	Final Volume
Run #1	5.01 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.091 U	0.27	0.091	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		73-131%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-SO-0002		
Lab Sample ID:	F69760-12	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8011M SW846 8011 M	Percent Solids:	86.2
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD53192.D	1	12/01/09	KL	12/01/09	OP31088	GDD1543
Run #2							

	Initial Weight	Final Volume
Run #1	5.03 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.081 U	0.24	0.081	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73%		73-131%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-SO-0002		
Lab Sample ID:	F69760-13	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8011M SW846 8011 M	Percent Solids:	73.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD53193.D	1	12/01/09	KL	12/01/09	OP31088	GDD1543
Run #2							

	Initial Weight	Final Volume
Run #1	5.06 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.094 U	0.28	0.094	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		73-131%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB132-SO-0002		
Lab Sample ID:	F69760-14	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8011M SW846 8011 M	Percent Solids:	80.1
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD53194.D	1	12/01/09	KL	12/01/09	OP31088	GDD1543
Run #2							

	Initial Weight	Final Volume
Run #1	5.09 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.086 U	0.26	0.086	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		73-131%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-SO-0002		
Lab Sample ID:	F69760-15	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8011M SW846 8011 M	Percent Solids:	73.6
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD53197.D	1	12/01/09	KL	12/01/09	OP31088	GDD1543
Run #2							

	Initial Weight	Final Volume
Run #1	5.09 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.093 U	0.28	0.093	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	77%		73-131%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB101-GW-0307		
Lab Sample ID:	F69760-4	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048905.D	1	12/01/09	RB	11/30/09	OP31068	SW2460
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	61%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-GW-0307		
Lab Sample ID:	F69760-5	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048906.D	1	12/01/09	RB	11/30/09	OP31068	SW2460
Run #2	W048950.D	2	12/02/09	RB	11/30/09	OP31068	SW2461

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.97	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.24 U	0.97	0.24	ug/l	
86-73-7	Fluorene	0.70	0.97	0.49	ug/l	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	55.7 [a]	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	54.9 [a]	1.9	0.49	ug/l	
91-20-3	Naphthalene	38.6	0.97	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.97	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%	86%	42-108%
321-60-8	2-Fluorobiphenyl	68%	74%	40-106%
1718-51-0	Terphenyl-d14	59%	65%	39-121%

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-GW-0307		
Lab Sample ID:	F69760-6	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W048951.D	2	12/02/09	RB	11/30/09	OP31068	SW2461
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.096 U	0.38	0.096	ug/l	
50-32-8	Benzo(a)pyrene	0.096 U	0.38	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	0.096 U	0.38	0.096	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.38	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.096 U	0.38	0.096	ug/l	
218-01-9	Chrysene	0.19 U	0.38	0.19	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.096 U	0.38	0.096	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.096 U	0.38	0.096	ug/l	
90-12-0	1-Methylnaphthalene	0.57	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-20-3	Naphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.48 U	1.9	0.48	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	41%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

(a) Dilution required due to matrix interference.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB122-GW-0307		
Lab Sample ID:	F69760-2	Date Sampled:	11/20/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U015342.D	1	11/30/09	NAF	11/27/09	OP31054	SU747
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.50 U	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	0.50 U	1.0	0.50	ug/l	
120-12-7	Anthracene	0.50 U	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	0.050 U	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	0.050 U	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	0.050 U	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.050 U	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	0.050 U	0.20	0.050	ug/l	
218-01-9	Chrysene	0.10 U	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.050 U	0.20	0.050	ug/l	
206-44-0	Fluoranthene	0.25 U	1.0	0.25	ug/l	
86-73-7	Fluorene	0.50 U	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.050 U	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	0.25 U	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	0.25 U	1.0	0.25	ug/l	
91-20-3	Naphthalene	0.25 U	1.0	0.25	ug/l	
85-01-8	Phenanthrene	0.25 U	1.0	0.25	ug/l	
129-00-0	Pyrene	0.25 U	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-GW-0307		
Lab Sample ID:	F69760-7	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048910.D	1	12/01/09	RB	11/30/09	OP31068	SW2460
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.97	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.24 U	0.97	0.24	ug/l	
86-73-7	Fluorene	0.49 U	0.97	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.97	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.97	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	60%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB132-GW-0307		
Lab Sample ID:	F69760-8	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048911.D	1	12/01/09	RB	11/30/09	OP31068	SW2460
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB134-GW-0307		
Lab Sample ID:	F69760-9	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048912.D	1	12/01/09	RB	11/30/09	OP31068	SW2460
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.55	0.97	0.49	ug/l	I
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.065	0.19	0.049	ug/l	I
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.52	0.97	0.24	ug/l	I
86-73-7	Fluorene	0.49 U	0.97	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.34	0.97	0.24	ug/l	I
91-57-6	2-Methylnaphthalene	0.30	0.97	0.24	ug/l	I
91-20-3	Naphthalene	0.42	0.97	0.24	ug/l	I
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.37	0.97	0.24	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-GW-0307		
Lab Sample ID:	F69760-10	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048913.D	1	12/01/09	RB	11/30/09	OP31068	SW2460
Run #2 [a]	W048975.D	1	12/03/09	RB	12/03/09	OP31118	SW2464

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1030 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.49	0.96	0.24	ug/l	I
91-57-6	2-Methylnaphthalene	0.49	0.96	0.24	ug/l	I
91-20-3	Naphthalene	3.3	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.29	0.96	0.24	ug/l	I
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	41% [b]	68%	42-108%
321-60-8	2-Fluorobiphenyl	21% [b]	31%	40-106%
1718-51-0	Terphenyl-d14	21% [b]	9%	39-121%

(a) Confirmation run.
(b) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W048957.D	10	12/02/09	RB	11/30/09	OP31073	SW2462
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	850	210	ug/kg	
208-96-8	Acenaphthylene	210 U	850	210	ug/kg	
120-12-7	Anthracene	110 U	850	110	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	85	42	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	85	42	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	85	42	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	85	42	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	85	42	ug/kg	
218-01-9	Chrysene	42 U	85	42	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	85	42	ug/kg	
206-44-0	Fluoranthene	110 U	850	110	ug/kg	
86-73-7	Fluorene	210 U	850	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	85	42	ug/kg	
90-12-0	1-Methylnaphthalene	5610	850	110	ug/kg	
91-57-6	2-Methylnaphthalene	5380	850	110	ug/kg	
91-20-3	Naphthalene	1480	850	110	ug/kg	
85-01-8	Phenanthrene	110 U	850	110	ug/kg	
129-00-0	Pyrene	110 U	850	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	579% [b]		40-105%
321-60-8	2-Fluorobiphenyl	62%		43-107%
1718-51-0	Terphenyl-d14	74%		45-119%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to matrix interference.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-SO-0002		
Lab Sample ID:	F69760-12	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	86.2
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048944.D	4	12/01/09	RB	11/30/09	OP31073	SW2461
Run #2	W048960.D	16	12/02/09	RB	11/30/09	OP31073	SW2462

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2	31.3 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	74 U	300	74	ug/kg	
208-96-8	Acenaphthylene	74 U	300	74	ug/kg	
120-12-7	Anthracene	106	300	37	ug/kg	I
56-55-3	Benzo(a)anthracene	858 [a]	120	59	ug/kg	
50-32-8	Benzo(a)pyrene	1240 [a]	120	59	ug/kg	
205-99-2	Benzo(b)fluoranthene	1910 [a]	120	59	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1080 [a]	120	59	ug/kg	
207-08-9	Benzo(k)fluoranthene	659	30	15	ug/kg	
218-01-9	Chrysene	1350 [a]	120	59	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	211	30	15	ug/kg	
206-44-0	Fluoranthene	1920	300	37	ug/kg	
86-73-7	Fluorene	74 U	300	74	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1180 [a]	120	59	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	300	37	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	300	37	ug/kg	
91-20-3	Naphthalene	37 U	300	37	ug/kg	
85-01-8	Phenanthrene	735	300	37	ug/kg	
129-00-0	Pyrene	1670	300	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	45%	0% [b]	40-105%
321-60-8	2-Fluorobiphenyl	58%	0% [b]	43-107%
1718-51-0	Terphenyl-d14	73%	0% [b]	45-119%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-SO-0002		
Lab Sample ID:	F69760-13	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	73.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048946.D	4	12/01/09	RB	11/30/09	OP31073	SW2461
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	91 U	360	91	ug/kg	
208-96-8	Acenaphthylene	91 U	360	91	ug/kg	
120-12-7	Anthracene	45 U	360	45	ug/kg	
56-55-3	Benzo(a)anthracene	18 U	36	18	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	36	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	36	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	36	18	ug/kg	
218-01-9	Chrysene	18 U	36	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	36	18	ug/kg	
206-44-0	Fluoranthene	45 U	360	45	ug/kg	
86-73-7	Fluorene	91 U	360	91	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	36	18	ug/kg	
90-12-0	1-Methylnaphthalene	45 U	360	45	ug/kg	
91-57-6	2-Methylnaphthalene	45 U	360	45	ug/kg	
91-20-3	Naphthalene	45 U	360	45	ug/kg	
85-01-8	Phenanthrene	45 U	360	45	ug/kg	
129-00-0	Pyrene	45 U	360	45	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	55%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB132-SO-0002		
Lab Sample ID:	F69760-14	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	80.1
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048947.D	4	12/01/09	RB	11/30/09	OP31073	SW2461
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	82 U	330	82	ug/kg	
208-96-8	Acenaphthylene	82 U	330	82	ug/kg	
120-12-7	Anthracene	41 U	330	41	ug/kg	
56-55-3	Benzo(a)anthracene	67.8	33	16	ug/kg	
50-32-8	Benzo(a)pyrene	79.3	33	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	143	33	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	66.3	33	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	51.0	33	16	ug/kg	
218-01-9	Chrysene	94.1	33	16	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16.6	33	16	ug/kg	I
206-44-0	Fluoranthene	174	330	41	ug/kg	I
86-73-7	Fluorene	82 U	330	82	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	74.0	33	16	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	330	41	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	330	41	ug/kg	
91-20-3	Naphthalene	41 U	330	41	ug/kg	
85-01-8	Phenanthrene	81.6	330	41	ug/kg	I
129-00-0	Pyrene	152	330	41	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		40-105%
321-60-8	2-Fluorobiphenyl	59%		43-107%
1718-51-0	Terphenyl-d14	69%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-SO-0002		
Lab Sample ID:	F69760-15	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	73.6
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W048948.D	4	12/01/09	RB	11/30/09	OP31073	SW2461
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	89 U	350	89	ug/kg	
208-96-8	Acenaphthylene	89 U	350	89	ug/kg	
120-12-7	Anthracene	44 U	350	44	ug/kg	
56-55-3	Benzo(a)anthracene	18 U	35	18	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	35	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	35	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	35	18	ug/kg	
218-01-9	Chrysene	18 U	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	35	18	ug/kg	
206-44-0	Fluoranthene	44 U	350	44	ug/kg	
86-73-7	Fluorene	89 U	350	89	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	35	18	ug/kg	
90-12-0	1-Methylnaphthalene	44 U	350	44	ug/kg	
91-57-6	2-Methylnaphthalene	44 U	350	44	ug/kg	
91-20-3	Naphthalene	44 U	350	44	ug/kg	
85-01-8	Phenanthrene	44 U	350	44	ug/kg	
129-00-0	Pyrene	44 U	350	44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		40-105%
321-60-8	2-Fluorobiphenyl	55%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB101-GW-0307		
Lab Sample ID:	F69760-4	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61452.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2102
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-GW-0307		
Lab Sample ID:	F69760-5	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61453.D	4	12/01/09	ME	11/27/09	OP31056	GIJ2102
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	4.13	0.96	0.65	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-GW-0307		
Lab Sample ID:	F69760-6	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61454.D	20	12/01/09	ME	11/27/09	OP31056	GIJ2102
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	16.1	4.8	3.2	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		38-122%

(a) Outside control limits due to dilution.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB122-GW-0307		
Lab Sample ID:	F69760-2	Date Sampled:	11/20/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61442.D	1	12/01/09	ME	11/26/09	OP31049	GIJ2102
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.902	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-GW-0307		
Lab Sample ID:	F69760-7	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61455.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2102
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB132-GW-0307		
Lab Sample ID:	F69760-8	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61430.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2101
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.185	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB134-GW-0307		
Lab Sample ID:	F69760-9	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61456.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2102
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.348	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-GW-0307		
Lab Sample ID:	F69760-10	Date Sampled:	11/24/09
Matrix:	AQ - Ground Water	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61457.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2102
Run #2 [a]	IJ61522.D	1	12/03/09	FEA	12/03/09	OP31123	GIJ2104

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1020 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.69	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	22% [b]	23%	38-122%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis. Beyond hold time.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61492.D	20	12/02/09	FEA	11/30/09	OP31072	GIJ2103
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1570	210	150	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		47-111%

(a) Outside control limits due to dilution.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-SO-0002		
Lab Sample ID:	F69760-12	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	86.2
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61493.D	1	12/02/09	FEA	11/30/09	OP31072	GIJ2103
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	79.6	9.2	6.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		47-111%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-SO-0002		
Lab Sample ID:	F69760-13	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	73.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61471.D	1	12/01/09	ME	11/30/09	OP31072	GIJ2102
Run #2							

	Initial Weight	Final Volume
Run #1	31.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	7.3 U	11	7.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		47-111%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB132-SO-0002		
Lab Sample ID:	F69760-14	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	80.1
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61494.D	1	12/02/09	FEA	11/30/09	OP31072	GIJ2103
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	43.2	10	6.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		47-111%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB147-SO-0002		
Lab Sample ID:	F69760-15	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	73.6
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61495.D	1	12/02/09	FEA	11/30/09	OP31072	GIJ2103
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	15.9	11	7.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		47-111%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F69760

Site: NAS Key West, Key West, FL **Report Date:** 12/15/2009 10:16:07

13 Samples and 2 Trip Blanks were collected on/between 11/09/2009 and 11/24/2009 and were received at Accutest SE on 11/25/2009 properly preserved, at 4 Deg. C and intact. These Samples received an Accutest job number of F69760. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VF1079

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69757-4MS, F69757-4MSD were used as the QC samples indicated.

Matrix Spike and Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

F69760-2: Sample was not preserved to a pH < 2; reported results are considered minimum values. Sample was treated with anti-foaming agent.

Matrix: AQ **Batch ID:** VJ3037

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69726-12MS, F69726-12MSD were used as the QC samples indicated.

Matrix Spike Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether, Dichlorodifluoromethane are outside control limits. Probable cause: due to matrix interference.

RPD for MSD for 2-Chloroethyl vinyl ether is outside control limits for sample F69726-12MSD. Probable cause due to sample non-homogeneity.

F69760-3, F69760-5, F69760-8, F69760-9, F69760-10: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F69760-10 for Acrolein: CCV outside of control limits; results may be biased high.

Matrix: AQ **Batch ID:** VJ3039

All samples were analyzed within the recommended method holding time.

Samples F69793-1MS, F69793-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

F69760-10: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F69760-10 for Methylene chloride: Suspected laboratory contaminant.

Matrix: SO **Batch ID:** VK1868

Samples F69767-1MS, F69767-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method SW846 8260B: F69760-1. Sample received outside the holding time.

Matrix Spike Recoverys for Acrolein, Acrylonitrile, Methylene chloride are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recoverys for Acrylonitrile, Methylene chloride are outside control limits. Probable cause: due to matrix interference.

F69760-1: Sample received outside the holding time.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VK1869

All samples were analyzed within the recommended method holding time.

Samples F69616-35MS, F69616-35MSD were used as the QC samples indicated.

Matrix Spike Recovery for Methylene chloride is outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recovery for Acrylonitrile is outside control limits. Probable cause: due to matrix interference.

RPD for MSD for Methylene chloride is outside control limits for sample F69616-35MSD. Probable cause due to sample non-homogeneity.

F69760-11: Confirmation run for internal standard areas.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP31054

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69772-1MS, F69772-1MSD were used as the QC samples indicated.

RPDs for MSD for 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene are outside control limits for sample OP31054-MSD. Probable cause due to sample non-homogeneity.

Samples F69760-10, F69760-12, OP31073-MS, OP31073-MSD, F69760-11, F69760-10 have surrogates outside control limits. Probable cause: due to matrix interference.

OP31054-MB for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP31068

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69760-5MS, F69760-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene are outside control limits. Probable cause: due to matrix interference.

Samples F69760-10, F69760-12, OP31073-MS, OP31073-MSD, F69760-11, F69760-10 have surrogates outside control limits. Probable cause: due to matrix interference.

F69760-6: Dilution required due to matrix interference.

F69760-10 for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

Matrix: AQ **Batch ID:** OP31118

The following samples were re-extracted outside of holding time for method SW846 8270C BY SIM: F69760-10

F69760-10: Confirmation run.

Matrix: SO **Batch ID:** OP31073

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69760-11MS, F69760-11MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for Naphthalene are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Recoverys for 1-Methylnaphthalene, 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Samples F69760-10, F69760-12, OP31073-MS, OP31073-MSD, F69760-11, F69760-10 have surrogates outside control limits. Probable cause: due to matrix interference.

F69760-11: Dilution required due to matrix interference.

F69760-11, OP31073-MS, OP31073-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

F69760-12 for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

Volatiles by GC by Method SW846 8011M

Matrix: SO **Batch ID:** OP31088

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69760-14MS, F69760-14MSD were used as the QC samples indicated.

Extractables by GC by Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP31049

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69691-4MS, F69691-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

Matrix: AQ **Batch ID:** OP31056

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69757-7MS, F69757-7MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

F69760-10 for o-Terphenyl: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis. Beyond hold time.

F69760-6 for o-Terphenyl: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP31123

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

Matrix: SO **Batch ID:** OP31072

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69735-1MS, F69735-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recovery for TPH (C8-C40) is outside control limits. Probable cause: due to matrix interference.

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

F69760-11 for o-Terphenyl: Outside control limits due to dilution.

Metals by Method SW846 6010B

Matrix: SO **Batch ID:** MP17412

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69717-1DUP, F69717-1MS, F69717-1MSD, F69717-1SDL were used as the QC samples for metals.

RPD for Serial Dilution for Lead is outside control limits for sample MP17412-SD1. Probable cause due to sample non-homogeneity.

MP17412-SD1 for Lead: Serial dilution indicates possible matrix interference.

F69760-11, F69760-12, F69760-13, F69760-14, F69760-15 for Lead: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry by Method SM19 2540B M

Matrix: SO **Batch ID:** GN37585

Sample F69717-1DUP was used as the QC sample for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: December 15, 2009

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, December 15, 2009

F69760

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000109-3

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01294	**KEY WEST NAS**	**Chuck Bryan**	**Federal Express**	**Accutest Labs, SE** **4405 Vineland Road** **Orlando, FL 32811**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
0105	7day	**Gary Braganza**	**870516209265**	**Heather Wandrey** **407-425-6700 x120**

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
1	11/09/2009	KW-TFS-TB-04-1104	13:03	SW-846 5030B/8260	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/MeOH	3	Glass - Clear	40ml vials	soil trip blank
2	11/20/2009	KWTFS-SB122-GW-0307	11:42	SW-846 5030B/8260	KWTFS-SB122	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/20/2009	KWTFS-SB122-GW-0307	11:42	SW-846 8270C SIM	KWTFS-SB122	GW	PAHs	4°C	2	Glass - Amber	1L	
3	11/24/2009	KW-TFS-TB-03-1109	00:00	SW-846 5030B/8260	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/HCL	2	Glass - Clear	40ml vials	Trip Blank
	11/24/2009	KWTFS-SB101-GW-0307	10:00	SW-846 5030B/8260	KWTFS-SB101	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
4	11/24/2009	KWTFS-SB101-GW-0307	10:00	SW-846 8270C SIM	KWTFS-SB101	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB101-GW-0307	10:00	FL-PRO	KWTFS-SB101	GW	TRPH	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB108-GW-0307	09:30	SW-846 5030B/8260	KWTFS-SB108	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
5	11/24/2009	KWTFS-SB108-GW-0307	09:30	SW-846 8270C SIM	KWTFS-SB108	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB108-GW-0307	09:30	FL-PRO	KWTFS-SB108	GW	TRPH	4°C	2	Glass - Amber	1L	
1	11/24/2009	KWTFS-SB108-SO-0002	09:30	SW-846 8260B	KWTFS-SB108	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
	11/24/2009	KWTFS-SB108-SO-0002	09:30	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB108	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB114-GW-0307	11:15	SW-846 5030B/8260	KWTFS-SB114	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/24/2009	KWTFS-SB114-GW-0307	11:15	SW-846 8270C SIM	KWTFS-SB114	GW	PAHs	4°C	2	Glass - Amber	1L	
2	11/24/2009	KWTFS-SB114-GW-0307	11:15	FL-PRO	KWTFS-SB114	GW	TRPH	4°C	2	Glass - Amber	1L	
2	11/24/2009	KWTFS-SB114-SO-0002	11:15	SW-846 8260B	KWTFS-SB114	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
	11/24/2009	KWTFS-SB114-SO-0002	11:15	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB114	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB129-GW-0307	13:30	SW-846 5030B/8260	KWTFS-SB129	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
7	11/24/2009	KWTFS-SB129-GW-0307	13:30	SW-846 8270C SIM	KWTFS-SB129	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB129-GW-0307	13:30	FL-PRO	KWTFS-SB129	GW	TRPH	4°C	2	Glass - Amber	1L	
3	11/24/2009	KWTFS-SB129-SO-0002	13:30	SW-846 8260B	KWTFS-SB129	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
1	11/24/2009	KWTFS-SB129-SO-0002	13:30	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB129	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB132-GW-0307	14:00	SW-846 5030B/8260	KWTFS-SB132	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
8	11/24/2009	KWTFS-SB132-GW-0307	14:00	SW-846 8270C SIM	KWTFS-SB132	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB132-GW-0307	14:00	FL-PRO	KWTFS-SB132	GW	TRPH	4°C	2	Glass - Amber	1L	
4	11/24/2009	KWTFS-SB132-SO-0002	14:00	SW-846 8260B	KWTFS-SB132	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
1	11/24/2009	KWTFS-SB132-SO-0002	14:00	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB132	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB134-GW-0307	15:30	SW-846 5030B/8260	KWTFS-SB134	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
9	11/24/2009	KWTFS-SB134-GW-0307	15:30	SW-846 8270C SIM	KWTFS-SB134	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB134-GW-0307	15:30	FL-PRO	KWTFS-SB134	GW	TRPH	4°C	2	Glass - Amber	1L	

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11/24/2009	KWTFS-SB147-GW-0307	12:15	SW-846 5030B/8260	KWTFS-SB147	GW	VOCs (Incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
11/24/2009	KWTFS-SB147-GW-0307	12:15	SW-846 8270C SIM	KWTFS-SB147	GW	PAHs	4°C	2	Glass - Amber	1L	
11/24/2009	KWTFS-SB147-GW-0307	12:15	FL-PRO	KWTFS-SB147	GW	TRPH	4°C	2	Glass - Amber	1L	
11/24/2009	KWTFS-SB147-SO-0002	12:15	SW-846 8260B	KWTFS-SB147	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
11/24/2009	KWTFS-SB147-SO-0002	12:15	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB147	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	

1. Relinquished By: Gary Braganza	Date: 11/24/2009	Time: 15:45	Received By: Federal Express	Date: 11/24/2009	Time: 16:45
2. Relinquished By: Fx	Date:	Time:	Received By: J. Grant	Date: 11-25-09	Time: 10:00
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments: 1.8 2.4 3.6 4.0

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F69760 CLIENT: TETRA-TECH PROJECT: 112 G01294

DATE/TIME RECEIVED: 11-23-09 09:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 5

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ?

NUMBER OF 5035 FIELD KITS ? 5+TB

NUMBER OR LAB FILTERED METALS ?

TEMPERATURE INFORMATION

- [ ] IR THERM ID 2 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 1.4 2.0 2.4 3.2 3.6
- [ ] CORRECTED TEMPS: 1.8 2.4 2.8 3.6 4.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: FOR SAMPLE #2 RECEIVED 2 AMBER FL-PRO NOT REQUESTED ON COC.
RECEIVED ONLY 1 AMBER (FL-PRO) FOR SAMPLE #7
RECEIVED ONLY 1 AMBER (BLTO) FOR SAMPLE #9

TECHNICIAN SIGNATURE/DATE: 11-25-09 REVIEWER SIGNATURE/DATE: ET-11-25-09

NF 10/09 RECEIPT CONFIRMATION 100609 (2).xls

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Sample Summary

Tetra Tech NUS

Job No: F69760

NAS Key West, Key West, FL
Project No: 112G01294

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F69760-1	11/09/09	13:03	GB	11/25/09	SO	Trip Blank Soil	KW-TFS-TB-04-1104
F69760-2	11/20/09	11:42	GB	11/25/09	AQ	Ground Water	KWTFS-SB122-GW-0307
F69760-3	11/24/09	00:00	GB	11/25/09	AQ	Trip Blank Water	KW-TFS-TB-03-1109
F69760-4	11/24/09	10:00	GB	11/25/09	AQ	Ground Water	KWTFS-SB101-GW-0307
F69760-5	11/24/09	09:30	GB	11/25/09	AQ	Ground Water	KWTFS-SB108-GW-0307
F69760-6	11/24/09	11:15	GB	11/25/09	AQ	Ground Water	KWTFS-SB114-GW-0307
F69760-7	11/24/09	13:30	GB	11/25/09	AQ	Ground Water	KWTFS-SB129-GW-0307
F69760-8	11/24/09	14:00	GB	11/25/09	AQ	Ground Water	KWTFS-SB132-GW-0307
F69760-9	11/24/09	15:30	GB	11/25/09	AQ	Ground Water	KWTFS-SB134-GW-0307
F69760-10	11/24/09	12:15	GB	11/25/09	AQ	Ground Water	KWTFS-SB147-GW-0307
F69760-11	11/24/09	09:30	GB	11/25/09	SO	Soil	KWTFS-SB108-SO-0002
F69760-12	11/24/09	11:15	GB	11/25/09	SO	Soil	KWTFS-SB114-SO-0002
F69760-13	11/24/09	13:30	GB	11/25/09	SO	Soil	KWTFS-SB129-SO-0002

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Tetra Tech NUS

Job No: F69760

NAS Key West, Key West, FL
Project No: 112G01294

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F69760-14	11/24/09	14:00 GB	11/25/09	SO	Soil	KWTFS-SB132-SO-0002
F69760-15	11/24/09	12:15 GB	11/25/09	SO	Soil	KWTFS-SB147-SO-0002

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SDG F69760

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
M	MG/KG	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
M	MG/KG	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
M	MG/KG	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
M	MG/KG	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
PCS	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
EDB	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	UG/KG	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	UG/KG	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	UG/KG	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	UG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	UG/KG	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
OV	%	KWTFS-SB134-GW-0307	F69760-9	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KW-TFS-TB-04-1104	F69760-1	NM	11/09/2009	12/02/2009	12/02/2009	23	0	23
OV	%	KW-TFS-TB-03-1109	F69760-3	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	12/03/2009	12/03/2009	9	0	9
OV	%	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KWTFS-SB101-GW-0307	F69760-4	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KWTFS-SB132-GW-0307	F69760-8	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	%	KWTFS-SB129-GW-0307	F69760-7	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KWTFS-SB122-GW-0307	F69760-2	NM	11/20/2009	12/04/2009	12/04/2009	14	0	14
OV	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	%	KWTFS-SB114-GW-0307	F69760-6	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	12/03/2009	12/03/2009	9	0	9

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	12/08/2009	12/08/2009	14	0	14
OV	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	%	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/KG	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	UG/KG	KW-TFS-TB-04-1104	F69760-1	NM	11/09/2009	12/02/2009	12/02/2009	23	0	23
OV	UG/KG	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	UG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	UG/KG	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	12/02/2009	12/02/2009	8	0	8
OV	UG/KG	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	12/03/2009	12/03/2009	9	0	9
OV	UG/L	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	12/08/2009	12/08/2009	14	0	14
OV	UG/L	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KW-TFS-TB-03-1109	F69760-3	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KWTFS-SB134-GW-0307	F69760-9	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KWTFS-SB132-GW-0307	F69760-8	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KWTFS-SB129-GW-0307	F69760-7	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KWTFS-SB114-GW-0307	F69760-6	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	KWTFS-SB101-GW-0307	F69760-4	NM	11/24/2009	12/05/2009	12/05/2009	11	0	11
OV	UG/L	KWTFS-SB122-GW-0307	F69760-2	NM	11/20/2009	12/04/2009	12/04/2009	14	0	14
SIM	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	%	KWTFS-SB101-GW-0307	F69760-4	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	%	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	12/03/2009	12/03/2009	9	0	9
SIM	%	KWTFS-SB134-GW-0307	F69760-9	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB132-GW-0307	F69760-8	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB122-GW-0307	F69760-2	NM	11/20/2009	11/27/2009	11/30/2009	7	3	10
SIM	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB114-GW-0307	F69760-6	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	%	KWTFS-SB129-GW-0307	F69760-7	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/KG	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	UG/KG	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/KG	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/KG	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	UG/L	KWTFS-SB129-GW-0307	F69760-7	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/L	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/L	KWTFS-SB134-GW-0307	F69760-9	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/L	KWTFS-SB132-GW-0307	F69760-8	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/L	KWTFS-SB114-GW-0307	F69760-6	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	UG/L	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
SIM	UG/L	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/L	KWTFS-SB101-GW-0307	F69760-4	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
SIM	UG/L	KWTFS-SB122-GW-0307	F69760-2	NM	11/20/2009	11/27/2009	11/30/2009	7	3	10
TPH	%	KWTFS-SB134-GW-0307	F69760-9	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	%	KWTFS-SB101-GW-0307	F69760-4	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	%	KWTFS-SB132-GW-0307	F69760-8	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
TPH	%	KWTFS-SB122-GW-0307	F69760-2	NM	11/20/2009	11/26/2009	12/01/2009	6	5	11
TPH	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	%	KWTFS-SB114-GW-0307	F69760-6	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	%	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	%	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	12/03/2009	12/03/2009	9	0	9
TPH	%	KWTFS-SB129-GW-0307	F69760-7	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	MG/KG	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
TPH	MG/KG	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	MG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	MG/KG	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	MG/KG	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
TPH	MG/L	KWTFS-SB147-GW-0307	F69760-10	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	MG/L	KWTFS-SB101-GW-0307	F69760-4	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	MG/L	KWTFS-SB108-GW-0307	F69760-5	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	MG/L	KWTFS-SB114-GW-0307	F69760-6	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	MG/L	KWTFS-SB122-GW-0307	F69760-2	NM	11/20/2009	11/26/2009	12/01/2009	6	5	11
TPH	MG/L	KWTFS-SB129-GW-0307	F69760-7	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	MG/L	KWTFS-SB132-GW-0307	F69760-8	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7
TPH	MG/L	KWTFS-SB134-GW-0307	F69760-9	NM	11/24/2009	11/27/2009	12/01/2009	3	4	7

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3020-BFB	Injection Date:	11/20/09
Lab File ID:	J051523.D	Injection Time:	09:14
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	25282	22.2		Pass
75	30.0 - 60.0% of mass 95	54241	47.7		Pass
95	Base peak, 100% relative abundance	113669	100.0		Pass
96	5.0 - 9.0% of mass 95	8800	7.7		Pass
173	Less than 2.0% of mass 174	228	0.2	(0.23) [a]	Pass
174	50.0 - 100.0% of mass 95	99898	87.9		Pass
175	5.0 - 9.0% of mass 174	8093	7.1	(8.1) [a]	Pass
176	95.0 - 101.0% of mass 174	100688	88.6	(100.8) [a]	Pass
177	5.0 - 9.0% of mass 176	7479	6.6	(7.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ3020-IC3020	J051524.D	11/20/09	09:36	00:22	Initial cal 1
VJ3020-IC3020	J051525.D	11/20/09	09:59	00:45	Initial cal 2
VJ3020-ICC3020	J051527.D	11/20/09	10:45	01:31	Initial cal 4
VJ3020-IC3020	J051528.D	11/20/09	11:08	01:54	Initial cal 5
VJ3020-IC3020	J051529.D	11/20/09	11:31	02:17	Initial cal 6
VJ3020-IC3020	J051530.D	11/20/09	11:54	02:40	Initial cal 3
VJ3020-ICV3020	J051531.D	11/20/09	12:17	03:03	Initial cal verification 4

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3020-ICC3020
Lab FileID: J051527.D

Response Factor Report MSVOA6

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Fri Nov 20 12:26:28 2009
Response via : Initial Calibration

Calibration Files
1 =J051524.D 2 =J051525.D 3 =J051530.D 4 =J051527.D
5 =J051528.D 6 =J051529.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.116	0.161	0.136	0.140	0.131	0.122	0.134	11.67
3)	P	Chloromethane	0.517	0.403	0.338	0.331	0.305	0.277	0.362	24.00
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.36560 *A + -0.04400 *A^2								
4)	C	Vinyl Chloride	0.388	0.380	0.322	0.310	0.283	0.259	0.324	15.98
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.34277 *A + -0.04212 *A^2								
5)		Bromomethane	0.310	0.257	0.212	0.197	0.171	0.149	0.216	27.18
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.22804 *A + -0.03964 *A^2								
6)		Chloroethane	0.215	0.206	0.179	0.167	0.143	0.120	0.172	21.22
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.19708 *A + -0.03867 *A^2								
7)		Trichlorofluorometh	0.320	0.406	0.351	0.352	0.335	0.312	0.346	9.75
8)		Ethyl Ether	0.272	0.272	0.242	0.237	0.229	0.215	0.245	9.46
9)		1,2-Dichlorotrifluo	0.329	0.342	0.281	0.263	0.252	0.232	0.283	15.41
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.29151 *A + -0.02965 *A^2								
10)	C	1,1-Dichloroethene	0.453	0.471	0.396	0.382	0.370	0.340	0.402	12.45
11)		Freon 113	0.217	0.275	0.236	0.216	0.205	0.194	0.224	12.83
12)		Carbon Disulfide	0.895	0.824	0.682	0.649	0.617	0.569	0.706	17.91
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.71520 *A + -0.07270 *A^2								
13)		Iodomethane	0.525	0.548	0.494	0.459	0.448	0.432	0.484	9.47
14)		Methylene Chloride	1.156	0.573	0.440	0.429	0.414	0.383	0.566	52.37
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.46968 *A + -0.04275 *A^2								
15)		Acetone	0.041	0.031	0.027	0.026	0.026	0.025	0.029	20.73
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.02758 *A + -0.00029 *A^2								
16)		Methyl acetate	0.043	0.044	0.040	0.038	0.038	0.036	0.040	7.36
17)		trans-1,2-Dichloroe	0.505	0.476	0.411	0.392	0.387	0.368	0.423	12.95
18)		Hexane	0.267	0.298	0.253	0.243	0.238	0.225	0.254	10.21
19)		Methyl Tert Butyl E	0.731	0.746	0.705	0.666	0.657	0.624	0.688	6.82
20)		Di-isopropyl ether	1.027	0.998	0.919	0.895	0.882	0.836	0.926	7.85
21)	P	1,1-Dichloroethane	0.576	0.557	0.492	0.479	0.471	0.447	0.504	10.13
22)		Acrylonitrile	0.098	0.096	0.094	0.095	0.093	0.090	0.094	3.15

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3020-ICC3020
Lab FileID: J051527.D

23)		ETBE	0.868	0.889	0.848	0.825	0.807	0.763	0.833	5.44
24)		Vinyl acetate	0.235	0.237	0.239	0.241	0.233	0.219	0.234	3.33
25)		cis-1,2-Dichloroeth	0.315	0.318	0.294	0.280	0.277	0.266	0.292	7.24
26)		2,2-Dichloropropane	0.350	0.390	0.362	0.335	0.330	0.317	0.347	7.54
27)		Bromochloromethane	0.164	0.163	0.150	0.147	0.147	0.144	0.153	5.80
28)		Cyclohexane	0.433	0.520	0.472	0.444	0.445	0.421	0.456	7.87
29)	C	Chloroform	0.576	0.511	0.456	0.434	0.422	0.399	0.466	14.09
30)		Tetrahydrofuran	0.179	0.098	0.081	0.074	0.077	0.073	0.097	42.47
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9986								
		Response Ratio = 0.00000 + 0.07430 *A								
31)	S	Dibromofluoromethan	0.298	0.299	0.294	0.295	0.295	0.294	0.296	0.67
32)		Carbon Tetrachlorid	0.284	0.298	0.304	0.292	0.290	0.287	0.293	2.57
33)		1,1,1-Trichloroetha	0.367	0.400	0.370	0.347	0.348	0.332	0.361	6.58
34)		2-Butanone	0.123	0.115	0.107	0.102	0.103	0.097	0.108	8.78
35)		1,1-Dichloropropene	0.357	0.369	0.330	0.314	0.315	0.301	0.331	8.02
36)		Benzene	1.041	1.008	0.903	0.866	0.849	0.805	0.912	10.24
37)		TAME	0.687	0.711	0.669	0.642	0.637	0.603	0.658	5.87
38)	S	1,2-Dichloroethane-	0.322	0.321	0.323	0.331	0.341	0.348	0.331	3.41
39)		1,2-Dichloroethane	0.421	0.364	0.338	0.325	0.318	0.303	0.345	12.31
40)		Trichloroethene	0.289	0.274	0.250	0.236	0.241	0.232	0.254	9.00
41)		Methylcyclohexane	0.361	0.481	0.426	0.402	0.403	0.377	0.408	10.35
42)		Dibromomethane	0.177	0.163	0.156	0.150	0.152	0.146	0.157	7.17
43)	C	1,2-Dichloropropane	0.294	0.286	0.267	0.259	0.257	0.248	0.269	6.66
44)		Bromodichloromethan	0.299	0.309	0.311	0.304	0.305	0.295	0.304	1.97
45)		2-Chloroethyl vinyl	0.144	0.157	0.154	0.148	0.142	0.130	0.146	6.38
46)		cis-1,3-Dichloropro	0.344	0.371	0.374	0.362	0.360	0.344	0.359	3.54
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	S	Toluene-d8	1.297	1.282	1.272	1.260	1.254	1.263	1.272	1.27
49)	C	Toluene	1.588	1.383	1.252	1.165	1.126	1.059	1.262	15.45
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.26760 *A + -0.10423 *A^2								
50)		2-Nitropropane	0.028	0.031	0.037	0.039	0.045	0.046	0.038	19.17
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.03569 *A + 0.00109 *A^2								
51)		4-Methyl-2-pentanon	0.325	0.319	0.296	0.285	0.272	0.243	0.290	10.51
52)		trans-1,3-Dichlorop	0.445	0.443	0.448	0.433	0.423	0.398	0.432	4.32
53)		Tetrachloroethene	0.392	0.403	0.384	0.355	0.365	0.368	0.378	4.85
54)		1,1,2-Trichloroetha	0.274	0.262	0.251	0.241	0.236	0.226	0.248	7.09
55)		Dibromochloromethan	0.270	0.285	0.325	0.312	0.326	0.326	0.307	7.80
56)		1,3-Dichloropropane	0.517	0.515	0.480	0.460	0.452	0.431	0.476	7.38
57)		1,2-Dibromoethane	0.322	0.314	0.307	0.295	0.296	0.287	0.304	4.36
58)		2-hexanone	0.206	0.206	0.200	0.191	0.186	0.170	0.193	7.14
59)		1-Chlorohexane	0.453	0.480	0.445	0.420	0.418	0.403	0.437	6.45
60)	C	Ethylbenzene	1.684	1.546	1.371	1.289	1.216	1.100	1.368	15.79
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 1.44330 *A + -0.17026 *A^2								
61)	P	Chlorobenzene	1.016	0.971	0.885	0.847	0.821	0.770	0.885	10.50
62)		1,1,1,2-Tetrachloro	0.302	0.322	0.341	0.327	0.331	0.319	0.324	4.07
63)		m,p-Xylene	1.138	1.138	1.015	0.945	0.865	0.758	0.977	15.51
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.08640 *A + -0.08161 *A^2								
64)		o-Xylene	1.157	1.174	1.108	1.062	1.019	0.939	1.076	8.24
65)		Styrene	0.781	0.906	0.907	0.890	0.866	0.818	0.861	5.95
66)	P	Bromoform	0.161	0.172	0.228	0.220	0.239	0.239	0.210	16.52

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3020-ICC3020
Lab FileID: J051527.D

		---- Linear regr., Force(0,0) ---- Coefficient = 0.9991								
		Response Ratio = 0.00000 + 0.23682 *A								
67)		Isopropylbenzene	1.244	1.297	1.244	1.173	1.126	1.033	1.186	8.09
68)	I	1,4-Dichlorobenzene-d ----------ISTD----------								
69)	S	4-Bromofluorobenzen	0.852	0.839	0.826	0.816	0.813	0.835	0.830	1.80
70)		n-Propylbenzene	2.855	2.871	2.570	2.383	2.210	2.007	2.483	14.05
71)		Bromobenzene	0.739	0.739	0.718	0.673	0.686	0.676	0.705	4.35
72)	P	1,1,2,2-Tetrachloro	0.673	0.640	0.603	0.576	0.561	0.545	0.600	8.22
73)		1,3,5-Trimethylbenz	1.918	2.022	1.870	1.750	1.667	1.536	1.794	9.90
74)		2-Chlorotoluene	1.974	1.961	1.759	1.653	1.568	1.465	1.730	12.02
75)		trans-1,4-Dichloro-	0.097	0.100	0.129	0.134	0.141	0.137	0.123	15.81
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 0.13767 *A								
76)		1,2,3-Trichloroprop	0.206	0.196	0.185	0.175	0.176	0.173	0.185	7.25
77)		Cyclohexanone	0.021	0.017	0.021	0.020	0.020	0.020	0.020	7.93
78)		4-Chlorotoluene	1.739	1.749	1.617	1.507	1.440	1.368	1.570	10.06
79)		tert-Butylbenzene	1.074	1.132	1.050	0.981	0.959	0.905	1.017	8.19
80)		1,2,4-Trimethylbenz	1.963	2.088	1.933	1.815	1.718	1.599	1.853	9.58
81)		sec-Butylbenzene	2.544	2.632	2.371	2.203	2.069	1.899	2.286	12.33
82)		4-Isopropyltoluene	2.055	2.186	2.042	1.914	1.829	1.686	1.952	9.18
83)		1,3-Dichlorobenzene	1.324	1.298	1.211	1.156	1.136	1.099	1.204	7.53
84)		1,4-Dichlorobenzene	1.415	1.399	1.265	1.204	1.165	1.117	1.261	9.79
85)		n-Butylbenzene	1.236	1.325	1.201	1.165	1.104	1.012	1.174	9.23
86)		Benzyl Chloride	0.200	0.228	0.273	0.267	0.278	0.271	0.253	12.39
87)		1,2-Dichlorobenzene	1.289	1.217	1.154	1.117	1.088	1.043	1.151	7.77
88)		1,2-Dibromo-3-Chlor	0.107	0.101	0.104	0.103	0.102	0.100	0.103	2.46
89)		Hexachlorobutadiene	0.546	0.448	0.430	0.408	0.420	0.425	0.446	11.35
90)		1,2,4-Trichlorobenz	0.844	0.860	0.833	0.802	0.798	0.780	0.820	3.77
91)		Naphthalene	1.602	1.580	1.597	1.515	1.488	1.407	1.532	4.99
92)		1,2,3-Trichlorobenz	0.789	0.758	0.764	0.725	0.735	0.720	0.749	3.54
93)	I	Tert Butyl Alcohol-d1 ----------ISTD----------								
94)		acrolein	1.665	1.259	1.195	1.137	1.052	1.046	1.226	18.77
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994								
		Response Ratio = 0.00000 + 1.16939 *A + -0.06509 *A^2								
95)		Tert Butyl Alcohol	1.242	0.951	0.944	0.874	0.876	0.853	0.957	15.19
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 0.86388 *A								
96)		tert Amyl alcohol	0.648	0.701	0.743	0.704	0.729	0.718	0.707	4.65
97)		1,4-Dioxane	0.082	0.096	0.101	0.092	0.092	0.092	0.093	6.75

(#) = Out of Range

8260-J.M Sat Nov 21 09:32:41 2009

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3037-BFB	Injection Date:	12/05/09
Lab File ID:	J051885.D	Injection Time:	09:37
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19277	22.1		Pass
75	30.0 - 60.0% of mass 95	40882	46.9		Pass
95	Base peak, 100% relative abundance	87234	100.0		Pass
96	5.0 - 9.0% of mass 95	6690	7.7		Pass
173	Less than 2.0% of mass 174	416	0.48	(0.54) [a]	Pass
174	50.0 - 100.0% of mass 95	77122	88.4		Pass
175	5.0 - 9.0% of mass 174	6017	6.9	(7.8) [a]	Pass
176	95.0 - 101.0% of mass 174	75762	86.8	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	5958	6.8	(7.9) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ3037-CC3020	J051886.D	12/05/09	09:57	00:20	Continuing cal 4
VJ3037-BS	J051887.D	12/05/09	10:20	00:43	Blank Spike
VJ3037-MB	J051888.D	12/05/09	10:43	01:06	Method Blank
ZZZZZZ	J051889.D	12/05/09	11:07	01:30	(unrelated sample)
ZZZZZZ	J051890.D	12/05/09	11:30	01:53	(unrelated sample)
ZZZZZZ	J051891.D	12/05/09	11:53	02:16	(unrelated sample)
F69726-12	J051892.D	12/05/09	12:17	02:40	(used for QC only; not part of job F69760)
F69726-12MS	J051893.D	12/05/09	12:40	03:03	Matrix Spike
F69726-12MSD	J051894.D	12/05/09	13:03	03:26	Matrix Spike Duplicate
ZZZZZZ	J051895.D	12/05/09	13:26	03:49	(unrelated sample)
ZZZZZZ	J051898.D	12/05/09	14:36	04:59	(unrelated sample)
ZZZZZZ	J051899.D	12/05/09	14:59	05:22	(unrelated sample)
ZZZZZZ	J051901.D	12/05/09	15:45	06:08	(unrelated sample)
ZZZZZZ	J051902.D	12/05/09	16:08	06:31	(unrelated sample)
ZZZZZZ	J051903.D	12/05/09	16:31	06:54	(unrelated sample)
F69760-3	J051905.D	12/05/09	17:18	07:41	KW-TFS-TB-03-1109
F69760-4	J051906.D	12/05/09	17:41	08:04	KWTFS-SB101-GW-0307
F69760-5	J051907.D	12/05/09	18:04	08:27	KWTFS-SB108-GW-0307
F69760-6	J051908.D	12/05/09	18:27	08:50	KWTFS-SB114-GW-0307
F69760-7	J051909.D	12/05/09	18:50	09:13	KWTFS-SB129-GW-0307
F69760-8	J051910.D	12/05/09	19:13	09:36	KWTFS-SB132-GW-0307
F69760-9	J051911.D	12/05/09	19:36	09:59	KWTFS-SB134-GW-0307
F69760-10	J051912.D	12/05/09	19:59	10:22	KWTFS-SB147-GW-0307
ZZZZZZ	J051913.D	12/05/09	20:22	10:45	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3037-CC3020
Lab FileID: J051886.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\120509\J051886.D Vial: 1
Acq On : 5 Dec 2009 9:57 am Operator: KarenW
Sample : CC3020-4 Inst : MSVOA6
Misc : ms13327,vj3037,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	75	0.00	7.48
2		Dichlorodifluoromethane	0.134	0.134	0.0	72	0.00	2.74
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	37.920	5.2	72	0.02	2.90
4	C	Vinyl Chloride	40.000	34.315	14.2	66	0.00	3.03
5		Bromomethane	40.000	36.843	7.9	70	0.01	3.41
6		Chloroethane	40.000	39.318	1.7	74	0.00	3.55
			AvgRF	CCRF	%Dev			
7		Trichlorofluoromethane	0.346	0.354	-2.3	76	0.00	3.69
8		Ethyl Ether	0.245	0.259	-5.7	82	0.00	4.00
			Amount	Calc.	%Drift			
9		1,2-Dichlorotrifluoroetha	40.000	43.268	-8.2	83	0.00	4.22
			AvgRF	CCRF	%Dev			
10	C	1,1-Dichloroethene	0.402	0.410	-2.0	81	0.00	4.25
11		Freon 113	0.224	0.221	1.3	77	0.00	4.33
			Amount	Calc.	%Drift			
12		Carbon Disulfide	40.000	40.410	-1.0	77	0.00	4.32
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.484	0.426	12.0	70	0.00	4.42
			Amount	Calc.	%Drift			
14		Methylene Chloride	40.000	42.234	-5.6	80	0.00	4.86
15		Acetone	200.000	209.315	-4.7	82	0.00	4.89
			AvgRF	CCRF	%Dev			
16		Methyl acetate	0.040	0.041	-2.5	82	0.00	5.00
17		trans-1,2-Dichloroethene	0.423	0.408	3.5	78	0.00	5.03
18		Hexane	0.254	0.268	-5.5	83	0.00	5.09
19		Methyl Tert Butyl Ether	0.688	0.656	4.7	74	0.00	5.14
20		Di-isopropyl ether	0.926	0.993	-7.2	84	0.00	5.50
21	P	1,1-Dichloroethane	0.504	0.508	-0.8	80	0.00	5.66
22		Acrylonitrile	0.094	0.102	-8.5	81	0.00	5.69
23		ETBE	0.833	0.856	-2.8	78	0.00	5.88
24		Vinyl acetate	0.234	0.290	-23.9#	91	0.00	5.86
25		cis-1,2-Dichloroethene	0.292	0.304	-4.1	82	0.00	6.21
26		2,2-Dichloropropane	0.347	0.336	3.2	76	0.00	6.35

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3037-CC3020
Lab FileID: J051886.D

27		Bromochloromethane	0.153	0.160	-4.6	82	0.00	6.42
28		Cyclohexane	0.456	0.464	-1.8	79	0.00	6.47
29	C	Chloroform	0.466	0.466	0.0	81	0.00	6.47
			Amount	Calc.	%Drift			
30		Tetrahydrofuran	40.000	47.879	-19.7	90	0.00	6.64
			AvgRF	CCRF	%Dev			
31	S	Dibromofluoromethane	0.296	0.292	1.4	75	0.00	6.66
32		Carbon Tetrachloride	0.293	0.309	-5.5	80	0.00	6.66
33		1,1,1-Trichloroethane	0.361	0.357	1.1	78	0.00	6.72
34		2-Butanone	0.108	0.117	-8.3	86	0.00	6.75
35		1,1-Dichloropropene	0.331	0.338	-2.1	81	0.00	6.83
36		Benzene	0.912	0.954	-4.6	83	0.00	7.08
37		TAME	0.658	0.663	-0.8	78	0.00	7.17
38	S	1,2-Dichloroethane-d4	0.331	0.323	2.4	74	0.00	7.20
39		1,2-Dichloroethane	0.345	0.354	-2.6	82	0.00	7.26
40		Trichloroethene	0.254	0.267	-5.1	85	0.00	7.65
41		Methylcyclohexane	0.408	0.425	-4.2	80	0.00	7.68
42		Dibromomethane	0.157	0.171	-8.9	86	0.00	8.07
43	C	1,2-Dichloropropane	0.269	0.295	-9.7	86	0.00	8.17
44		Bromodichloromethane	0.304	0.346	-13.8	86	0.00	8.21
45		2-Chloroethyl vinyl ether	0.146	0.159	-8.9	81	0.00	8.73
46		cis-1,3-Dichloropropene	0.359	0.410	-14.2	85	0.00	8.82
47	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00	10.56
48	S	Toluene-d8	1.272	1.221	4.0	78	0.00	9.02
			Amount	Calc.	%Drift			
49	C	Toluene	40.000	42.251	-5.6	86	0.00	9.07
50		2-Nitropropane	200.000	340.925	-70.5#*	153	0.00	9.27
			AvgRF	CCRF	%Dev			
51		4-Methyl-2-pentanone	0.290	0.319	-10.0	90	0.00	9.40
52		trans-1,3-Dichloropropene	0.432	0.474	-9.7	88	0.00	9.45
53		Tetrachloroethene	0.378	0.368	2.6	83	0.00	9.47
54		1,1,2-Trichloroethane	0.248	0.261	-5.2	87	0.00	9.62
55		Dibromochloromethane	0.307	0.351	-14.3	90	0.00	9.81
56		1,3-Dichloropropane	0.476	0.497	-4.4	87	0.00	9.90
57		1,2-Dibromoethane	0.304	0.317	-4.3	86	0.00	10.07
58		2-hexanone	0.193	0.221	-14.5	93	0.00	10.22
59		1-Chlorohexane	0.437	0.462	-5.7	88	0.00	10.53
			Amount	Calc.	%Drift			
60	C	Ethylbenzene	40.000	43.271	-8.2	87	0.00	10.59
			AvgRF	CCRF	%Dev			
61	P	Chlorobenzene	0.885	0.914	-3.3	87	0.00	10.58
62		1,1,1,2-Tetrachloroethane	0.324	0.354	-9.3	87	0.00	10.64
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	86.701	-8.4	87	0.00	10.73
			AvgRF	CCRF	%Dev			
64		o-Xylene	1.076	1.116	-3.7	84	0.00	11.16
65		Styrene	0.861	0.966	-12.2	87	0.00	11.21
			Amount	Calc.	%Drift			
66	P	Bromoform	40.000	43.555	-8.9	94	0.00	11.26

5.7.6

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Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3037-CC3020
Lab FileID: J051886.D

			AvgRF	CCRF	%Dev			
67		Isopropylbenzene	1.186	1.246	-5.1	85	0.00	11.47
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	12.93
69	S	4-Bromofluorobenzene	0.830	0.825	0.6	78	0.00	11.77
70		n-Propylbenzene	2.483	2.707	-9.0	88	0.00	11.89
71		Bromobenzene	0.705	0.745	-5.7	86	0.00	11.90
72	P	1,1,2,2-Tetrachloroethane	0.600	0.640	-6.7	86	0.00	11.95
73		1,3,5-Trimethylbenzene	1.794	1.954	-8.9	87	0.00	12.08
74		2-Chlorotoluene	1.730	1.845	-6.6	87	0.00	12.08
			Amount	Calc.	%Drift			
75		trans-1,4-Dichloro-2-Bute	40.000	42.921	-7.3	86	0.00	12.13
			AvgRF	CCRF	%Dev			
76		1,2,3-Trichloropropane	0.185	0.195	-5.4	87	0.00	12.11
77		Cyclohexanone	0.020	0.020	0.0	78	0.00	12.16
78		4-Chlorotoluene	1.570	1.680	-7.0	86	0.00	12.24
79		tert-Butylbenzene	1.017	1.098	-8.0	87	0.00	12.42
80		1,2,4-Trimethylbenzene	1.853	2.002	-8.0	86	0.00	12.49
81		sec-Butylbenzene	2.286	2.466	-7.9	87	0.00	12.61
82		4-Isopropyltoluene	1.952	2.119	-8.6	86	0.00	12.75
83		1,3-Dichlorobenzene	1.204	1.287	-6.9	86	0.00	12.86
84		1,4-Dichlorobenzene	1.261	1.334	-5.8	86	0.00	12.95
85		n-Butylbenzene	1.174	1.297	-10.5	86	0.00	13.18
86		Benzyl Chloride	0.253	0.299	-18.2	87	0.00	13.18
87		1,2-Dichlorobenzene	1.151	1.233	-7.1	86	0.00	13.38
88		1,2-Dibromo-3-Chloropropa	0.103	0.103	0.0	78	0.00	14.13
89		Hexachlorobutadiene	0.446	0.439	1.6	83	0.00	14.71
90		1,2,4-Trichlorobenzene	0.820	0.860	-4.9	83	0.00	14.74
91		Naphthalene	1.532	1.640	-7.0	84	0.00	15.02
92		1,2,3-Trichlorobenzene	0.749	0.778	-3.9	83	0.00	15.19
93	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	71	-0.01	5.11
			Amount	Calc.	%Drift			
94		acrolein	200.000	338.412	-69.2#	114	0.00	4.59
95		Tert Butyl Alcohol	400.000	453.523	-13.4	79	0.00	5.18
			AvgRF	CCRF	%Dev			
96		tert Amyl alcohol	0.707	0.795	-12.4	80	0.00	7.31
97		1,4-Dioxane	0.093	0.107	-15.1	83	0.00	8.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0

J051527.D 8260-J.M Mon Dec 07 09:04:14 2009

5.7.6 5

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ3037-MB	J051888.D	1	12/05/09	KW	n/a	n/a	VJ3037

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-3, F69760-4, F69760-5, F69760-6, F69760-7, F69760-8, F69760-9, F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ3037-MB	J051888.D	1	12/05/09	KW	n/a	n/a	VJ3037

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-3, F69760-4, F69760-5, F69760-6, F69760-7, F69760-8, F69760-9, F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3039-BFB	Injection Date:	12/08/09
Lab File ID:	J051951.D	Injection Time:	09:08
Instrument ID:	GCMSJ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15901	22.4		Pass
75	30.0 - 60.0% of mass 95	32410	45.7		Pass
95	Base peak, 100% relative abundance	70901	100.0		Pass
96	5.0 - 9.0% of mass 95	5720	8.1		Pass
173	Less than 2.0% of mass 174	502	0.71	(0.88) [a]	Pass
174	50.0 - 100.0% of mass 95	56957	80.3		Pass
175	5.0 - 9.0% of mass 174	4808	6.8	(8.4) [a]	Pass
176	95.0 - 101.0% of mass 174	55554	78.4	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4338	6.1	(7.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ3039-CC3020	J051952.D	12/08/09	09:27	00:19	Continuing cal 4
VJ3039-MB	J051954.D	12/08/09	10:17	01:09	Method Blank
VJ3039-BS	J051955.D	12/08/09	10:41	01:33	Blank Spike
F69760-10	J051956.D	12/08/09	11:04	01:56	KWTFS-SB147-GW-0307
ZZZZZZ	J051957.D	12/08/09	11:27	02:19	(unrelated sample)
ZZZZZZ	J051958.D	12/08/09	11:50	02:42	(unrelated sample)
ZZZZZZ	J051959.D	12/08/09	12:13	03:05	(unrelated sample)
ZZZZZZ	J051960.D	12/08/09	12:36	03:28	(unrelated sample)
ZZZZZZ	J051961.D	12/08/09	12:58	03:50	(unrelated sample)
ZZZZZZ	J051962.D	12/08/09	13:22	04:14	(unrelated sample)
ZZZZZZ	J051963.D	12/08/09	13:45	04:37	(unrelated sample)
ZZZZZZ	J051964.D	12/08/09	14:08	05:00	(unrelated sample)
ZZZZZZ	J051965.D	12/08/09	14:31	05:23	(unrelated sample)
ZZZZZZ	J051966.D	12/08/09	14:54	05:46	(unrelated sample)
ZZZZZZ	J051967.D	12/08/09	15:17	06:09	(unrelated sample)
F69793-1	J051968.D	12/08/09	15:40	06:32	(used for QC only; not part of job F69760)
F69793-1MS	J051969.D	12/08/09	16:03	06:55	Matrix Spike
F69793-1MSD	J051970.D	12/08/09	16:26	07:18	Matrix Spike Duplicate
ZZZZZZ	J051971.D	12/08/09	16:49	07:41	(unrelated sample)
ZZZZZZ	J051972.D	12/08/09	17:12	08:04	(unrelated sample)
ZZZZZZ	J051973.D	12/08/09	17:35	08:27	(unrelated sample)
ZZZZZZ	J051974.D	12/08/09	17:58	08:50	(unrelated sample)
ZZZZZZ	J051975.D	12/08/09	18:21	09:13	(unrelated sample)
ZZZZZZ	J051976.D	12/08/09	18:44	09:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VJ3039-BFB	Injection Date:	12/08/09
Lab File ID:	J051951.D	Injection Time:	09:08
Instrument ID:	GCMSJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J051977.D	12/08/09	19:07	09:59	(unrelated sample)
ZZZZZZ	J051978.D	12/08/09	19:30	10:22	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3039-CC3020
Lab FileID: J051952.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\120809\J051952.D Vial: 1
Acq On : 8 Dec 2009 9:27 am Operator: KarenW
Sample : CC3020-4 Inst : MSVOA6
Misc : ms13346,vj3039,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	70	0.00	7.48
2		Dichlorodifluoromethane	0.134	0.211	-57.5#	105	0.00	2.74
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	50.583	-26.5#	85	0.02	2.90
4	C	Vinyl Chloride	40.000	42.269	-5.7	73	0.00	3.03
5		Bromomethane	40.000	45.613	-14.0	77	0.01	3.41
6		Chloroethane	40.000	47.727	-19.3	80	0.01	3.56
			AvgRF	CCRF	%Dev			
7		Trichlorofluoromethane	0.346	0.422	-22.0#	84	0.00	3.69
8		Ethyl Ether	0.245	0.252	-2.9	74	0.00	4.00
			Amount	Calc.	%Drift			
9		1,2-Dichlorotrifluoroetha	40.000	43.925	-9.8	77	0.00	4.22
			AvgRF	CCRF	%Dev			
10	C	1,1-Dichloroethene	0.402	0.411	-2.2	75	0.00	4.25
11		Freon 113	0.224	0.213	4.9	69	0.00	4.33
			Amount	Calc.	%Drift			
12		Carbon Disulfide	40.000	39.356	1.6	69	0.00	4.32
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.484	0.421	13.0	64	0.00	4.42
			Amount	Calc.	%Drift			
14		Methylene Chloride	40.000	42.668	-6.7	75	0.00	4.86
15		Acetone	200.000	199.631	0.2	72	0.00	4.89
			AvgRF	CCRF	%Dev			
16		Methyl acetate	0.040	0.041	-2.5	74	0.00	5.00
17		trans-1,2-Dichloroethene	0.423	0.401	5.2	71	0.00	5.03
18		Hexane	0.254	0.262	-3.1	75	0.00	5.09
19		Methyl Tert Butyl Ether	0.688	0.652	5.2	68	0.00	5.14
20		Di-isopropyl ether	0.926	0.977	-5.5	76	0.00	5.51
21	P	1,1-Dichloroethane	0.504	0.506	-0.4	73	0.00	5.66
22		Acrylonitrile	0.094	0.083	11.7	61	0.00	5.70
23		ETBE	0.833	0.837	-0.5	71	0.00	5.88
24		Vinyl acetate	0.234	0.248	-6.0	72	0.00	5.86
25		cis-1,2-Dichloroethene	0.292	0.305	-4.5	76	0.00	6.21
26		2,2-Dichloropropane	0.347	0.334	3.7	70	0.00	6.35

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3039-CC3020
Lab FileID: J051952.D

27		Bromochloromethane	0.153	0.158	-3.3	75	0.00	6.42
28		Cyclohexane	0.456	0.447	2.0	70	0.00	6.47
29	C	Chloroform	0.466	0.468	-0.4	75	0.00	6.47
			Amount	Calc.	%Drift			
30		Tetrahydrofuran	40.000	45.184	-13.0	79	0.00	6.65
			AvgRF	CCRF	%Dev			
31	S	Dibromofluoromethane	0.296	0.293	1.0	69	0.00	6.66
32		Carbon Tetrachloride	0.293	0.311	-6.1	74	0.00	6.67
33		1,1,1-Trichloroethane	0.361	0.357	1.1	72	0.00	6.73
34		2-Butanone	0.108	0.113	-4.6	77	0.00	6.75
35		1,1-Dichloropropene	0.331	0.334	-0.9	74	0.00	6.83
36		Benzene	0.912	0.938	-2.9	75	0.00	7.08
37		TAME	0.658	0.648	1.5	70	0.00	7.17
38	S	1,2-Dichloroethane-d4	0.331	0.319	3.6	67	0.00	7.20
39		1,2-Dichloroethane	0.345	0.338	2.0	72	0.00	7.26
40		Trichloroethene	0.254	0.257	-1.2	76	0.00	7.65
41		Methylcyclohexane	0.408	0.413	-1.2	72	0.00	7.68
42		Dibromomethane	0.157	0.166	-5.7	77	0.00	8.07
43	C	1,2-Dichloropropane	0.269	0.282	-4.8	76	0.00	8.16
44		Bromodichloromethane	0.304	0.334	-9.9	76	0.00	8.21
45		2-Chloroethyl vinyl ether	0.146	0.157	-7.5	74	0.00	8.73
46		cis-1,3-Dichloropropene	0.359	0.392	-9.2	75	0.00	8.82
47	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00	10.56
48	S	Toluene-d8	1.272	1.244	2.2	70	0.00	9.02
			Amount	Calc.	%Drift			
49	C	Toluene	40.000	42.459	-6.1	76	0.00	9.07
50		2-Nitropropane	200.000	344.951	-72.5#	137	0.00	9.27
			AvgRF	CCRF	%Dev			
51		4-Methyl-2-pentanone	0.290	0.327	-12.8	81	0.00	9.40
52		trans-1,3-Dichloropropene	0.432	0.457	-5.8	75	0.00	9.45
53		Tetrachloroethene	0.378	0.366	3.2	73	0.00	9.47
54		1,1,2-Trichloroethane	0.248	0.264	-6.5	77	0.00	9.62
55		Dibromochloromethane	0.307	0.354	-15.3	80	0.00	9.81
56		1,3-Dichloropropane	0.476	0.487	-2.3	75	0.00	9.90
57		1,2-Dibromoethane	0.304	0.317	-4.3	76	0.00	10.06
58		2-hexanone	0.193	0.218	-13.0	81	0.00	10.22
59		1-Chlorohexane	0.437	0.456	-4.3	77	0.00	10.53
			Amount	Calc.	%Drift			
60	C	Ethylbenzene	40.000	42.830	-7.1	76	0.00	10.59
			AvgRF	CCRF	%Dev			
61	P	Chlorobenzene	0.885	0.911	-2.9	76	0.00	10.58
62		1,1,1,2-Tetrachloroethane	0.324	0.361	-11.4	78	0.00	10.64
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	87.711	-9.6	77	0.00	10.73
			AvgRF	CCRF	%Dev			
64		o-Xylene	1.076	1.133	-5.3	75	0.00	11.16
65		Styrene	0.861	0.971	-12.8	77	0.00	11.21
			Amount	Calc.	%Drift			
66	P	Bromoform	40.000	44.521	-11.3	85	0.00	11.26

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VJ3039-CC3020
Lab FileID: J051952.D

			AvgRF	CCRF	%Dev			
67		Isopropylbenzene	1.186	1.253	-5.6	75	0.00	11.47
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	70	0.00	12.93
69	S	4-Bromofluorobenzene	0.830	0.802	3.4	69	0.00	11.77
70		n-Propylbenzene	2.483	2.697	-8.6	79	0.00	11.89
71		Bromobenzene	0.705	0.745	-5.7	77	0.00	11.90
72	P	1,1,2,2-Tetrachloroethane	0.600	0.663	-10.5	81	0.00	11.94
73		1,3,5-Trimethylbenzene	1.794	1.923	-7.2	77	0.00	12.08
74		2-Chlorotoluene	1.730	1.852	-7.1	78	0.00	12.08
			Amount	Calc.	%Drift			
75		trans-1,4-Dichloro-2-Bute	40.000	50.274	-25.7#	90	0.00	12.13
			AvgRF	CCRF	%Dev			
76		1,2,3-Trichloropropane	0.185	0.196	-5.9	79	0.00	12.11
77		Cyclohexanone	0.020	0.016	20.0	55	0.00	12.16
78		4-Chlorotoluene	1.570	1.679	-6.9	78	0.00	12.24
79		tert-Butylbenzene	1.017	1.063	-4.5	76	0.00	12.42
80		1,2,4-Trimethylbenzene	1.853	2.004	-8.1	77	0.00	12.49
81		sec-Butylbenzene	2.286	2.421	-5.9	77	0.00	12.61
82		4-Isopropyltoluene	1.952	2.098	-7.5	77	0.00	12.75
83		1,3-Dichlorobenzene	1.204	1.305	-8.4	79	0.00	12.86
84		1,4-Dichlorobenzene	1.261	1.349	-7.0	78	0.00	12.95
85		n-Butylbenzene	1.174	1.309	-11.5	79	0.00	13.18
86		Benzyl Chloride	0.253	0.311	-22.9#	81	0.00	13.18
87		1,2-Dichlorobenzene	1.151	1.247	-8.3	78	0.00	13.38
88		1,2-Dibromo-3-Chloropropa	0.103	0.108	-4.9	73	0.00	14.13
89		Hexachlorobutadiene	0.446	0.439	1.6	75	0.00	14.71
90		1,2,4-Trichlorobenzene	0.820	0.874	-6.6	76	0.00	14.74
91		Naphthalene	1.532	1.716	-12.0	79	0.00	15.02
92		1,2,3-Trichlorobenzene	0.749	0.797	-6.4	77	0.00	15.18
93	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	65	0.00	5.11
			Amount	Calc.	%Drift			
94		acrolein	200.000	118.229	40.9#	38	0.01	4.59
95		Tert Butyl Alcohol	400.000	441.212	-10.3	71	0.00	5.20
			AvgRF	CCRF	%Dev			
96		tert Amyl alcohol	0.707	0.778	-10.0	72	0.00	7.32
97		1,4-Dioxane	0.093	0.100	-7.5	71	0.00	8.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0

J051527.D 8260-J.M Tue Dec 08 14:47:17 2009

5.7.7 5

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ3039-MB	J051954.D	1	12/08/09	KW	n/a	n/a	VJ3039

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ3039-MB	J051954.D	1	12/08/09	KW	n/a	n/a	VJ3039

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	92%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	105%	84-120%

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1077-ICC1077
Lab FileID: F039271.D

Response Factor Report MSVOA9

Method : C:\MSDCHEM\1\METHODS\8260FW.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Dec 02 14:33:57 2009
Response via : Initial Calibration

Calibration Files
1 =F039268.D 2 =F039269.D 3 =F039270.D 4 =F039271.D
5 =F039272.D 6 =F039273.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.405	0.381	0.534	0.527	0.501	0.456	0.467	13.79
3)	P	Chloromethane	0.370	0.291	0.370	0.387	0.389	0.363	0.362	10.00
4)	C	Vinyl Chloride	0.474	0.319	0.419	0.431	0.416	0.389	0.408	12.64
5)		Bromomethane	0.539	0.322	0.372	0.382	0.361	0.324	0.383	20.97
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9921								
		Response Ratio = 0.00000 + 0.34107 *A								
6)		Chloroethane	0.158	0.196	0.234	0.241	0.228	0.215	0.212	14.62
7)		Trichlorofluorometh	0.613	0.523	0.780	0.742	0.690	0.606	0.659	14.53
8)		Ethyl Ether	0.277	0.252	0.259	0.255	0.254	0.245	0.257	4.26
9)		1,2-Dichlorotrifluo	0.306	0.282	0.393	0.366	0.339	0.315	0.334	12.30
10)	C	1,1-Dichloroethene	0.534	0.422	0.586	0.557	0.513	0.481	0.515	11.32
11)		Freon 113	0.240	0.203	0.277	0.255	0.236	0.216	0.238	11.21
12)		Carbon Disulfide	1.239	0.844	1.153	1.109	1.000	1.025	1.062	12.96
13)		Iodomethane	0.591	0.534	0.641	0.634	0.614	0.615	0.605	6.40
14)		Allyl chloride	0.321	0.273	0.365	0.374	0.366	0.370	0.345	11.60
15)		Methylene Chloride	0.492	0.375	0.417	0.409	0.385	0.380	0.410	10.68
16)		Acetone	0.106	0.094	0.095	0.092	0.088	0.086	0.093	7.54
17)		Methyl acetate	0.192	0.172	0.172	0.167	0.166	0.165	0.172	5.84
18)		trans-1,2-Dichloroe	0.530	0.435	0.545	0.529	0.508	0.508	0.509	7.71
19)		Hexane	0.186	0.147	0.220	0.214	0.203	0.201	0.195	13.52
20)		Methyl Tert Butyl E	1.112	1.105	1.205	1.192	1.115	1.088	1.136	4.35
21)		Acetonitrile	0.021	0.023	0.022	0.020	0.020	0.022	0.021	5.65
22)		Di-isopropyl ether	0.670	0.693	0.829	0.853	0.842	0.857	0.791	10.78
23)		Chloroprene	0.274	0.243	0.374	0.384	0.391	0.385	0.342	19.18
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.38618 *A								
24)	P	1,1-Dichloroethane	0.578	0.584	0.695	0.696	0.654	0.649	0.643	8.04
25)		Acrylonitrile	0.081	0.083	0.086	0.086	0.086	0.085	0.085	2.55
26)		ETBE	0.861	0.985	1.141	1.131	1.073	1.031	1.037	10.08
27)		Vinyl acetate	0.236	0.276	0.316	0.321	0.303	0.288	0.290	10.78
28)		cis-1,2-Dichloroeth	0.358	0.317	0.396	0.403	0.393	0.401	0.378	9.02
29)		2,2-Dichloropropane	0.605	0.583	0.732	0.703	0.652	0.605	0.647	9.27
30)		Bromochloromethane	0.148	0.187	0.213	0.213	0.209	0.212	0.197	13.32
31)		Cyclohexane	0.231	0.240	0.400	0.398	0.393	0.376	0.340	23.86
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9983								
		Response Ratio = 0.00000 + 0.38327 *A								
32)	C	Chloroform	0.800	0.739	0.862	0.844	0.802	0.772	0.803	5.63
33)		Ethyl acetate	0.225	0.239	0.262	0.260	0.254	0.245	0.248	5.67
34)		Tetrahydrofuran	0.057	0.062	0.071	0.068	0.069	0.072	0.066	8.91
35)	S	Dibromofluoromethan	0.306	0.314	0.299	0.300	0.297	0.286	0.300	3.06
36)		Carbon Tetrachlorid	0.624	0.628	0.858	0.832	0.792	0.750	0.747	13.47
37)		1,1,1-Trichloroetha	0.738	0.656	0.851	0.817	0.782	0.737	0.764	9.02

NOT TARGET

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1077-ICC1077
Lab FileID: F039271.D

38)		2-Butanone	0.111	0.113	0.117	0.117	0.119	0.117	0.116	2.76
39)		1,1-Dichloropropene	0.456	0.387	0.575	0.570	0.558	0.543	0.515	14.85
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9990								
		Response Ratio = 0.00000 + 0.55055 *A								
40)		Propionitrile	0.033	0.035	0.035	0.036	0.036	0.035	0.035	2.45
41)		Methacrylonitrile	0.175	0.186	0.200	0.195	0.192	0.180	0.188	5.15
42)		Benzene	1.324	1.272	1.529	1.482	1.412	1.375	1.399	6.89
43)		TAME	1.055	1.187	1.315	1.294	1.227	1.167	1.207	7.83
44)	S	1,2-Dichloroethane-	0.441	0.450	0.444	0.430	0.406	0.380	0.425	6.34
45)		1,2-Dichloroethane	0.670	0.680	0.736	0.718	0.671	0.635	0.685	5.32
46)		Trichloroethene	0.425	0.324	0.431	0.431	0.423	0.417	0.408	10.15
47)		Methylcyclohexane	0.405	0.348	0.581	0.581	0.581	0.552	0.508	20.48
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9981								
		Response Ratio = 0.00000 + 0.56343 *A								
48)		Dibromomethane	0.284	0.278	0.290	0.288	0.281	0.270	0.282	2.52
49)	C	1,2-Dichloropropane	0.286	0.297	0.351	0.360	0.349	0.347	0.332	9.55
50)		Bromodichloromethan	0.579	0.585	0.689	0.696	0.668	0.646	0.644	7.92
51)		Methyl methacrylate	0.171	0.191	0.252	0.269	0.276	0.269	0.238	19.05
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 0.27037 *A								
52)		2-Chloroethyl vinyl	0.155	0.203	0.242	0.248	0.240	0.229	0.220	16.08
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9982								
		Response Ratio = 0.00000 + 0.23454 *A								
53)		cis-1,3-Dichloropro	0.556	0.616	0.735	0.756	0.733	0.715	0.685	11.69
54)	I	Chlorobenzene-d5	----------ISTD----------							
55)	S	Toluene-d8	1.183	1.178	1.144	1.140	1.157	1.170	1.162	1.55
56)	C	Toluene	1.691	1.494	1.838	1.805	1.769	1.778	1.729	7.23
57)		2-Nitropropane	0.102	0.109	0.129	0.130	0.129	0.123	0.120	9.94
58)		4-Methyl-2-pentanon	0.258	0.288	0.312	0.305	0.300	0.291	0.292	6.51
59)		trans-1,3-Dichlorop	0.606	0.656	0.771	0.764	0.743	0.728	0.711	9.27
60)		Tetrachloroethene	0.569	0.433	0.565	0.576	0.587	0.608	0.556	11.24
61)		Ethyl methacrylate	0.364	0.420	0.529	0.557	0.568	0.557	0.499	17.24
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.55916 *A								
62)		1,1,2-Trichloroetha	0.312	0.315	0.349	0.341	0.339	0.338	0.332	4.55
63)		Dibromochloromethan	0.451	0.475	0.546	0.552	0.552	0.551	0.521	8.80
64)		1,3-Dichloropropane	0.616	0.648	0.747	0.741	0.732	0.718	0.700	7.79
65)		1,2-Dibromoethane	0.376	0.392	0.441	0.441	0.440	0.442	0.422	7.07
66)		2-hexanone	0.160	0.194	0.229	0.226	0.226	0.221	0.210	13.04
67)		1-Chlorohexane	0.374	0.366	0.593	0.596	0.600	0.596	0.521	22.46
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.59683 *A								
68)	C	Ethylbenzene	2.138	1.855	2.330	2.295	2.220	2.157	2.166	7.82
69)	P	Chlorobenzene	1.205	1.082	1.319	1.287	1.270	1.252	1.236	6.84
70)		1,1,1,2-Tetrachloro	0.475	0.448	0.543	0.544	0.529	0.523	0.510	7.75
71)		m,p-Xylene	1.499	1.415	1.850	1.814	1.732	1.652	1.660	10.48
72)		o-Xylene	1.338	1.397	1.928	1.929	1.882	1.835	1.718	15.98
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9991								
		Response Ratio = 0.00000 + 1.85910 *A								
73)		Styrene	0.895	1.046	1.441	1.440	1.439	1.411	1.279	19.06
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 1.42211 *A								

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1077-ICC1077
Lab FileID: F039271.D

74)	P	Bromoform	0.303	0.331	0.387	0.394	0.397	0.398	0.368	11.14
75)		Isopropylbenzene	1.452	1.388	2.075	2.078	2.033	1.974	1.833	17.62
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9989								
		Response Ratio = 0.00000 + 2.00249 *A								
76)	I	1,4-Dichlorobenzene-d ----------ISTD----------								
77)	S	4-Bromofluorobenzen	0.896	0.852	0.847	0.841	0.842	0.854	0.855	2.43
78)		cis-1,4-Dichloro-2-	0.172	0.155	0.187	0.206	0.214	0.217	0.192	13.10
79)		n-Propylbenzene	3.842	3.016	4.166	4.055	3.909	3.822	3.802	10.70
80)		Bromobenzene	0.919	0.818	0.941	0.953	0.940	0.953	0.921	5.62
81)	P	1,1,2,2-Tetrachloro	0.911	0.815	0.863	0.844	0.824	0.819	0.846	4.34
82)		1,3,5-Trimethylbenz	2.480	2.222	3.093	3.094	2.987	2.973	2.808	13.07
83)		2-Chlorotoluene	2.381	2.237	2.751	2.679	2.583	2.575	2.534	7.56
84)		trans-1,4-Dichloro-	0.157	0.132	0.171	0.183	0.186	0.189	0.170	12.96
85)		1,2,3-Trichloroprop	0.268	0.264	0.296	0.283	0.278	0.275	0.277	4.07
86)		Cyclohexanone	0.014	0.015	0.018	0.019	0.019	0.019	0.017	13.03
87)		4-Chlorotoluene	2.253	2.147	2.723	2.719	2.630	2.591	2.511	9.88
88)		tert-Butylbenzene	1.553	1.374	1.869	1.843	1.769	1.736	1.691	11.28
89)		1,2,4-Trimethylbenz	2.552	2.593	3.313	3.276	3.169	3.127	3.005	11.38
90)		Pentachloroethane	0.517	0.474	0.528	0.520	0.498	0.484	0.503	4.31
91)		sec-Butylbenzene	3.282	2.879	3.794	3.739	3.605	3.528	3.471	9.84
92)		4-Isopropyltoluene	2.494	2.154	3.129	3.118	3.046	3.003	2.824	14.32
93)		1,3-Dichlorobenzene	1.713	1.454	1.774	1.766	1.745	1.747	1.700	7.20
94)		1,4-Dichlorobenzene	2.012	1.628	1.844	1.822	1.802	1.802	1.818	6.75
95)		n-Butylbenzene	1.572	1.285	1.836	1.830	1.800	1.769	1.682	12.94
96)		Benzyl Chloride	0.313	0.326	0.395	0.395	0.390	0.388	0.368	10.23
97)		1,2-Dichlorobenzene	1.702	1.530	1.769	1.782	1.736	1.735	1.709	5.39
98)		1,2-Dibromo-3-Chlor	0.288	0.214	0.217	0.216	0.213	0.207	0.226	13.62
99)		Hexachlorobutadiene	1.036	0.464	0.584	0.587	0.582	0.571	0.637	31.55
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 0.57594 *A								
100)		1,2,4-Trichlorobenz	1.685	1.145	1.376	1.440	1.428	1.416	1.415	12.15
101)		Naphthalene	3.745	2.464	2.970	3.074	3.029	2.930	3.035	13.56
102)		1,2,3-Trichlorobenz	1.821	1.065	1.265	1.280	1.281	1.251	1.327	19.25
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9996								
		Response Ratio = 0.00000 + 1.26244 *A								
103)	I	Tert Butyl Alcohol-d1 ----------ISTD----------								
104)		Ethanol	0.402	0.302	0.333	0.320	0.317	0.314	0.331	10.81
105)		Acrolein	1.121	1.084	1.220	1.222	1.224	1.251	1.187	5.69
106)		Tert butyl alcohol	1.676	1.438	1.559	1.479	1.498	1.465	1.519	5.71
107)		Isobutyl alcohol	0.398	0.441	0.483	0.474	0.474	0.459	0.455	6.95
108)		Tert Amyl Alcohol	0.990	0.936	1.127	1.133	1.178	1.143	1.085	8.98
109)		1,4-Dioxane	0.108	0.111	0.152	0.151	0.161	0.159	0.140	17.25
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 0.15874 *A								

(#) = Out of Range

8260FW.M Thu Dec 03 10:13:10 2009

5.7.1

5

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VF1077-BFB	Injection Date:	12/02/09
Lab File ID:	F039267.D	Injection Time:	11:38
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11623	18.5		Pass
75	30.0 - 60.0% of mass 95	35213	56.0		Pass
95	Base peak, 100% relative abundance	62917	100.0		Pass
96	5.0 - 9.0% of mass 95	4119	6.5		Pass
173	Less than 2.0% of mass 174	136	0.22	(0.25) [a]	Pass
174	50.0 - 100.0% of mass 95	55240	87.8		Pass
175	5.0 - 9.0% of mass 174	4081	6.5	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	54626	86.8	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	3557	5.7	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF1077-IC1077	F039268.D	12/02/09	12:04	00:26	Initial cal 1
VF1077-IC1077	F039269.D	12/02/09	12:29	00:51	Initial cal 2
VF1077-IC1077	F039270.D	12/02/09	12:54	01:16	Initial cal 3
VF1077-ICC1077	F039271.D	12/02/09	13:19	01:41	Initial cal 4
VF1077-IC1077	F039272.D	12/02/09	13:44	02:06	Initial cal 5
VF1077-IC1077	F039273.D	12/02/09	14:09	02:31	Initial cal 6
VF1077-ICV1077	F039274.D	12/02/09	14:34	02:56	Initial cal verification 4
VF1077-BS	F039275.D	12/02/09	14:58	03:20	Blank Spike
VF1077-MB	F039276.D	12/02/09	15:24	03:46	Method Blank
F69658-39	F039277.D	12/02/09	15:49	04:11	(used for QC only; not part of job F69760)
F69658-39MS	F039278.D	12/02/09	16:23	04:45	Matrix Spike
F69658-39MSD	F039279.D	12/02/09	16:48	05:10	Matrix Spike Duplicate
ZZZZZZ	F039280.D	12/02/09	17:13	05:35	(unrelated sample)
ZZZZZZ	F039281.D	12/02/09	17:39	06:01	(unrelated sample)
ZZZZZZ	F039282.D	12/02/09	18:04	06:26	(unrelated sample)
ZZZZZZ	F039283.D	12/02/09	18:29	06:51	(unrelated sample)
ZZZZZZ	F039284.D	12/02/09	18:54	07:16	(unrelated sample)
ZZZZZZ	F039285.D	12/02/09	19:19	07:41	(unrelated sample)
ZZZZZZ	F039286.D	12/02/09	19:45	08:07	(unrelated sample)
ZZZZZZ	F039287.D	12/02/09	20:09	08:31	(unrelated sample)
ZZZZZZ	F039288.D	12/02/09	20:35	08:57	(unrelated sample)
ZZZZZZ	F039289.D	12/02/09	21:00	09:22	(unrelated sample)
ZZZZZZ	F039290.D	12/02/09	21:25	09:47	(unrelated sample)
ZZZZZZ	F039291.D	12/02/09	21:50	10:12	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VF1077-BFB	Injection Date:	12/02/09
Lab File ID:	F039267.D	Injection Time:	11:38
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F039292.D	12/02/09	22:15	10:37	(unrelated sample)
ZZZZZZ	F039293.D	12/02/09	22:41	11:03	(unrelated sample)
ZZZZZZ	F039294.D	12/02/09	23:05	11:27	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VF1079-BFB	Injection Date:	12/04/09
Lab File ID:	F039325.D	Injection Time:	09:43
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9453	20.5		Pass
75	30.0 - 60.0% of mass 95	27554	59.7		Pass
95	Base peak, 100% relative abundance	46173	100.0		Pass
96	5.0 - 9.0% of mass 95	3245	7.0		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	38096	82.5		Pass
175	5.0 - 9.0% of mass 174	2790	6.0	(7.3) [a]	Pass
176	95.0 - 101.0% of mass 174	36824	79.8	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	2660	5.8	(7.2) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF1079-CC1077	F039326.D	12/04/09	10:14	00:31	Continuing cal 4
VF1079-BS	F039327.D	12/04/09	10:55	01:12	Blank Spike
VF1079-MB	F039328.D	12/04/09	11:21	01:38	Method Blank
F69757-4	F039329.D	12/04/09	12:14	02:31	(used for QC only; not part of job F69760)
ZZZZZZ	F039330.D	12/04/09	12:39	02:56	(unrelated sample)
ZZZZZZ	F039331.D	12/04/09	13:04	03:21	(unrelated sample)
ZZZZZZ	F039332.D	12/04/09	13:30	03:47	(unrelated sample)
ZZZZZZ	F039333.D	12/04/09	13:55	04:12	(unrelated sample)
ZZZZZZ	F039334.D	12/04/09	14:21	04:38	(unrelated sample)
F69760-2	F039335.D	12/04/09	14:46	05:03	KWTFS-SB122-GW-0307
F69757-4MS	F039336.D	12/04/09	15:12	05:29	Matrix Spike
F69757-4MSD	F039337.D	12/04/09	15:37	05:54	Matrix Spike Duplicate
ZZZZZZ	F039338.D	12/04/09	16:03	06:20	(unrelated sample)
ZZZZZZ	F039339.D	12/04/09	16:28	06:45	(unrelated sample)
ZZZZZZ	F039340.D	12/04/09	16:53	07:10	(unrelated sample)
ZZZZZZ	F039341.D	12/04/09	17:18	07:35	(unrelated sample)
ZZZZZZ	F039342.D	12/04/09	17:44	08:01	(unrelated sample)
ZZZZZZ	F039344.D	12/04/09	18:35	08:52	(unrelated sample)
ZZZZZZ	F039345.D	12/04/09	19:00	09:17	(unrelated sample)
ZZZZZZ	F039346.D	12/04/09	19:25	09:42	(unrelated sample)
ZZZZZZ	F039347.D	12/04/09	19:50	10:07	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1079-CC1077
Lab FileID: F039326.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\120409\F039326.D Vial: 1
Acq On : 4 Dec 2009 10:14 am Operator: Logand
Sample : cc1077-4 Inst : MSVOA9
Misc : ms13218,vfl079,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260FW.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Dec 02 14:33:57 2009
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	78	0.00	10.34
2		Dichlorodifluoromethane	0.467	0.506	-8.4	75	0.00	4.28
3	P	Chloromethane	0.362	0.324	10.5	65	0.00	4.62
4	C	Vinyl Chloride	0.408	0.400	2.0	72	0.00	4.79
			Amount	Calc.	%Drift			
5		Bromomethane	40.000	49.767	-24.4#	86	0.00	5.35
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.212	0.256	-20.8#	83	0.00	5.56
7		Trichlorofluoromethane	0.659	0.861	-30.7#	90	0.00	5.76
8		Ethyl Ether	0.257	0.270	-5.1	82	0.00	6.17
9		1,2-Dichlorotrifluoroetha	0.334	0.414	-24.0#	88	0.00	6.43
10	C	1,1-Dichloroethene	0.515	0.611	-18.6	85	0.00	6.52
11		Freon 113	0.238	0.293	-23.1#	89	0.00	6.56
12		Carbon Disulfide	1.062	1.112	-4.7	78	0.00	6.63
13		Iodomethane	0.605	0.623	-3.0	76	0.00	6.76
14		Allyl chloride	0.345	0.352	-2.0	73	0.00	7.15
15		Methylene Chloride	0.410	0.430	-4.9	82	0.00	7.29
16		Acetone	0.093	0.096	-3.2	81	0.00	7.33
17		Methyl acetate	0.172	0.167	2.9	77	0.00	7.46
18		trans-1,2-Dichloroethene	0.509	0.558	-9.6	82	0.00	7.50
19		Hexane	0.195	0.208	-6.7	76	0.00	7.56
20		Methyl Tert Butyl Ether	1.136	1.224	-7.7	80	0.00	7.60
21		Acetonitrile	0.021	0.019	9.5	75	0.00	7.94
22		Di-isopropyl ether	0.791	0.807	-2.0	73	0.00	8.02
			Amount	Calc.	%Drift			
23		Chloroprene	40.000	40.941	-2.4	80	0.00	8.24
			AvgRF	CCRF	%Dev			
24	P	1,1-Dichloroethane	0.643	0.716	-11.4	80	0.00	8.27
25		Acrylonitrile	0.085	0.088	-3.5	79	0.00	8.31
26		ETBE	1.037	1.159	-11.8	80	0.00	8.47
27		Vinyl acetate	0.290	0.333	-14.8	81	0.00	8.48
28		cis-1,2-Dichloroethene	0.378	0.393	-4.0	76	0.00	8.91
29		2,2-Dichloropropane	0.647	0.789	-21.9#	87	0.00	9.07
30		Bromochloromethane	0.197	0.210	-6.6	76	0.00	9.16
			Amount	Calc.	%Drift			
31		Cyclohexane	40.000	38.273	4.3	72	0.01	9.21

5.7.3
5

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1079-CC1077
Lab FileID: F039326.D

			AvgRF	CCRF	%Dev			
32	C	Chloroform	0.803	0.895	-11.5	82	0.00	9.19
33		Ethyl acetate	0.248	0.232	6.5	69	0.00	9.25
34		Tetrahydrofuran	0.066	0.066	0.0	76	0.00	9.41
35	S	Dibromofluoromethane	0.300	0.310	-3.3	80	0.00	9.41
36		Carbon Tetrachloride	0.747	0.904	-21.0#	84	0.00	9.42
37		1,1,1-Trichloroethane	0.764	0.883	-15.6	84	0.00	9.50
38		2-Butanone	0.116	0.115	0.9	76	0.00	9.52
			Amount	Calc.	%Drift			
39		1,1-Dichloropropene	40.000	41.995	-5.0	79	0.00	9.61
			AvgRF	CCRF	%Dev			
40		Propionitrile	0.035	0.036	-2.9	78	0.00	9.88
41		Methacrylonitrile	0.188	0.212	-12.8	84	0.00	9.92
42		Benzene	1.399	1.517	-8.4	79	0.00	9.90
43		TAME	1.207	1.354	-12.2	81	0.00	9.95
44	S	1,2-Dichloroethane-d4	0.425	0.487	-14.6	88	0.00	10.04
45		1,2-Dichloroethane	0.685	0.818	-19.4	88	0.00	10.12
46		Trichloroethene	0.408	0.436	-6.9	79	0.00	10.53
			Amount	Calc.	%Drift			
47		Methylcyclohexane	40.000	39.290	1.8	74	0.00	10.55
			AvgRF	CCRF	%Dev			
48		Dibromomethane	0.282	0.302	-7.1	81	0.00	11.02
49	C	1,2-Dichloropropane	0.332	0.352	-6.0	76	0.00	11.12
50		Bromodichloromethane	0.644	0.752	-16.8	84	0.00	11.15
			Amount	Calc.	%Drift			
51		Methyl methacrylate	40.000	42.597	-6.5	83	0.00	11.22
52		2-Chloroethyl vinyl ether	200.000	213.081	-6.5	78	0.00	11.69
			AvgRF	CCRF	%Dev			
53		cis-1,3-Dichloropropene	0.685	0.788	-15.0	81	0.00	11.82
54	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00	13.73
55	S	Toluene-d8	1.162	1.090	6.2	78	0.00	12.04
56	C	Toluene	1.729	1.740	-0.6	79	0.00	12.09
57		2-Nitropropane	0.120	0.140	-16.7	88	0.00	12.34
58		4-Methyl-2-pentanone	0.292	0.300	-2.7	80	0.00	12.43
59		trans-1,3-Dichloropropene	0.711	0.791	-11.3	85	0.00	12.51
60		Tetrachloroethene	0.556	0.497	10.6	70	0.00	12.54
			Amount	Calc.	%Drift			
61		Ethyl methacrylate	40.000	40.187	-0.5	82	0.00	12.59
			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.332	0.335	-0.9	80	0.00	12.69
63		Dibromochloromethane	0.521	0.548	-5.2	81	0.00	12.92
64		1,3-Dichloropropane	0.700	0.727	-3.9	80	0.00	13.01
65		1,2-Dibromoethane	0.422	0.419	0.7	78	0.00	13.22
66		2-hexanone	0.210	0.222	-5.7	80	0.00	13.32
			Amount	Calc.	%Drift			
67		1-Chlorohexane	40.000	37.518	6.2	77	0.00	13.64
			AvgRF	CCRF	%Dev			
68	C	Ethylbenzene	2.166	2.267	-4.7	81	0.00	13.73
69	P	Chlorobenzene	1.236	1.244	-0.6	79	0.00	13.75

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1079-CC1077
Lab FileID: F039326.D

70		1,1,1,2-Tetrachloroethane	0.510	0.542	-6.3	81	0.00	13.80
71		m,p-Xylene	1.660	1.817	-9.5	82	0.00	13.87
			Amount	Calc.	%Drift			
72		o-Xylene	40.000	40.964	-2.4	81	0.00	14.35
73		Styrene	40.000	39.775	0.6	80	0.00	14.40
			AvgRF	CCRF	%Dev			
74	P	Bromoform	0.368	0.404	-9.8	84	0.00	14.49
			Amount	Calc.	%Drift			
75		Isopropylbenzene	40.000	40.787	-2.0	80	0.00	14.66
			AvgRF	CCRF	%Dev			
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	16.23
77	S	4-Bromofluorobenzene	0.855	0.844	1.3	83	0.00	15.02
78		cis-1,4-Dichloro-2-butene	0.192	0.272	-41.7#	109	0.00	15.04
79		n-Propylbenzene	3.802	3.961	-4.2	81	0.00	15.11
80		Bromobenzene	0.921	0.911	1.1	79	0.00	15.17
81	P	1,1,2,2-Tetrachloroethane	0.846	0.819	3.2	80	0.00	15.17
82		1,3,5-Trimethylbenzene	2.808	3.057	-8.9	82	0.00	15.29
83		2-Chlorotoluene	2.534	2.670	-5.4	83	0.00	15.33
84		trans-1,4-Dichloro-2-Bute	0.170	0.230	-35.3#	104	0.00	15.36
85		1,2,3-Trichloropropane	0.277	0.288	-4.0	84	0.00	15.36
86		Cyclohexanone	0.017	0.017	0.0	75	0.00	15.46
87		4-Chlorotoluene	2.511	2.709	-7.9	83	0.00	15.50
88		tert-Butylbenzene	1.691	1.875	-10.9	84	0.00	15.66
89		1,2,4-Trimethylbenzene	3.005	3.310	-10.1	84	0.00	15.73
90		Pentachloroethane	0.503	0.677	-34.6#	108	0.00	15.73
91		sec-Butylbenzene	3.471	3.624	-4.4	80	0.00	15.85
92		4-Isopropyltoluene	2.824	3.069	-8.7	82	0.00	15.98
93		1,3-Dichlorobenzene	1.700	1.710	-0.6	80	0.00	16.16
94		1,4-Dichlorobenzene	1.818	1.797	1.2	82	0.00	16.25
95		n-Butylbenzene	1.682	1.840	-9.4	83	0.00	16.44
96		Benzyl Chloride	0.368	0.412	-12.0	86	0.00	16.49
97		1,2-Dichlorobenzene	1.709	1.748	-2.3	81	0.00	16.72
98		1,2-Dibromo-3-Chloropropa	0.226	0.223	1.3	85	0.00	17.55
			Amount	Calc.	%Drift			
99		Hexachlorobutadiene	40.000	40.247	-0.6	82	0.00	18.20
			AvgRF	CCRF	%Dev			
100		1,2,4-Trichlorobenzene	1.415	1.408	0.5	81	0.00	18.28
101		Naphthalene	3.035	2.915	4.0	79	0.00	18.67
			Amount	Calc.	%Drift			
102		1,2,3-Trichlorobenzene	40.000	39.306	1.7	80	0.00	18.90
			AvgRF	CCRF	%Dev			
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	77	0.00	7.55
104		Ethanol	0.331	0.337	-1.8	81	0.00	6.18
105		Acrolein	1.187	1.805	-52.1#	113	0.00	6.96
106		Tert butyl alcohol	1.519	1.453	4.3	75	0.00	7.64
107		Isobutyl alcohol	0.455	0.493	-8.4	80	0.00	9.95
108		Tert Amyl Alcohol	1.085	1.115	-2.8	76	0.00	10.10
			Amount	Calc.	%Drift			
109		1,4-Dioxane	800.000	596.930	25.4#	60	0.00	11.35

5.7.3

5

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1079-CC1077
Lab FileID: F039326.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F039271.D 8260FW.M Mon Dec 07 11:48:46 2009

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1079-MB	F039328.D	1	12/04/09	LD	n/a	n/a	VF1079

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-2

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1079-MB	F039328.D	1	12/04/09	LD	n/a	n/a	VF1079

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-2

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VK1867-BFB	Injection Date:	12/01/09
Lab File ID:	K042872.D	Injection Time:	10:52
Instrument ID:	GCMSK		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17707	25.9		Pass
75	30.0 - 60.0% of mass 95	38946	57.0		Pass
95	Base peak, 100% relative abundance	68380	100.0		Pass
96	5.0 - 9.0% of mass 95	5138	7.5		Pass
173	Less than 2.0% of mass 174	60	0.09	(0.12) [a]	Pass
174	50.0 - 100.0% of mass 95	51830	75.8		Pass
175	5.0 - 9.0% of mass 174	4330	6.3	(8.4) [a]	Pass
176	95.0 - 101.0% of mass 174	49503	72.4	(95.5) [a]	Pass
177	5.0 - 9.0% of mass 176	3648	5.3	(7.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VK1867-IC1867	K042873.D	12/01/09	11:16	00:24	Initial cal 1
VK1867-IC1867	K042874.D	12/01/09	11:42	00:50	Initial cal 2
VK1867-IC1867	K042875.D	12/01/09	12:07	01:15	Initial cal 3
VK1867-IC1867	K042878.D	12/01/09	13:24	02:32	Initial cal 6
VK1867-ICV1867	K042879.D	12/01/09	13:49	02:57	Initial cal verification 3
VK1867-BS	K042880.D	12/01/09	14:15	03:23	Blank Spike
VK1867-ICC1867	K042881.D	12/01/09	14:40	03:48	Initial cal 4
VK1867-IC1867	K042882.D	12/01/09	15:06	04:14	Initial cal 5
VK1867-MB	K042883.D	12/01/09	15:31	04:39	Method Blank
ZZZZZZ	K042884.D	12/01/09	15:56	05:04	(unrelated sample)
ZZZZZZ	K042886.D	12/01/09	16:47	05:55	(unrelated sample)
ZZZZZZ	K042887.D	12/01/09	17:13	06:21	(unrelated sample)
ZZZZZZ	K042888.D	12/01/09	17:38	06:46	(unrelated sample)
F69625-7R	K042889.D	12/01/09	18:04	07:12	(used for QC only; not part of job F69760)
F69625-7RMS	K042890.D	12/01/09	18:29	07:37	Matrix Spike
F69625-7RMSD	K042891.D	12/01/09	18:55	08:03	Matrix Spike Duplicate
ZZZZZZ	K042892.D	12/01/09	19:21	08:29	(unrelated sample)
ZZZZZZ	K042893.D	12/01/09	19:46	08:54	(unrelated sample)
ZZZZZZ	K042894.D	12/01/09	20:12	09:20	(unrelated sample)
ZZZZZZ	K042895.D	12/01/09	20:38	09:46	(unrelated sample)
ZZZZZZ	K042896.D	12/01/09	21:03	10:11	(unrelated sample)
ZZZZZZ	K042897.D	12/01/09	21:29	10:37	(unrelated sample)

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1867-ICC1867
Lab FileID: K042881.D

Response Factor Report MSVOA2

Method : C:\MSDCHEM\2\METHODS\8260-K.M (RTE Integrator)
Title : SWA 5035/8260B
Last Update : Tue Dec 01 17:08:28 2009
Response via : Initial Calibration

Calibration Files
1 =K042873.D 2 =K042874.D 3 =K042875.D 4 =K042876.D
5 =K042882.D 6 =K042878.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.350	0.340	0.402	0.390	0.363	0.308	0.359	9.57
3)	P	Chloromethane	0.397	0.418	0.462	0.447	0.427	0.390	0.424	6.62
4)	C	Vinyl Chloride	0.391	0.384	0.418	0.419	0.390	0.348	0.392	6.67
5)		Bromomethane	0.171	0.191	0.198	0.182	0.157	0.131	0.172	14.25
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 0.22638 *A + -0.02355 *A^2								
6)		Chloroethane	0.165	0.162	0.188	0.176	0.166	0.140	0.166	9.77
7)		Trichlorofluorometh	0.428	0.399	0.452	0.446	0.415	0.362	0.417	8.02
8)		1,2-Dichloro-1,1,2-	0.364	0.385	0.432	0.426	0.406	0.351	0.394	8.37
9)		Ethyl Ether	0.246	0.246	0.314	0.296	0.299	0.283	0.280	10.22
10)		Freon 113	0.283	0.308	0.346	0.338	0.324	0.270	0.311	9.72
11)	C	1,1-Dichloroethene	0.543	0.535	0.609	0.601	0.584	0.509	0.564	7.13
12)		Acetone	0.117	0.110	0.146	0.118	0.124	0.116	0.122	10.37
13)		Iodomethane	0.468	0.427	0.505	0.512	0.500	0.449	0.477	7.22
14)		Carbon Disulfide	0.755	0.748	0.865	0.889	0.860	0.762	0.813	7.95
15)		Methyl acetate	0.216	0.213	0.309	0.253	0.262	0.251	0.250	14.01
16)		Methylene Chloride	1.550	0.790	0.722	0.736	0.668	0.534	0.833	43.39
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9930								
		Response Ratio = 0.00000 + 0.91359 *A + -0.09194 *A^2								
17)		Acrylonitrile	0.078	0.094	0.124	0.101	0.106	0.087	0.099	16.30
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9922								
		Response Ratio = 0.00000 + 0.12800 *A + -0.00193 *A^2								
18)		Methyl Tert Butyl E	0.938	0.894	1.113	1.008	1.020	0.959	0.988	7.75
19)		trans-1,2-Dichloroe	0.449	0.459	0.540	0.540	0.534	0.465	0.498	8.88
20)		Hexane	0.696	0.689	0.805	0.783	0.771	0.669	0.735	7.80
21)		Vinyl acetate	0.216	0.213	0.309	0.253	0.262	0.251	0.250	14.01
22)	P	1,1-Dichloroethane	0.599	0.577	0.695	0.676	0.675	0.536	0.626	10.34
23)		Di-isopropyl ether	1.200	1.227	1.445	1.467	1.465	1.350	1.359	8.89
24)		Ethyl tert-butyl Et	1.052	1.069	1.286	1.252	1.234	0.987	1.147	10.93
25)		2-Butanone	0.154	0.173	0.236	0.155	0.163	0.154	0.172	18.50
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9818								
		Response Ratio = 0.00000 + 0.15949 *A								
26)		cis-1,2-Dichloroeth	0.296	0.298	0.365	0.355	0.336	0.277	0.321	11.15
27)		2,2-Dichloropropane	0.358	0.341	0.390	0.356	0.371	0.261	0.346	12.89
28)		Bromochloromethane	0.129	0.154	0.190	0.150	0.159	0.144	0.154	13.27
29)	C	Chloroform	0.654	0.620	0.699	0.551	0.540	0.496	0.593	12.94
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9968								
		Response Ratio = 0.00000 + 0.66601 *A + -0.04278 *A^2								
30)		Tetrahydrofuran	0.056	0.067	0.102	0.068	0.071	0.064	0.071	22.45
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9850								

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1867-ICC1867
Lab FileID: K042881.D

Response Ratio = 0.00000 + 0.08788 *A + -0.00603 *A^2

31)	S	Dibromofluoromethan	0.286	0.290	0.349	0.296	0.292	0.286	0.300	8.16
32)		1,1,1-Trichloroetha	0.503	0.459	0.532	0.437	0.439	0.384	0.459	11.46
33)		Cyclohexane	0.591	0.561	0.634	0.533	0.522	0.438	0.546	12.24
34)		1,1-Dichloropropene	0.409	0.450	0.509	0.425	0.410	0.364	0.428	11.36
35)		Carbon Tetrachlorid	0.465	0.519	0.587	0.495	0.486	0.418	0.495	11.39
36)	S	1,2-Dichloroethane-	0.351	0.372	0.408	0.403	0.363	0.363	0.377	6.22
37)		1,2-Dichloroethane	0.497	0.498	0.511	0.470	0.471	0.459	0.484	4.21
38)		Benzene	1.187	1.149	1.129	1.095	1.067	0.987	1.102	6.37
39)		Tert-Amyl Methyl Et	0.778	0.841	0.869	0.815	0.829	0.802	0.822	3.83
40)		Trichloroethene	0.333	0.332	0.314	0.304	0.295	0.268	0.308	7.90
41)		Methylcyclohexane	0.471	0.511	0.483	0.479	0.457	0.400	0.467	7.99
42)	C	1,2-Dichloropropane	0.307	0.328	0.327	0.320	0.318	0.293	0.316	4.21
43)		Dibromomethane	0.186	0.181	0.203	0.188	0.190	0.180	0.188	4.41
44)		Bromodichloromethan	0.433	0.454	0.456	0.444	0.448	0.418	0.442	3.23
45)		2-Nitropropane	0.126	0.092	0.131	0.113	0.115	0.109	0.114	11.96
46)		2-Chloroethyl vinyl	0.100	0.103	0.138	0.126	0.132	0.125	0.121	12.91
47)		cis-1,3-Dichloropro	0.372	0.386	0.495	0.488	0.483	0.460	0.447	12.17
48)		4-Methyl-2-pentanon	0.306	0.289	0.403	0.332	0.347	0.326	0.334	11.81
49)	I	Chlorobenzene-d5	----------ISTD----------							
50)	S	Toluene-d8	1.603	1.402	1.424	1.452	1.455	1.529	1.478	5.07
51)	C	Toluene	2.077	1.665	1.611	1.602	1.606	1.491	1.675	12.22
52)		trans-1,3-Dichlorop	0.527	0.561	0.594	0.584	0.589	0.579	0.573	4.39
53)		1,1,2-Trichloroetha	0.352	0.326	0.331	0.299	0.304	0.295	0.318	6.95
54)		1,3-Dichloropropane	0.713	0.597	0.638	0.593	0.606	0.592	0.623	7.59
55)		2-hexanone	0.403	0.299	0.357	0.298	0.334	0.323	0.336	11.89
56)		Tetrachloroethene	0.512	0.442	0.424	0.415	0.407	0.368	0.428	11.16
57)		Dibromochloromethan	0.494	0.452	0.464	0.452	0.470	0.451	0.464	3.56
58)		1,2-Dibromoethane	0.353	0.359	0.382	0.362	0.371	0.368	0.366	2.79
59)		1-Chlorohexane	0.450	0.505	0.524	0.555	0.540	0.482	0.509	7.61
60)	P	Chlorobenzene	1.022	1.062	1.016	1.005	0.969	0.914	0.998	5.09
61)		1,1,1,2-Tetrachloro	0.403	0.418	0.415	0.413	0.410	0.388	0.408	2.71
62)	C	Ethylbenzene	1.826	1.833	1.748	1.780	1.737	1.581	1.751	5.24
63)		m,p-Xylene	1.362	1.435	1.430	1.408	1.378	1.258	1.379	4.76
64)		o-Xylene	1.452	1.521	1.529	1.531	1.515	1.428	1.496	2.98
65)		Styrene	0.999	1.053	1.121	1.139	1.132	1.094	1.090	5.00
66)	P	Bromoform	0.264	0.277	0.323	0.300	0.310	0.298	0.295	7.27
67)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
68)		Isopropylbenzene	3.753	3.447	3.204	3.084	3.040	2.751	3.213	10.84
69)		Cyclohexanone	0.049	0.028	0.028	0.022	0.024	0.025	0.029	33.24

---- Linear regr., Force(0,0) ---- Coefficient = 0.9936

Response Ratio = 0.00000 + 0.02465 *A

70)	S	4-Bromofluorobenzen	0.914	0.905	0.878	0.863	0.892	0.915	0.895	2.34
71)	P	1,1,2,2-Tetrachloro	1.077	0.955	0.971	0.790	0.831	0.774	0.900	13.35
72)		trans-1,4-Dichloro-	0.268	0.241	0.262	0.233	0.264	0.251	0.253	5.58
73)		1,2,3-Trichloroprop	0.281	0.296	0.287	0.239	0.228	0.231	0.260	11.88
74)		Bromobenzene	0.946	0.950	0.902	0.817	0.826	0.760	0.867	8.92
75)		n-Propylbenzene	4.462	4.299	4.097	4.023	3.924	3.588	4.065	7.49
76)		2-Chlorotoluene	3.562	3.242	3.018	2.851	2.805	2.556	3.006	11.82
77)		1,3,5-Trimethylbenz	3.316	3.446	3.191	3.020	2.929	2.660	3.094	9.19
78)		4-Chlorotoluene	2.500	2.614	2.582	2.506	2.473	2.297	2.495	4.44
79)		tert-Butylbenzene	2.168	2.089	1.951	1.863	1.814	1.651	1.923	9.82
80)		1,2,4-Trimethylbenz	3.295	3.210	3.163	3.009	2.979	2.729	3.064	6.64
81)		sec-Butylbenzene	4.025	3.956	3.772	3.618	3.547	3.146	3.677	8.68
82)		4-Isopropyltoluene	3.031	3.107	2.925	2.855	2.827	2.554	2.883	6.69
83)		1,3-Dichlorobenzene	1.660	1.648	1.530	1.457	1.449	1.351	1.516	8.00

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1867-ICC1867
Lab FileID: K042881.D

84)	1,4-Dichlorobenzene	1.567	1.507	1.475	1.419	1.428	1.327	1.454	5.68
85)	Benzyl chloride	0.290	0.287	0.356	0.291	0.313	0.291	0.305	8.81
86)	n-Butylbenzene	1.476	1.522	1.641	1.581	1.612	1.449	1.547	4.96
87)	1,2-Dichlorobenzene	1.628	1.495	1.485	1.375	1.375	1.319	1.446	7.78
88)	1,2-Dibromo-3-Chlor	0.180	0.160	0.189	0.148	0.167	0.165	0.168	8.64
89)	1,2,4-Trichlorobenz	0.552	0.673	0.811	0.793	0.842	0.780	0.742	14.69
90)	Hexachlorobutadiene	0.674	0.680	0.660	0.636	0.617	0.559	0.638	7.11
91)	Naphthalene	0.860	0.992	1.427	1.409	1.639	1.607	1.322	24.44

---- Linear regr., Force(0,0) ---- Coefficient = 0.9961
Response Ratio = 0.00000 + 1.58094 *A

92)	1,2,3-Trichlorobenz	0.428	0.484	0.615	0.646	0.709	0.663	0.591	18.70

---- Linear regr., Force(0,0) ---- Coefficient = 0.9967
Response Ratio = 0.00000 + 0.67220 *A

93) I	Tert Butyl Alcohol-d1	----------ISTD----------							
94)	Acrolein	2.343	2.110	1.616	1.984	1.903	1.597	1.925	14.98
95)	Tert Butyl Alcohol	1.302	1.358	1.167	1.155	1.243	1.186	1.235	6.57
96)	Tert Amyl Alcohol	0.670	0.924	0.826	0.780	0.834	0.811	0.808	10.23
97)	1,4-Dioxane	0.136	0.105	0.089	0.089	0.085	0.092	0.099	19.40

---- Linear regr., Force(0,0) ---- Coefficient = 0.9969
Response Ratio = 0.00000 + 0.08933 *A

(#) = Out of Range

8260-K.M Wed Dec 02 12:17:58 2009

5.7.9

5

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VK1868-BFB	Injection Date:	12/02/09
Lab File ID:	K042902.D	Injection Time:	08:46
Instrument ID:	GCMSK		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8267	25.0		Pass
75	30.0 - 60.0% of mass 95	18949	57.3		Pass
95	Base peak, 100% relative abundance	33063	100.0		Pass
96	5.0 - 9.0% of mass 95	2757	8.3		Pass
173	Less than 2.0% of mass 174	157	0.47	(0.6) [a]	Pass
174	50.0 - 100.0% of mass 95	26053	78.8		Pass
175	5.0 - 9.0% of mass 174	2240	6.8	(8.6) [a]	Pass
176	95.0 - 101.0% of mass 174	25105	75.9	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	1910	5.8	(7.6) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VK1868-CC1867	K042903.D	12/02/09	09:15	00:29	Continuing cal 4
VK1868-BS	K042904.D	12/02/09	10:01	01:15	Blank Spike
VK1868-MB	K042905.D	12/02/09	10:27	01:41	Method Blank
ZZZZZZ	K042906.D	12/02/09	10:52	02:06	(unrelated sample)
F69767-1	K042907.D	12/02/09	11:17	02:31	(used for QC only; not part of job F69760)
ZZZZZZ	K042908.D	12/02/09	11:52	03:06	(unrelated sample)
F69760-1	K042909.D	12/02/09	12:17	03:31	KW-TFS-TB-04-1104
F69760-11	K042910.D	12/02/09	12:42	03:56	KWTFS-SB108-SO-0002
F69760-12	K042911.D	12/02/09	13:08	04:22	KWTFS-SB114-SO-0002
F69760-13	K042912.D	12/02/09	13:33	04:47	KWTFS-SB129-SO-0002
F69760-14	K042913.D	12/02/09	13:59	05:13	KWTFS-SB132-SO-0002
F69767-1MS	K042916.D	12/02/09	15:15	06:29	Matrix Spike
F69767-1MSD	K042917.D	12/02/09	15:41	06:55	Matrix Spike Duplicate
ZZZZZZ	K042918.D	12/02/09	16:06	07:20	(unrelated sample)
ZZZZZZ	K042919.D	12/02/09	16:31	07:45	(unrelated sample)
ZZZZZZ	K042920.D	12/02/09	16:57	08:11	(unrelated sample)
ZZZZZZ	K042921.D	12/02/09	17:22	08:36	(unrelated sample)
ZZZZZZ	K042922.D	12/02/09	17:47	09:01	(unrelated sample)
ZZZZZZ	K042923.D	12/02/09	18:13	09:27	(unrelated sample)
ZZZZZZ	K042924.D	12/02/09	18:38	09:52	(unrelated sample)
ZZZZZZ	K042925.D	12/02/09	19:04	10:18	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1868-CC1867
Lab FileID: K042903.D

Evaluate Continuing Calibration Report

Data File : K:\HPCHEM\1\DATA\120209\K042903.D Vial: 1
Acq On : 2 Dec 2009 9:15 am Operator: Logand
Sample : cc1867-4 Inst : MSVOA2
Misc : ms12876,vk1868,5.00,,,,, Multiplr: 1.00
MS Integration Params: SMALL.P

Method : C:\MSDCHEM\2\METHODS\8260-K.M (RTE Integrator)
Title : SWA 5035/8260B
Last Update : Tue Dec 01 17:08:28 2009
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	97	0.01	11.57
2		Dichlorodifluoromethane	0.359	0.401	-11.7	100	0.00	4.29
3	P	Chloromethane	0.424	0.447	-5.4	97	0.00	4.69
4	C	Vinyl Chloride	0.392	0.420	-7.1	97	0.00	4.89
			Amount	Calc.	%Drift			
5		Bromomethane	100.000	87.097	12.9	86	0.01	5.58
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.166	0.185	-11.4	102	0.00	5.84
7		Trichlorofluoromethane	0.417	0.467	-12.0	101	0.00	6.12
8		1,2-Dichloro-1,1,2-triflu	0.394	0.422	-7.1	96	0.00	6.99
9		Ethyl Ether	0.280	0.307	-9.6	101	0.00	6.62
10		Freon 113	0.311	0.339	-9.0	97	0.00	7.12
11	C	1,1-Dichloroethene	0.564	0.592	-5.0	95	0.00	7.06
12		Acetone	0.122	0.156	-27.9#	128	0.01	8.06
13		Iodomethane	0.477	0.500	-4.8	95	0.00	7.35
14		Carbon Disulfide	0.813	0.888	-9.2	97	0.00	7.16
15		Methyl acetate	0.250	0.321	-28.4#	123	0.00	8.23
			Amount	Calc.	%Drift			
16		Methylene Chloride	100.000	72.961	27.0#	75	0.00	8.05
17		Acrylonitrile	500.000	573.612	-14.7	116	0.00	9.25
			AvgRF	CCRF	%Dev			
18		Methyl Tert Butyl Ether	0.988	1.099	-11.2	106	0.00	8.40
19		trans-1,2-Dichloroethene	0.498	0.535	-7.4	96	0.00	8.26
20		Hexane	0.735	0.832	-13.2	103	0.00	8.38
21		Vinyl acetate	0.250	0.321	-28.4#	123	0.00	8.23
22	P	1,1-Dichloroethane	0.626	0.694	-10.9	99	0.01	9.21
23		Di-isopropyl ether	1.359	1.445	-6.3	95	0.00	8.95
24		Ethyl tert-butyl Ether	1.147	1.274	-11.1	99	0.00	9.49
			Amount	Calc.	%Drift			
25		2-Butanone	500.000	640.423	-28.1#	127	0.00	10.67
			AvgRF	CCRF	%Dev			
26		cis-1,2-Dichloroethene	0.321	0.364	-13.4	99	0.01	9.97
27		2,2-Dichloropropane	0.346	0.363	-4.9	99	0.00	10.12
28		Bromochloromethane	0.154	0.165	-7.1	107	0.00	10.24
			Amount	Calc.	%Drift			

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1868-CC1867
Lab FileID: K042903.D

29	C	Chloroform	100.000	99.472	0.5	101	0.00	10.30
30		Tetrahydrofuran	100.000	117.100	-17.1	123	0.00	10.66
			AvgRF	CCRF	%Dev			
31	S	Dibromofluoromethane	0.300	0.290	3.3	95	0.00	10.54
32		1,1,1-Trichloroethane	0.459	0.449	2.2	99	0.00	10.61
33		Cyclohexane	0.546	0.531	2.7	97	0.00	10.29
34		1,1-Dichloropropene	0.428	0.438	-2.3	100	0.00	10.76
35		Carbon Tetrachloride	0.495	0.508	-2.6	99	0.00	10.54
36	S	1,2-Dichloroethane-d4	0.377	0.444	-17.8	107	0.00	11.22
37		1,2-Dichloroethane	0.484	0.506	-4.5	104	0.00	11.31
38		Benzene	1.102	1.109	-0.6	98	0.00	11.07
39		Tert-Amyl Methyl Ether	0.822	0.873	-6.2	104	0.00	11.15
40		Trichloroethene	0.308	0.325	-5.5	104	0.00	11.77
41		Methylcyclohexane	0.467	0.491	-5.1	99	0.00	11.79
42	C	1,2-Dichloropropane	0.316	0.325	-2.8	98	0.00	12.38
43		Dibromomethane	0.188	0.199	-5.9	102	0.01	12.29
44		Bromodichloromethane	0.442	0.464	-5.0	101	0.00	12.43
45		2-Nitropropane	0.114	0.135	-18.4	116	0.00	13.65
46		2-Chloroethyl vinyl ether	0.121	0.151	-24.8#	115	0.00	13.01
47		cis-1,3-Dichloropropene	0.447	0.496	-11.0	98	0.01	13.14
48		4-Methyl-2-pentanone	0.334	0.424	-26.9#	124	0.00	13.76
49	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	15.05
50	S	Toluene-d8	1.478	1.386	6.2	95	0.00	13.35
51	C	Toluene	1.675	1.558	7.0	97	0.00	13.41
52		trans-1,3-Dichloropropene	0.573	0.592	-3.3	101	0.01	13.84
53		1,1,2-Trichloroethane	0.318	0.304	4.4	101	0.01	14.03
54		1,3-Dichloropropane	0.623	0.607	2.6	102	0.00	14.34
55		2-hexanone	0.336	0.383	-14.0	128	0.00	14.65
56		Tetrachloroethene	0.428	0.424	0.9	102	0.00	13.87
57		Dibromochloromethane	0.464	0.447	3.7	98	0.01	14.26
58		1,2-Dibromoethane	0.366	0.376	-2.7	103	0.00	14.54
59		1-Chlorohexane	0.509	0.531	-4.3	95	0.00	14.99
60	P	Chlorobenzene	0.998	0.984	1.4	98	0.00	15.07
61		1,1,1,2-Tetrachloroethane	0.408	0.406	0.5	98	0.00	15.12
62	C	Ethylbenzene	1.751	1.730	1.2	97	0.01	15.06
63		m,p-Xylene	1.379	1.368	0.8	97	0.00	15.20
64		o-Xylene	1.496	1.480	1.1	96	0.00	15.68
65		Styrene	1.090	1.103	-1.2	97	0.00	15.72
66	P	Bromoform	0.295	0.323	-9.5	107	0.00	15.81
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	17.51
68		Isopropylbenzene	3.213	3.042	5.3	96	0.00	15.98
			Amount	Calc.	%Drift			
69		Cyclohexanone	500.000	527.343	-5.5	115	0.00	16.75
			AvgRF	CCRF	%Dev			
70	S	4-Bromofluorobenzene	0.895	0.888	0.8	100	0.00	16.33
71	P	1,1,2,2-Tetrachloroethane	0.900	0.922	-2.4	114	0.00	16.48
72		trans-1,4-Dichloro-2-Bute	0.253	0.286	-13.0	120	0.00	16.67
73		1,2,3-Trichloropropane	0.260	0.275	-5.8	112	0.00	16.66
74		Bromobenzene	0.867	0.837	3.5	100	0.00	16.47
75		n-Propylbenzene	4.065	4.007	1.4	97	0.00	16.41
76		2-Chlorotoluene	3.006	2.825	6.0	97	0.00	16.63
77		1,3,5-Trimethylbenzene	3.094	2.943	4.9	95	0.00	16.59
78		4-Chlorotoluene	2.495	2.490	0.2	97	0.00	16.80
79		tert-Butylbenzene	1.923	1.845	4.1	97	0.00	16.96
80		1,2,4-Trimethylbenzene	3.064	2.963	3.3	96	0.00	17.03

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1868-CC1867
Lab FileID: K042903.D

81	sec-Butylbenzene	3.677	3.600	2.1	97	0.00	17.14
82	4-Isopropyltoluene	2.883	2.844	1.4	97	0.00	17.26
83	1,3-Dichlorobenzene	1.516	1.469	3.1	98	0.00	17.44
84	1,4-Dichlorobenzene	1.454	1.468	-1.0	101	0.00	17.53
85	Benzyl chloride	0.305	0.346	-13.4	116	0.00	17.76
86	n-Butylbenzene	1.547	1.623	-4.9	100	0.00	17.72
87	1,2-Dichlorobenzene	1.446	1.408	2.6	100	0.00	17.99
88	1,2-Dibromo-3-Chloropropa	0.168	0.193	-14.9	127	0.00	18.83
89	1,2,4-Trichlorobenzene	0.742	0.878	-18.3	108	0.00	19.56
90	Hexachlorobutadiene	0.638	0.655	-2.7	100	0.00	19.48
		Amount	Calc.	%Drift			
91	Naphthalene	100.000	112.574	-12.6	123	0.01	19.93
92	1,2,3-Trichlorobenzene	100.000	111.802	-11.8	113	0.00	20.15
		AvgRF	CCRF	%Dev			
93 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	142	0.00	8.37
94	Acrolein	1.925	1.422	26.1#	102	0.00	8.38
95	Tert Butyl Alcohol	1.235	1.200	2.8	147	0.00	8.49
96	Tert Amyl Alcohol	0.808	0.796	1.5	145	0.00	11.34
		Amount	Calc.	%Drift			
97	1,4-Dioxane	2000.000	1749.760	12.5	124	0.00	12.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
K042876.D 8260-K.M Thu Dec 03 12:03:12 2009

5.7.10 5

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1868-MB	K042905.D	1	12/02/09	LD	n/a	n/a	VK1868

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-1, F69760-11, F69760-12, F69760-13, F69760-14

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	25	9.8	ug/kg	
107-13-1	Acrylonitrile	ND	25	6.9	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.7	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1868-MB	K042905.D	1	12/02/09	LD	n/a	n/a	VK1868

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-1, F69760-11, F69760-12, F69760-13, F69760-14

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-121%
2037-26-5	Toluene-D8	95%	71-130%
460-00-4	4-Bromofluorobenzene	103%	59-148%
17060-07-0	1,2-Dichloroethane-D4	99%	77-123%

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VK1869-BFB	Injection Date:	12/03/09
Lab File ID:	K042931.D	Injection Time:	10:40
Instrument ID:	GCMSK		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14995	26.2		Pass
75	30.0 - 60.0% of mass 95	32842	57.3		Pass
95	Base peak, 100% relative abundance	57326	100.0		Pass
96	5.0 - 9.0% of mass 95	4415	7.7		Pass
173	Less than 2.0% of mass 174	171	0.3	(0.38) [a]	Pass
174	50.0 - 100.0% of mass 95	44632	77.9		Pass
175	5.0 - 9.0% of mass 174	3913	6.8	(8.8) [a]	Pass
176	95.0 - 101.0% of mass 174	44198	77.1	(99.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3390	5.9	(7.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VK1869-IC1869	K042932.D	12/03/09	11:12	00:32	Initial cal 1
VK1869-IC1869	K042933.D	12/03/09	11:37	00:57	Initial cal 2
VK1869-IC1869	K042934.D	12/03/09	12:02	01:22	Initial cal 3
VK1869-ICC1869	K042935.D	12/03/09	12:28	01:48	Initial cal 4
VK1869-IC1869	K042936.D	12/03/09	12:53	02:13	Initial cal 5
VK1869-IC1869	K042937.D	12/03/09	13:18	02:38	Initial cal 6
VK1869-ICV1869	K042938.D	12/03/09	13:44	03:04	Initial cal verification 3
VK1869-BS	K042939.D	12/03/09	14:10	03:30	Blank Spike
VK1869-MB	K042940.D	12/03/09	14:35	03:55	Method Blank
F69616-35	K042941.D	12/03/09	15:01	04:21	(used for QC only; not part of job F69760)
ZZZZZZ	K042942.D	12/03/09	15:26	04:46	(unrelated sample)
ZZZZZZ	K042943.D	12/03/09	15:51	05:11	(unrelated sample)
F69616-35MS	K042944.D	12/03/09	16:17	05:37	Matrix Spike
F69616-35MSD	K042945.D	12/03/09	16:42	06:02	Matrix Spike Duplicate
ZZZZZZ	K042946.D	12/03/09	17:08	06:28	(unrelated sample)
ZZZZZZ	K042947.D	12/03/09	17:33	06:53	(unrelated sample)
F69760-11	K042948.D	12/03/09	17:59	07:19	KWTFS-SB108-SO-0002
F69760-15	K042949.D	12/03/09	18:25	07:45	KWTFS-SB147-SO-0002
ZZZZZZ	K042950.D	12/03/09	18:51	08:11	(unrelated sample)
ZZZZZZ	K042951.D	12/03/09	19:16	08:36	(unrelated sample)
ZZZZZZ	K042952.D	12/03/09	19:42	09:02	(unrelated sample)
ZZZZZZ	K042953.D	12/03/09	20:08	09:28	(unrelated sample)
ZZZZZZ	K042954.D	12/03/09	20:33	09:53	(unrelated sample)
ZZZZZZ	K042955.D	12/03/09	20:59	10:19	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VK1869-BFB	Injection Date:	12/03/09
Lab File ID:	K042931.D	Injection Time:	10:40
Instrument ID:	GCMSK		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	K042956.D	12/03/09	21:24	10:44	(unrelated sample)

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1869-ICC1869
Lab FileID: K042935.D

Response Factor Report MSVOA2

Method : C:\MSDCHEM\2\METHODS\8260-K.M (RTE Integrator)
Title : SWA 5035/8260B
Last Update : Thu Dec 03 14:53:22 2009
Response via : Initial Calibration

Calibration Files
1 =K042932.D 2 =K042933.D 3 =K042934.D 4 =K042935.D
5 =K042936.D 6 =K042937.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.404	0.355	0.350	0.303	0.301	0.296	0.335	12.75
3)	P	Chloromethane	0.423	0.421	0.430	0.362	0.361	0.353	0.392	9.26
4)	C	Vinyl Chloride	0.429	0.389	0.370	0.325	0.334	0.326	0.362	11.55
5)		Bromomethane	0.199	0.208	0.197	0.139	0.131	0.122	0.166	23.63
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9903								
		Response Ratio = 0.00000 + 0.17922 *A + -0.01483 *A^2								
6)		Chloroethane	0.184	0.180	0.178	0.140	0.140	0.131	0.159	15.31
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9932								
		Response Ratio = 0.00000 + 0.13684 *A								
7)		Trichlorofluorometh	0.499	0.436	0.422	0.355	0.353	0.342	0.401	15.44
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9977								
		Response Ratio = 0.00000 + 0.35015 *A								
8)		1,2-Dichloro-1,1,2-	0.460	0.420	0.391	0.332	0.338	0.331	0.379	14.23
9)		Ethyl Ether	0.261	0.301	0.311	0.268	0.259	0.251	0.275	8.97
10)		Freon 113	0.345	0.325	0.304	0.249	0.253	0.244	0.287	15.17
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9972								
		Response Ratio = 0.00000 + 0.25014 *A								
11)	C	1,1-Dichloroethene	0.628	0.590	0.543	0.472	0.485	0.476	0.532	12.36
12)		Acetone	0.149	0.120	0.121	0.123	0.109	0.104	0.121	12.93
13)		Iodomethane	0.529	0.492	0.485	0.404	0.406	0.405	0.453	12.15
14)		Carbon Disulfide	0.858	0.821	0.804	0.677	0.706	0.688	0.759	10.26
15)		Methyl acetate	0.265	0.260	0.258	0.261	0.230	0.225	0.250	7.01
16)		Methylene Chloride	1.272	0.679	0.603	0.465	0.468	0.450	0.656	48.01
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9969								
		Response Ratio = 0.00000 + 0.46420 *A								
17)		Acrylonitrile	0.117	0.106	0.111	0.111	0.099	0.085	0.105	10.77
18)		Methyl Tert Butyl E	1.121	1.056	1.037	0.914	0.872	0.845	0.974	11.52
19)		trans-1,2-Dichloroe	0.490	0.508	0.487	0.424	0.438	0.429	0.463	7.88
20)		Hexane	0.681	0.756	0.698	0.632	0.611	0.609	0.665	8.72
21)		Vinyl acetate	0.267	0.262	0.258	0.261	0.230	0.225	0.250	7.22
22)	P	1,1-Dichloroethane	0.682	0.677	0.643	0.553	0.552	0.545	0.609	10.79
23)		Di-isopropyl ether	1.517	1.451	1.407	1.193	1.210	1.188	1.328	11.12
24)		Ethyl tert-butyl Et	1.417	1.265	1.245	1.080	1.051	1.037	1.183	12.79
25)		2-Butanone	0.201	0.160	0.158	0.199	0.172	0.161	0.175	11.25
26)		cis-1,2-Dichloroeth	0.349	0.325	0.329	0.298	0.294	0.297	0.315	7.13
27)		2,2-Dichloropropane	0.421	0.324	0.309	0.294	0.295	0.281	0.321	15.95
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9990								
		Response Ratio = 0.00000 + 0.28815 *A								
28)		Bromochloromethane	0.169	0.155	0.152	0.158	0.156	0.149	0.156	4.39

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1869-ICC1869
Lab FileID: K042935.D

29)	C	Chloroform	0.798	0.579	0.566	0.547	0.552	0.541	0.597	16.61
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.54623 *A								
30)		Tetrahydrofuran	0.085	0.066	0.073	0.087	0.075	0.067	0.075	11.69
31)	S	Dibromofluoromethan	0.292	0.297	0.291	0.301	0.295	0.282	0.293	2.22
32)		1,1,1-Trichloroetha	0.568	0.430	0.431	0.424	0.423	0.413	0.448	13.21
33)		Cyclohexane	0.627	0.490	0.460	0.485	0.504	0.488	0.509	11.73
34)		1,1-Dichloropropene	0.488	0.401	0.388	0.396	0.393	0.394	0.410	9.40
35)		Carbon Tetrachlorid	0.596	0.494	0.469	0.467	0.479	0.464	0.495	10.22
36)	S	1,2-Dichloroethane-	0.369	0.380	0.393	0.391	0.375	0.371	0.380	2.70
37)		1,2-Dichloroethane	0.660	0.498	0.494	0.519	0.504	0.482	0.526	12.65
38)		Benzene	1.383	1.097	1.079	1.078	1.079	1.076	1.132	10.87
39)		Tert-Amyl Methyl Et	0.975	0.797	0.804	0.882	0.867	0.846	0.862	7.54
40)		Trichloroethene	0.379	0.299	0.298	0.295	0.298	0.293	0.310	10.92
41)		Methylcyclohexane	0.574	0.432	0.441	0.438	0.454	0.440	0.463	11.85
42)	C	1,2-Dichloropropane	0.402	0.313	0.304	0.325	0.330	0.323	0.333	10.59
43)		Dibromomethane	0.193	0.178	0.189	0.210	0.200	0.195	0.194	5.55
44)		Bromodichloromethan	0.589	0.459	0.446	0.462	0.474	0.449	0.480	11.37
45)		2-Nitropropane	0.152	0.109	0.111	0.140	0.124	0.116	0.125	13.76
46)		2-Chloroethyl vinyl	0.124	0.117	0.125	0.159	0.149	0.140	0.136	12.07
47)		cis-1,3-Dichloropro	0.516	0.469	0.471	0.506	0.499	0.497	0.493	3.84
48)		4-Methyl-2-pentanon	0.412	0.334	0.338	0.421	0.366	0.349	0.370	10.15
49)	I	Chlorobenzene-d5	----------ISTD----------							
50)	S	Toluene-d8	1.296	1.405	1.453	1.436	1.489	1.500	1.430	5.19
51)	C	Toluene	1.792	1.506	1.524	1.563	1.581	1.595	1.593	6.46
52)		trans-1,3-Dichlorop	0.566	0.547	0.559	0.613	0.603	0.609	0.583	4.93
53)		1,1,2-Trichloroetha	0.321	0.318	0.309	0.323	0.316	0.316	0.317	1.53
54)		1,3-Dichloropropane	0.704	0.581	0.593	0.637	0.630	0.618	0.627	6.89
55)		2-hexanone	0.401	0.297	0.296	0.386	0.342	0.342	0.344	12.75
56)		Tetrachloroethene	0.454	0.408	0.398	0.387	0.389	0.395	0.405	6.17
57)		Dibromochloromethan	0.493	0.451	0.460	0.482	0.465	0.467	0.470	3.21
58)		1,2-Dibromoethane	0.360	0.343	0.370	0.400	0.381	0.384	0.373	5.33
59)		1-Chlorohexane	0.516	0.447	0.467	0.499	0.508	0.533	0.495	6.51
60)	P	Chlorobenzene	1.142	1.020	0.988	0.957	0.961	0.978	1.008	6.91
61)		1,1,1,2-Tetrachloro	0.489	0.408	0.412	0.406	0.403	0.414	0.422	7.87
62)	C	Ethylbenzene	1.926	1.689	1.664	1.664	1.689	1.676	1.718	5.97
63)		m,p-Xylene	1.560	1.347	1.351	1.322	1.330	1.329	1.373	6.71
64)		o-Xylene	1.579	1.468	1.433	1.449	1.492	1.494	1.486	3.46
65)		Styrene	1.133	1.023	1.017	1.094	1.122	1.138	1.088	5.03
66)	P	Bromoform	0.295	0.313	0.309	0.335	0.317	0.317	0.314	4.13
67)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
68)		Isopropylbenzene	4.281	3.078	2.921	2.820	2.831	2.837	3.128	18.32
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 2.83733 *A								
69)		Cyclohexanone	0.054	0.024	0.022	0.031	0.026	0.025	0.030	39.15
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9875								
		Response Ratio = 0.00000 + 0.03071 *A + -0.00029 *A^2								
70)	S	4-Bromofluorobenzen	0.885	0.889	0.852	0.875	0.860	0.887	0.875	1.76
71)	P	1,1,2,2-Tetrachloro	1.152	0.930	0.880	0.915	0.804	0.791	0.912	14.32
72)		trans-1,4-Dichloro-	0.324	0.248	0.239	0.282	0.263	0.240	0.266	12.37
73)		1,2,3-Trichloroprop	0.322	0.269	0.248	0.267	0.237	0.224	0.261	13.25
74)		Bromobenzene	1.029	0.901	0.844	0.800	0.795	0.777	0.858	11.08
75)		n-Propylbenzene	4.759	3.975	3.687	3.673	3.661	3.682	3.906	11.13
76)		2-Chlorotoluene	3.618	2.985	2.771	2.670	2.612	2.611	2.878	13.50
77)		1,3,5-Trimethylbenz	3.520	3.051	2.869	2.806	2.729	2.720	2.949	10.33

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VK1869-ICC1869
Lab FileID: K042935.D

78)	4-Chlorotoluene	2.956	2.495	2.331	2.331	2.283	2.318	2.452	10.49
79)	tert-Butylbenzene	2.604	1.903	1.751	1.727	1.716	1.695	1.899	18.58
	---- Linear regr., Force(0,0) ---- Coefficient = 1.0000								
	Response Ratio = 0.00000 + 1.70885 *A								
80)	1,2,4-Trimethylbenz	3.740	3.105	2.864	2.813	2.762	2.792	3.013	12.52
81)	sec-Butylbenzene	4.292	3.528	3.275	3.300	3.271	3.254	3.487	11.69
82)	4-Isopropyltoluene	3.087	2.715	2.546	2.644	2.582	2.594	2.695	7.46
83)	1,3-Dichlorobenzene	1.900	1.465	1.380	1.372	1.362	1.361	1.474	14.43
84)	1,4-Dichlorobenzene	1.857	1.439	1.344	1.373	1.335	1.339	1.448	14.12
85)	Benzyl chloride	0.343	0.307	0.287	0.334	0.302	0.296	0.311	7.16
86)	n-Butylbenzene	1.634	1.426	1.368	1.478	1.488	1.480	1.479	5.98
87)	1,2-Dichlorobenzene	1.649	1.456	1.373	1.372	1.323	1.300	1.412	9.06
88)	1,2-Dibromo-3-Chlor	0.240	0.156	0.155	0.195	0.168	0.179	0.182	17.53
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9929								
	Response Ratio = 0.00000 + 0.17710 *A								
89)	1,2,4-Trichlorobenz	0.660	0.611	0.719	0.815	0.777	0.807	0.731	11.37
90)	Hexachlorobutadiene	0.756	0.589	0.551	0.577	0.564	0.571	0.601	12.75
91)	Naphthalene	1.040	0.938	1.204	1.792	1.662	1.674	1.385	26.58
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9934								
	Response Ratio = 0.00000 + 1.66624 *A								
92)	1,2,3-Trichlorobenz	0.525	0.487	0.564	0.704	0.666	0.685	0.605	15.14
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9975								
	Response Ratio = 0.00000 + 0.67690 *A								
93) I	Tert Butyl Alcohol-d1 ----------ISTD----------								
94)	Acrolein	2.749	2.001	1.776	1.334	1.659	1.612	1.855	26.35
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9873								
	Response Ratio = 0.00000 + 1.59722 *A								
95)	Tert Butyl Alcohol	1.923	1.342	1.211	1.160	1.191	1.160	1.331	22.35
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9996								
	Response Ratio = 0.00000 + 1.17230 *A								
96)	Tert Amyl Alcohol	1.269	0.764	0.797	0.943	0.971	0.956	0.950	18.84
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9978								
	Response Ratio = 0.00000 + 0.95244 *A								
97)	1,4-Dioxane	0.149	0.077	0.094	0.104	0.109	0.107	0.107	22.35
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9981								
	Response Ratio = 0.00000 + 0.10663 *A								

(#) = Out of Range

8260-K.M Fri Dec 04 12:08:40 2009

5.7.11 5

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1869-MB	K042940.D	1	12/03/09	LD	n/a	n/a	VK1869

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-15

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	25	9.8	ug/kg	
107-13-1	Acrylonitrile	ND	25	6.9	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.7	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	10.1	10	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1869-MB	K042940.D	1	12/03/09	LD	n/a	n/a	VK1869

The QC reported here applies to the following samples: Method: SW846 8260B

F69760-15

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	80-121%
2037-26-5	Toluene-D8	101%	71-130%
460-00-4	4-Bromofluorobenzene	100%	59-148%
17060-07-0	1,2-Dichloroethane-D4	99%	77-123%

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2459-DFTPP	Injection Date:	11/30/09
Lab File ID:	W048890.D	Injection Time:	20:16
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	85561	36.0		Pass
68	Less than 2.0% of mass 69	701	0.29	(0.85) [a]	Pass
69	Mass 69 relative abundance	82696	34.8		Pass
70	Less than 2.0% of mass 69	396	0.17	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	117613	49.4		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	237872	100.0		Pass
199	5.0 - 9.0% of mass 198	16693	7.0		Pass
275	10.0 - 30.0% of mass 198	49317	20.7		Pass
365	1.0 - 100.0% of mass 198	4732	2.0		Pass
441	Present, but less than mass 443	24485	10.3	(78.8) [b]	Pass
442	40.0 - 100.0% of mass 198	160867	67.6		Pass
443	17.0 - 23.0% of mass 442	31088	13.1	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2459-IC2459	W048891.D	11/30/09	20:33	00:17	Initial cal 1
SW2459-IC2459	W048892.D	11/30/09	21:00	00:44	Initial cal 2
SW2459-IC2459	W048893.D	11/30/09	21:27	01:11	Initial cal 3
SW2459-ICC2459	W048894.D	11/30/09	21:54	01:38	Initial cal 4
SW2459-IC2459	W048895.D	11/30/09	22:21	02:05	Initial cal 5
SW2459-IC2459	W048896.D	11/30/09	22:49	02:33	Initial cal 6
SW2459-IC2459	W048897.D	11/30/09	23:16	03:00	Initial cal 7
SW2459-ICV2459	W048898.D	11/30/09	23:43	03:27	Initial cal verification 5

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2459-ICC2459
Lab FileID: W048894.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Tue Dec 01 00:58:00 2009
Response via : Initial Calibration

Calibration Files
L1 =W048891.D L2 =W048892.D L3 =W048893.D L4 =W048894.D
L5 =W048895.D L6 =W048896.D L7 =W048897.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.355	0.364	0.342	0.313	0.357	0.340	0.334	0.343	5.04
3)P N-nitroso-di-n-pr		0.113	0.104	0.090	0.096	0.092	0.087	0.097	9.93
4) Naphthalene	1.140	1.134	1.045	0.966	1.033	0.975	0.932	1.032	7.90
5) 2-Methylnaphthale	0.739	0.727	0.685	0.633	0.664	0.654	0.598	0.671	7.47
6) 1-Methylnaphthale	0.687	0.675	0.618	0.591	0.620	0.599	0.559	0.621	7.34
7) I Acenaphthene-d10	ISTD								
8)P Hexachlorocyclope		0.305	0.307	0.295	0.321	0.385	0.370	0.331	11.42
9)S 2-Fluorobiphenyl	1.757	2.060	1.619	1.553	1.964	1.572	1.547	1.725	12.20
10) Acenaphthylene	2.288	2.246	2.120	1.994	2.004	1.940	1.853	2.063	7.80
11)C Acenaphthene	1.364	1.349	1.262	1.197	1.216	1.194	1.116	1.243	7.18
12)P 2,4-Dinitrophenol		0.039	0.076	0.101	0.124	0.170	0.160	0.112	45.03#
13)P 4-Nitrophenol		0.205	0.241	0.258	0.280	0.296	0.263	0.257	12.41
14) Fluorene	1.512	1.471	1.409	1.353	1.328	1.290	1.192	1.365	8.03
15) I Phenanthrene-d10	ISTD								
16) Phenanthrene	1.390	1.410	1.293	1.210	1.267	1.188	1.145	1.272	7.88
17) Anthracene	1.386	1.413	1.321	1.243	1.286	1.212	1.162	1.289	7.09
18)C Fluoranthene	1.412	1.395	1.312	1.247	1.287	1.218	1.161	1.290	7.07
19) I Chrysene-d12	ISTD								
20) Pyrene	2.416	2.454	2.193	2.077	2.223	2.041	2.066	2.210	7.61
21)S Terphenyl-d14	0.968	0.962	0.912	0.902	0.973	0.901	0.881	0.929	4.11
22) Benzo[a]anthracen	1.932	1.860	1.737	1.740	1.871	1.875	1.825	1.834	3.96
23) Chrysene	1.675	1.727	1.672	1.665	1.828	1.788	1.746	1.729	3.65
24) I Perylene-d12	ISTD								
25) Benzo[b]fluoranth	1.536	1.522	1.505	1.513	1.704	1.670	1.680	1.590	5.63
26) Benzo[k]fluoranth	1.510	1.579	1.495	1.528	1.716	1.706	1.739	1.610	6.61
27)C Benzo[a]pyrene	1.319	1.316	1.299	1.329	1.464	1.477	1.469	1.382	6.01
28) Indeno[1,2,3-cd]p	1.029	1.001	1.016	1.078	1.141	1.194	1.096	1.079	6.55
29) Dibenz[a,h]anthra	0.965	0.938	0.966	1.079	1.124	1.188	1.085	1.049	8.97
30) Benzo[g,h,i]peryl	1.223	1.203	1.186	1.274	1.333	1.368	1.247	1.262	5.35

(#) = Out of Range

SIM_PAHA.M Tue Dec 01 01:00:12 2009

7.7.4

7

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2460-DFTPP	Injection Date:	12/01/09
Lab File ID:	W048899.D	Injection Time:	00:18
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	64937	40.3		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	59306	36.8		Pass
70	Less than 2.0% of mass 69	313	0.19	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	80741	50.1		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	161283	100.0		Pass
199	5.0 - 9.0% of mass 198	10839	6.7		Pass
275	10.0 - 30.0% of mass 198	32675	20.3		Pass
365	1.0 - 100.0% of mass 198	2915	1.8		Pass
441	Present, but less than mass 443	14775	9.2	(75.3) [b]	Pass
442	40.0 - 100.0% of mass 198	99749	61.8		Pass
443	17.0 - 23.0% of mass 442	19618	12.2	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2460-CC2459	W048900.D	12/01/09	00:35	00:17	Continuing cal 4
OP31068-BS	W048901.D	12/01/09	01:02	00:44	Blank Spike
OP31068-MB	W048902.D	12/01/09	01:29	01:11	Method Blank
ZZZZZZ	W048903.D	12/01/09	01:56	01:38	(unrelated sample)
ZZZZZZ	W048904.D	12/01/09	02:23	02:05	(unrelated sample)
F69760-4	W048905.D	12/01/09	02:51	02:33	KWTFS-SB101-GW-0307
F69760-5	W048906.D	12/01/09	03:18	03:00	KWTFS-SB108-GW-0307
OP31068-MS	W048907.D	12/01/09	03:44	03:26	Matrix Spike
OP31068-MSD	W048908.D	12/01/09	04:12	03:54	Matrix Spike Duplicate
F69760-7	W048910.D	12/01/09	05:06	04:48	KWTFS-SB129-GW-0307
F69760-8	W048911.D	12/01/09	05:33	05:15	KWTFS-SB132-GW-0307
F69760-9	W048912.D	12/01/09	06:00	05:42	KWTFS-SB134-GW-0307
F69760-10	W048913.D	12/01/09	06:27	06:09	KWTFS-SB147-GW-0307
OP31075-MB	W048915.D	12/01/09	07:21	07:03	Method Blank
ZZZZZZ	W048916.D	12/01/09	07:48	07:30	(unrelated sample)
ZZZZZZ	W048917.D	12/01/09	08:16	07:58	(unrelated sample)
ZZZZZZ	W048918.D	12/01/09	08:43	08:25	(unrelated sample)
ZZZZZZ	W048919.D	12/01/09	09:10	08:52	(unrelated sample)
OP31076-MB	W048921.D	12/01/09	10:05	09:47	Method Blank

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2460-DFTPP	Injection Date:	12/01/09
Lab File ID:	W048899.D	Injection Time:	00:18
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W048922.D	12/01/09	10:32	10:14	(unrelated sample)
ZZZZZZ	W048923.D	12/01/09	11:00	10:42	(unrelated sample)
ZZZZZZ	W048924.D	12/01/09	11:27	11:09	(unrelated sample)
ZZZZZZ	W048925.D	12/01/09	11:54	11:36	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2460-CC2459
Lab FileID: W048900.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\113009\W048900.D Vial: 2
Acq On : 1 Dec 2009 12:35 am Operator: rayb
Sample : cc2459-4 Inst : MSBNA01
Misc : op30933,sw2460,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Tue Dec 01 00:58:00 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00	6.25
2	S	Nitrobenzene-d5	0.343	0.319	7.0	101	0.00	5.57
3	P	N-nitroso-di-n-propylamin	0.097	0.090	7.2	99	0.00	5.43
4		Naphthalene	1.032	0.963	6.7	99	0.00	6.28
5		2-Methylnaphthalene	0.671	0.624	7.0	98	0.00	7.07
6		1-Methylnaphthalene	0.621	0.576	7.2	97	0.00	7.19
7	I	Acenaphthene-d10	1.000	1.000	0.0	95	0.00	8.53
8	P	Hexachlorocyclopentadiene	0.331	0.252	23.9#	81	0.00	7.28
9	S	2-Fluorobiphenyl	1.725	1.583	8.2	97	0.00	7.57
10		Acenaphthylene	2.063	1.947	5.6	93	0.00	8.31
11	C	Acenaphthene	1.243	1.162	6.5	92	0.00	8.58
12	P	2,4-Dinitrophenol	0.112	0.083	25.9#*	78	0.00	8.64
13	P	4-Nitrophenol	0.257	0.218	15.2	80	0.00	8.75
14		Fluorene	1.365	1.299	4.8	91	-0.01	9.41
15	I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00	11.02
16		Phenanthrene	1.272	1.204	5.3	88	0.00	11.06
17		Anthracene	1.289	1.229	4.7	88	0.00	11.15
18	C	Fluoranthene	1.290	1.200	7.0	85	0.00	13.23
19	I	Chrysene-d12	1.000	1.000	0.0	82	0.00	15.92
20		Pyrene	2.210	2.138	3.3	85	0.00	13.63
21	S	Terphenyl-d14	0.929	0.917	1.3	84	0.00	14.04
22		Benzo[a]anthracene	1.834	1.667	9.1	79	0.00	15.90
23		Chrysene	1.729	1.631	5.7	81	0.00	15.96
24	I	Perylene-d12	1.000	1.000	0.0	77	0.00	18.40
25		Benzo[b]fluoranthene	1.590	1.485	6.6	75	0.00	17.79
26		Benzo[k]fluoranthene	1.610	1.509	6.3	76	0.00	17.83
27	C	Benzo[a]pyrene	1.382	1.292	6.5	74	0.00	18.31
28		Indeno[1,2,3-cd]pyrene	1.079	0.944	12.5	67	0.00	19.99
29		Dibenz[a,h]anthracene	1.049	0.954	9.1	68	0.00	20.04
30		Benzo[g,h,i]perylene	1.262	1.116	11.6	67	0.00	20.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W048894.D SIM_PAHA.M Tue Dec 01 01:06:22 2009

7.7.6

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31068-MB	W048902.D	1	12/01/09	RB	11/30/09	OP31068	SW2460

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69760-4, F69760-5, F69760-6, F69760-7, F69760-8, F69760-9, F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	54%	40-106%
1718-51-0	Terphenyl-d14	74%	39-121%

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31068-MB	W048949.D	1	12/01/09	RB	11/30/09	OP31068	SW2461

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69760-4, F69760-5, F69760-6, F69760-7, F69760-8, F69760-9, F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	51%	40-106%
1718-51-0	Terphenyl-d14	77%	39-121%

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2461-DFTPP	Injection Date:	12/01/09
Lab File ID:	W048926.D	Injection Time:	13:22
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	103263	43.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	92247	38.8		Pass
70	Less than 2.0% of mass 69	614	0.26	(0.67) [a]	Pass
127	40.0 - 60.0% of mass 198	125459	52.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	237536	100.0		Pass
199	5.0 - 9.0% of mass 198	16310	6.9		Pass
275	10.0 - 30.0% of mass 198	46739	19.7		Pass
365	1.0 - 100.0% of mass 198	4406	1.9		Pass
441	Present, but less than mass 443	18968	8.0	(76.3) [b]	Pass
442	40.0 - 100.0% of mass 198	126685	53.3		Pass
443	17.0 - 23.0% of mass 442	24862	10.5	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2461-CC2459	W048927.D	12/01/09	13:39	00:17	Continuing cal 5
OP31043-BS	W048928.D	12/01/09	14:11	00:49	Blank Spike
OP31043-MB	W048929.D	12/01/09	14:38	01:16	Method Blank
ZZZZZZ	W048930.D	12/01/09	15:05	01:43	(unrelated sample)
F69645-2	W048931.D	12/01/09	15:32	02:10	(used for QC only; not part of job F69760)
OP31043-MS	W048932.D	12/01/09	16:00	02:38	Matrix Spike
OP31043-MSD	W048933.D	12/01/09	16:27	03:05	Matrix Spike Duplicate
OP31054-MB	W048934.D	12/01/09	16:56	03:34	Method Blank
ZZZZZZ	W048935.D	12/01/09	17:23	04:01	(unrelated sample)
OP31073-BS	W048936.D	12/01/09	17:54	04:32	Blank Spike
OP31073-MB	W048937.D	12/01/09	18:21	04:59	Method Blank
ZZZZZZ	W048938.D	12/01/09	18:49	05:27	(unrelated sample)
ZZZZZZ	W048939.D	12/01/09	19:16	05:54	(unrelated sample)
ZZZZZZ	W048940.D	12/01/09	19:43	06:21	(unrelated sample)
F69760-12	W048944.D	12/01/09	21:31	08:09	KWTFS-SB114-SO-0002
F69760-13	W048946.D	12/01/09	22:26	09:04	KWTFS-SB129-SO-0002
F69760-14	W048947.D	12/01/09	22:53	09:31	KWTFS-SB132-SO-0002
F69760-15	W048948.D	12/01/09	23:20	09:58	KWTFS-SB147-SO-0002
OP31068-MB	W048949.D	12/01/09	23:47	10:25	Method Blank

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2461-DFTPP	Injection Date:	12/01/09
Lab File ID:	W048926.D	Injection Time:	13:22
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F69760-5	W048950.D	12/02/09	00:14	10:52	KWTFS-SB108-GW-0307
F69760-6	W048951.D	12/02/09	00:41	11:19	KWTFS-SB114-GW-0307

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2461-CC2459
Lab FileID: W048927.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\120109\W048927.D Vial: 2
Acq On : 1 Dec 2009 1:39 pm Operator: rayb
Sample : cc2459-5 Inst : MSBNA01
Misc : op30933,sw2461,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Dec 02 09:58:30 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00	6.26
2	S	Nitrobenzene-d5	0.343	0.354	-3.2	93	0.00	5.57
3	P	N-nitroso-di-n-propylamin	0.097	0.105	-8.2	102	0.00	5.44
4		Naphthalene	1.032	1.030	0.2	93	0.00	6.28
5		2-Methylnaphthalene	0.671	0.683	-1.8	96	-0.01	7.07
6		1-Methylnaphthalene	0.621	0.633	-1.9	96	-0.01	7.19
7	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	8.54
8	P	Hexachlorocyclopentadiene	0.331	0.253	23.6#	77	0.00	7.28
9	S	2-Fluorobiphenyl	1.725	1.614	6.4	80	0.00	7.57
10		Acenaphthylene	2.063	1.999	3.1	97	-0.01	8.31
11	C	Acenaphthene	1.243	1.213	2.4	97	-0.01	8.58
12	P	2,4-Dinitrophenol	0.112	0.099	11.6	78	0.00	8.65
13	P	4-Nitrophenol	0.257	0.221	14.0	77	0.01	8.78
14		Fluorene	1.365	1.312	3.9	96	-0.01	9.42
15	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00	11.02
16		Phenanthrene	1.272	1.274	-0.2	93	0.00	11.07
17		Anthracene	1.289	1.286	0.2	93	0.00	11.16
18	C	Fluoranthene	1.290	1.238	4.0	89	0.00	13.25
19	I	Chrysene-d12	1.000	1.000	0.0	82	0.00	15.92
20		Pyrene	2.210	2.402	-8.7	88	0.00	13.64
21	S	Terphenyl-d14	0.929	1.048	-12.8	88	0.00	14.04
22		Benzo[a]anthracene	1.834	1.809	1.4	79	0.00	15.90
23		Chrysene	1.729	1.801	-4.2	80	0.00	15.97
24	I	Perylene-d12	1.000	1.000	0.0	73	0.00	18.41
25		Benzo[b]fluoranthene	1.590	1.634	-2.8	70	0.00	17.79
26		Benzo[k]fluoranthene	1.610	1.799	-11.7	76	0.00	17.84
27	C	Benzo[a]pyrene	1.382	1.458	-5.5	72	0.00	18.31
28		Indeno[1,2,3-cd]pyrene	1.079	0.993	8.0	63	0.00	19.99
29		Dibenz[a,h]anthracene	1.049	1.015	3.2	66	0.00	20.05
30		Benzo[g,h,i]perylene	1.262	1.206	4.4	66	0.00	20.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W048895.D SIM_PAHA.M Wed Dec 02 09:59:20 2009

7.2.7

7

Raw Data: W048937.D

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31073-MB	W048937.D	1	12/01/09	RB	11/30/09	OP31073	SW2461

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69760-11, F69760-12, F69760-13, F69760-14, F69760-15

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	17	ug/kg	
208-96-8	Acenaphthylene	ND	67	17	ug/kg	
120-12-7	Anthracene	ND	67	8.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	6.7	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	6.7	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	6.7	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	6.7	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	6.7	3.3	ug/kg	
218-01-9	Chrysene	ND	6.7	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	6.7	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	8.3	ug/kg	
86-73-7	Fluorene	ND	67	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.7	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	8.3	ug/kg	
91-20-3	Naphthalene	ND	67	8.3	ug/kg	
85-01-8	Phenanthrene	ND	67	8.3	ug/kg	
129-00-0	Pyrene	ND	67	8.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	64%	40-105%
321-60-8	2-Fluorobiphenyl	60%	43-107%
1718-51-0	Terphenyl-d14	87%	45-119%

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2462-DFTPP	Injection Date:	12/02/09
Lab File ID:	W048953.D	Injection Time:	10:17
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	110306	39.8		Pass
68	Less than 2.0% of mass 69	270	0.1	(0.26) [a]	Pass
69	Mass 69 relative abundance	102466	37.0		Pass
70	Less than 2.0% of mass 69	529	0.19	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	141264	50.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	277291	100.0		Pass
199	5.0 - 9.0% of mass 198	19005	6.9		Pass
275	10.0 - 30.0% of mass 198	56416	20.3		Pass
365	1.0 - 100.0% of mass 198	5124	1.8		Pass
441	Present, but less than mass 443	26011	9.4	(75.6) [b]	Pass
442	40.0 - 100.0% of mass 198	173120	62.4		Pass
443	17.0 - 23.0% of mass 442	34406	12.4	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2462-CC2459	W048954.D	12/02/09	10:34	00:17	Continuing cal 5
OP31073-MB	W048955.D	12/02/09	11:33	01:16	Method Blank
ZZZZZZ	W048956.D	12/02/09	12:02	01:45	(unrelated sample)
F69760-11	W048957.D	12/02/09	12:29	02:12	KWTFS-SB108-SO-0002
OP31073-MS	W048958.D	12/02/09	12:56	02:39	Matrix Spike
OP31073-MSD	W048959.D	12/02/09	13:24	03:07	Matrix Spike Duplicate
F69760-12	W048960.D	12/02/09	13:51	03:34	KWTFS-SB114-SO-0002

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2462-CC2459
Lab FileID: W048954.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\120209\W048954.D Vial: 2
Acq On : 2 Dec 2009 10:34 am Operator: rayb
Sample : cc2459-5 Inst : MSBNA01
Misc : op30933,sw2462,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Dec 02 14:37:11 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00	6.24
2	S	Nitrobenzene-d5	0.343	0.307	10.5	77	-0.01	5.55
3	P	N-nitroso-di-n-propylamin	0.097	0.085	12.4	80	0.00	5.42
4		Naphthalene	1.032	1.036	-0.4	90	0.00	6.26
5		2-Methylnaphthalene	0.671	0.709	-5.7	96	0.00	7.05
6		1-Methylnaphthalene	0.621	0.654	-5.3	95	0.00	7.18
7	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00	8.52
8	P	Hexachlorocyclopentadiene	0.331	0.206	37.8#	64	0.00	7.26
9	S	2-Fluorobiphenyl	1.725	1.898	-10.0	97	-0.01	7.54
10		Acenaphthylene	2.063	1.898	8.0	95	0.00	8.30
11	C	Acenaphthene	1.243	1.239	0.3	102	0.00	8.57
12	P	2,4-Dinitrophenol	0.112	0.104	7.1	84	0.01	8.64
13	P	4-Nitrophenol	0.257	0.235	8.6	84	0.02	8.77
14		Fluorene	1.365	1.408	-3.2	106	0.00	9.41
15	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	11.00
16		Phenanthrene	1.272	1.270	0.2	103	0.00	11.05
17		Anthracene	1.289	1.278	0.9	102	0.01	11.14
18	C	Fluoranthene	1.290	1.305	-1.2	104	0.02	13.23
19	I	Chrysene-d12	1.000	1.000	0.0	109	0.00	15.90
20		Pyrene	2.210	2.092	5.3	103	0.00	13.63
21	S	Terphenyl-d14	0.929	0.973	-4.7	109	0.00	14.03
22		Benzo[a]anthracene	1.834	1.803	1.7	105	0.00	15.89
23		Chrysene	1.729	1.760	-1.8	105	0.00	15.95
24	I	Perylene-d12	1.000	1.000	0.0	108	0.00	18.40
25		Benzo[b]fluoranthene	1.590	1.619	-1.8	103	-0.02	17.78
26		Benzo[k]fluoranthene	1.610	1.721	-6.9	109	-0.02	17.83
27	C	Benzo[a]pyrene	1.382	1.459	-5.6	108	-0.02	18.30
28		Indeno[1,2,3-cd]pyrene	1.079	1.264	-17.1	120	-0.02	19.98
29		Dibenz[a,h]anthracene	1.049	1.265	-20.6#	122	-0.02	20.03
30		Benzo[g,h,i]perylene	1.262	1.431	-13.4	116	-0.02	20.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W048895.D SIM_PAHA.M Wed Dec 02 14:38:21 2009

7.7.8

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31073-MB	W048955.D	1	12/02/09	RB	11/30/09	OP31073	SW2462

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69760-11, F69760-12, F69760-13, F69760-14, F69760-15

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	17	ug/kg	
208-96-8	Acenaphthylene	ND	67	17	ug/kg	
120-12-7	Anthracene	ND	67	8.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	6.7	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	6.7	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	6.7	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	6.7	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	6.7	3.3	ug/kg	
218-01-9	Chrysene	ND	6.7	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	6.7	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	8.3	ug/kg	
86-73-7	Fluorene	ND	67	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.7	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	8.3	ug/kg	
91-20-3	Naphthalene	ND	67	8.3	ug/kg	
85-01-8	Phenanthrene	ND	67	8.3	ug/kg	
129-00-0	Pyrene	ND	67	8.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	57%	40-105%
321-60-8	2-Fluorobiphenyl	70%	43-107%
1718-51-0	Terphenyl-d14	81%	45-119%

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2463-DFTPP	Injection Date:	12/02/09
Lab File ID:	W048961.D	Injection Time:	15:05
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	108489	36.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	101915	34.0		Pass
70	Less than 2.0% of mass 69	520	0.17	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	148227	49.4		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	299923	100.0		Pass
199	5.0 - 9.0% of mass 198	19776	6.6		Pass
275	10.0 - 30.0% of mass 198	63765	21.3		Pass
365	1.0 - 100.0% of mass 198	6006	2.0		Pass
441	Present, but less than mass 443	30928	10.3	(79.6) [b]	Pass
442	40.0 - 100.0% of mass 198	202197	67.4		Pass
443	17.0 - 23.0% of mass 442	38864	13.0	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2463-IC2463	W048963.D	12/02/09	17:00	01:55	Initial cal 1
SW2463-IC2463	W048964.D	12/02/09	17:27	02:22	Initial cal 2
SW2463-IC2463	W048965.D	12/02/09	17:54	02:49	Initial cal 3
SW2463-ICC2463	W048966.D	12/02/09	18:21	03:16	Initial cal 4
SW2463-IC2463	W048967.D	12/02/09	18:48	03:43	Initial cal 5
SW2463-IC2463	W048968.D	12/02/09	19:15	04:10	Initial cal 6
SW2463-IC2463	W048969.D	12/02/09	19:43	04:38	Initial cal 7
SW2463-ICV2463	W048970.D	12/02/09	20:10	05:05	Initial cal verification 5

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2463-ICC2463
Lab FileID: W048966.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Thu Dec 03 14:48:09 2009
Response via : Initial Calibration

Calibration Files
L1 =W048963.D L2 =W048964.D L3 =W048965.D L4 =W048966.D
L5 =W048967.D L6 =W048968.D L7 =W048969.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.308	0.303	0.287	0.282	0.318	0.301	0.301	0.300	4.13
3)P N-nitroso-di-n-pr		0.092	0.084	0.078	0.085	0.080	0.074	0.082	7.57
4) Naphthalene	1.140	1.137	1.037	0.960	1.040	0.951	0.920	1.026	8.59
5) 2-Methylnaphthale	0.742	0.754	0.697	0.646	0.705	0.646	0.627	0.688	7.24
6) 1-Methylnaphthale	0.685	0.699	0.647	0.600	0.656	0.611	0.583	0.640	6.85
7) I Acenaphthene-d10	ISTD								
8)P Hexachlorocyclope		0.193	0.203	0.209	0.240	0.246	0.236	0.221	10.13
9)S 2-Fluorobiphenyl	1.692	2.086	1.964	1.562	1.961	1.876	1.778	1.845	9.76
10) Acenaphthylene	2.106	2.117	1.957	1.889	1.958	1.777	1.744	1.935	7.52
11)C Acenaphthene	1.324	1.333	1.231	1.180	1.238	1.166	1.125	1.228	6.40
12)P 2,4-Dinitrophenol		0.054	0.078	0.079	0.122	0.147	0.144	0.104	37.48#
13)P 4-Nitrophenol		0.221	0.222	0.218	0.253	0.257	0.245	0.236	7.40
14) Fluorene	1.487	1.510	1.421	1.342	1.394	1.338	1.193	1.384	7.70
15) I Phenanthrene-d10	ISTD								
16) Phenanthrene	1.378	1.391	1.265	1.221	1.277	1.194	1.139	1.266	7.32
17) Anthracene	1.345	1.361	1.267	1.215	1.292	1.200	1.148	1.261	6.19
18)C Fluoranthene	1.341	1.404	1.287	1.214	1.287	1.228	1.174	1.277	6.19
19) I Chrysene-d12	ISTD								
20) Pyrene	2.318	2.252	2.138	2.079	2.150	2.031	1.932	2.129	6.14
21)S Terphenyl-d14	0.995	0.963	0.941	0.937	0.984	0.928	0.892	0.949	3.71
22) Benzo[a]anthracen	1.817	1.758	1.656	1.616	1.760	1.796	1.729	1.733	4.21
23) Chrysene	1.686	1.734	1.661	1.605	1.746	1.755	1.694	1.698	3.13
24) I Perylene-d12	ISTD								
25) Benzo[b]fluoranth	1.506	1.467	1.422	1.421	1.587	1.670	1.625	1.528	6.53
26) Benzo[k]fluoranth	1.511	1.558	1.518	1.538	1.718	1.670	1.686	1.600	5.50
27)C Benzo[a]pyrene	1.279	1.293	1.253	1.258	1.430	1.452	1.426	1.342	6.68
28) Indeno[1,2,3-cd]p	1.049	1.019	0.965	0.965	1.125	1.148	1.117	1.055	7.21
29) Dibenz[a,h]anthra	0.969	0.958	0.929	0.935	1.116	1.164	1.148	1.031	10.27
30) Benzo[g,h,i]peryl	1.295	1.217	1.136	1.148	1.319	1.312	1.285	1.245	6.23

(#) = Out of Range

SIM_PAHA.M Thu Dec 03 14:52:11 2009

7.7.9

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SW2464-DFTPP	Injection Date:	12/03/09
Lab File ID:	W048971.D	Injection Time:	15:15
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107251	40.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	98520	37.2		Pass
70	Less than 2.0% of mass 69	514	0.19	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	135667	51.3		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	264605	100.0		Pass
199	5.0 - 9.0% of mass 198	17813	6.7		Pass
275	10.0 - 30.0% of mass 198	52266	19.8		Pass
365	1.0 - 100.0% of mass 198	4668	1.8		Pass
441	Present, but less than mass 443	21715	8.2	(76.8) [b]	Pass
442	40.0 - 100.0% of mass 198	144768	54.7		Pass
443	17.0 - 23.0% of mass 442	28277	10.7	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW2464-CC2463	W048972.D	12/03/09	17:04	01:49	Continuing cal 4
OP31118-BS	W048973.D	12/03/09	17:31	02:16	Blank Spike
OP31118-MB	W048974.D	12/03/09	17:59	02:44	Method Blank
F69760-10	W048975.D	12/03/09	18:26	03:11	KWTFS-SB147-GW-0307
ZZZZZZ	W048977.D	12/03/09	19:20	04:05	(unrelated sample)
ZZZZZZ	W048980.D	12/03/09	20:41	05:26	(unrelated sample)
ZZZZZZ	W048981.D	12/03/09	21:08	05:53	(unrelated sample)
F69838-8	W048982.D	12/03/09	21:35	06:20	(used for QC only; not part of job F69760)
OP31118-MS	W048983.D	12/03/09	22:02	06:47	Matrix Spike
OP31118-MSD	W048984.D	12/03/09	22:30	07:15	Matrix Spike Duplicate
ZZZZZZ	W048985.D	12/03/09	22:57	07:42	(unrelated sample)
OP31087-BS	W048986.D	12/03/09	23:24	08:09	Blank Spike
OP31087-MB	W048987.D	12/03/09	23:51	08:36	Method Blank
ZZZZZZ	W048988.D	12/04/09	00:18	09:03	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SW2464-CC2463
Lab FileID: W048972.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\120309\W048972.D Vial: 2
Acq On : 3 Dec 2009 5:04 pm Operator: rayb
Sample : cc2463-4 Inst : MSBNA01
Misc : op31118,sw2464,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAHA.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Thu Dec 03 16:38:43 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	6.24
2	S	Nitrobenzene-d5	0.300	0.362	-20.7#	148	0.00	5.55
3	P	N-nitroso-di-n-propylamin	0.082	0.093	-13.4	138	0.00	5.42
4		Naphthalene	1.026	1.150	-12.1	138	0.00	6.26
5		2-Methylnaphthalene	0.688	0.775	-12.6	138	0.00	7.05
6		1-Methylnaphthalene	0.640	0.725	-13.3	139	0.00	7.17
7	I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00	8.52
8	P	Hexachlorocyclopentadiene	0.221	0.269	-21.7#	154	0.00	7.26
9	S	2-Fluorobiphenyl	1.845	2.150	-16.5	165	0.00	7.54
10		Acenaphthylene	1.935	2.256	-16.6	143	0.00	8.29
11	C	Acenaphthene	1.228	1.391	-13.3	141	0.00	8.56
12	P	2,4-Dinitrophenol	0.104	0.119	-14.4	180	0.00	8.63
13	P	4-Nitrophenol	0.236	0.264	-11.9	145	0.01	8.75
14		Fluorene	1.384	1.547	-11.8	138	0.00	9.40
15	I	Phenanthrene-d10	1.000	1.000	0.0	116	0.00	11.00
16		Phenanthrene	1.266	1.454	-14.8	138	0.00	11.04
17		Anthracene	1.261	1.480	-17.4	141	0.00	11.14
18	C	Fluoranthene	1.277	1.486	-16.4	142	0.00	13.22
19	I	Chrysene-d12	1.000	1.000	0.0	116	0.00	15.91
20		Pyrene	2.129	2.543	-19.4	142	0.00	13.62
21	S	Terphenyl-d14	0.949	1.099	-15.8	136	0.00	14.03
22		Benzo[a]anthracene	1.733	1.965	-13.4	141	0.00	15.89
23		Chrysene	1.698	1.971	-16.1	143	0.00	15.95
24	I	Perylene-d12	1.000	1.000	0.0	114	0.00	18.40
25		Benzo[b]fluoranthene	1.528	1.733	-13.4	139	0.00	17.78
26		Benzo[k]fluoranthene	1.600	1.889	-18.1	140	0.00	17.83
27	C	Benzo[a]pyrene	1.342	1.514	-12.8	137	0.00	18.29
28		Indeno[1,2,3-cd]pyrene	1.055	1.145	-8.5	135	0.00	19.97
29		Dibenz[a,h]anthracene	1.031	1.104	-7.1	135	0.00	20.02
30		Benzo[g,h,i]perylene	1.245	1.398	-12.3	139	0.00	20.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W048966.D SIM_PAHA.M Thu Dec 03 17:30:51 2009

7.7.11

7

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SU743-DFTPP	Injection Date:	11/25/09
Lab File ID:	U015250.D	Injection Time:	10:33
Instrument ID:	GCMSU		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	56882	39.1		Pass
68	Less than 2.0% of mass 69	636	0.44	(1.0) [a]	Pass
69	Mass 69 relative abundance	61577	42.4		Pass
70	Less than 2.0% of mass 69	322	0.22	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	72090	49.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	145394	100.0		Pass
199	5.0 - 9.0% of mass 198	9501	6.5		Pass
275	10.0 - 30.0% of mass 198	38269	26.3		Pass
365	1.0 - 100.0% of mass 198	4153	2.9		Pass
441	Present, but less than mass 443	17414	12.0	(72.6) [b]	Pass
442	40.0 - 100.0% of mass 198	119584	82.2		Pass
443	17.0 - 23.0% of mass 442	24000	16.5	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU743-IC743	U015251.D	11/25/09	10:53	00:20	Initial cal 1
SU743-IC743	U015252.D	11/25/09	11:19	00:46	Initial cal 2
SU743-IC743	U015253.D	11/25/09	12:05	01:32	Initial cal 3
SU743-ICC743	U015254.D	11/25/09	12:31	01:58	Initial cal 4
SU743-IC743	U015255.D	11/25/09	12:57	02:24	Initial cal 5
SU743-IC743	U015256.D	11/25/09	13:23	02:50	Initial cal 6
SU743-IC743	U015257.D	11/25/09	13:49	03:16	Initial cal 7
SU743-ICV743	U015258.D	11/25/09	14:15	03:42	Initial cal verification 5

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SU743-ICC743
Lab FileID: U015254.D

Response Factor Report MSBNA04

Method : C:\msdchem\2\METHODS\SIM_PAHC.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Sat Nov 28 21:02:38 2009
Response via : Initial Calibration

Calibration Files
L1 =U015251.D L2 =U015252.D L3 =U015253.D L4 =U015254.D
L5 =U015255.D L6 =U015256.D L7 =U015257.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.429	0.405	0.401	0.393	0.392	0.382	0.382	0.398	4.14
3)P N-nitroso-di-n-pr		0.141	0.134	0.122	0.106	0.086	0.083	0.112	21.97
4) Naphthalene	1.319	1.228	1.180	1.107	1.009	0.853	0.798	1.071	18.09
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 1.15421 *A + -0.02894 *A^2									
5) 2-Methylnaphthale	0.848	0.789	0.764	0.711	0.666	0.580	0.552	0.701	15.59
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.74137 *A + -0.01544 *A^2									
6) 1-Methylnaphthale	0.772	0.717	0.690	0.647	0.607	0.527	0.511	0.639	15.19
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 0.66658 *A + -0.01290 *A^2									
7) I Acenaphthene-d10	----------ISTD----------								
8)P Hexachlorocyclope		0.234	0.281	0.328	0.381	0.370	0.344	0.323	17.34
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
Response Ratio = 0.00000 + 0.38305 *A + -0.00103 *A^2									
9)S 2-Fluorobiphenyl	1.971	1.851	1.819	1.794	1.743	1.648	1.605	1.776	7.00
10) Acenaphthylene	2.714	2.530	2.430	2.298	2.146	1.886	1.802	2.258	14.82
11)C Acenaphthene	1.629	1.515	1.462	1.384	1.299	1.160	1.096	1.364	14.06
12)P 2,4-Dinitrophenol		0.039	0.064	0.097	0.128	0.142	0.167	0.106	45.74
13)P 4-Nitrophenol		0.219	0.253	0.256	0.276	0.289	0.284	0.263	9.79
14) Fluorene	1.775	1.632	1.603	1.503	1.430	1.290	1.237	1.496	12.86
15) I Phenanthrene-d10	----------ISTD----------								
16) Phenanthrene	1.623	1.510	1.460	1.372	1.291	1.167	1.121	1.363	13.43
17) Anthracene	1.604	1.499	1.465	1.374	1.294	1.150	1.092	1.354	13.81
18) Carbazole								0.000#	-1.00
19)C Fluoranthene	1.652	1.526	1.497	1.381	1.322	1.195	1.157	1.390	13.00
20) I Chrysene-d12	----------ISTD----------								
21) Pyrene	2.160	2.001	2.013	1.960	1.873	1.697	1.641	1.906	9.66
22)S Terphenyl-d14	0.983	0.933	0.905	0.904	0.882	0.836	0.829	0.896	6.01
23) Benzo[a]anthracen	2.056	1.842	1.778	1.723	1.760	1.742	1.770	1.810	6.33
24) Chrysene	1.817	1.735	1.727	1.691	1.705	1.697	1.690	1.723	2.62
25) I Perylene-d12	----------ISTD----------								
26) Benzo[b]fluoranth	1.688	1.602	1.596	1.582	1.635	1.684	1.685	1.639	2.86
27) Benzo[k]fluoranth	1.836	1.686	1.706	1.731	1.760	1.737	1.781	1.748	2.85
28)C Benzo[a]pyrene	1.553	1.428	1.416	1.394	1.448	1.480	1.503	1.460	3.78
29) Indeno[1,2,3-cd]p	1.205	1.112	1.127	1.072	1.171	1.207	1.205	1.157	4.66
30) Dibenz[a,h]anthra	1.172	1.097	1.137	1.062	1.143	1.204	1.210	1.146	4.73

7.7.1

7

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SU743-ICC743
Lab FileID: U015254.D

31)	Benzo[g,h,i]peryl	1.497	1.392	1.409	1.317	1.400	1.430	1.424	1.410	3.80

(#) = Out of Range

SIM_PAHC.M Sat Nov 28 21:04:52 2009

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SU747-DFTPP	Injection Date:	11/30/09
Lab File ID:	U015334.D	Injection Time:	12:52
Instrument ID:	GCMSU		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	40981	41.3		Pass
68	Less than 2.0% of mass 69	271	0.27	(0.61) [a]	Pass
69	Mass 69 relative abundance	44477	44.8		Pass
70	Less than 2.0% of mass 69	240	0.24	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	52072	52.4		Pass
197	Less than 1.0% of mass 198	331	0.33		Pass
198	Base peak, 100% relative abundance	99320	100.0		Pass
199	5.0 - 9.0% of mass 198	6669	6.7		Pass
275	10.0 - 30.0% of mass 198	24847	25.0		Pass
365	1.0 - 100.0% of mass 198	2711	2.7		Pass
441	Present, but less than mass 443	10449	10.5	(75.0) [b]	Pass
442	40.0 - 100.0% of mass 198	69305	69.8		Pass
443	17.0 - 23.0% of mass 442	13924	14.0	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU747-CC743	U015335.D	11/30/09	13:10	00:18	Continuing cal 5
OP31054-BS	U015336.D	11/30/09	13:51	00:59	Blank Spike
OP31054-MB	U015337.D	11/30/09	14:17	01:25	Method Blank
ZZZZZZ	U015338.D	11/30/09	14:45	01:53	(unrelated sample)
ZZZZZZ	U015339.D	11/30/09	15:11	02:19	(unrelated sample)
ZZZZZZ	U015340.D	11/30/09	15:37	02:45	(unrelated sample)
ZZZZZZ	U015341.D	11/30/09	16:03	03:11	(unrelated sample)
F69760-2	U015342.D	11/30/09	16:29	03:37	KWTFS-SB122-GW-0307
F69772-1	U015343.D	11/30/09	16:56	04:04	(used for QC only; not part of job F69760)
OP31054-MS	U015344.D	11/30/09	17:22	04:30	Matrix Spike
OP31054-MSD	U015345.D	11/30/09	17:48	04:56	Matrix Spike Duplicate
ZZZZZZ	U015346.D	11/30/09	18:14	05:22	(unrelated sample)
OP31023-MB	U015347.D	11/30/09	18:40	05:48	Method Blank
ZZZZZZ	U015348.D	11/30/09	19:07	06:15	(unrelated sample)
OP31023-MSD	U015349.D	11/30/09	19:33	06:41	Matrix Spike Duplicate
OP31050-MB	U015350.D	11/30/09	19:59	07:07	Method Blank
ZZZZZZ	U015351.D	11/30/09	20:25	07:33	(unrelated sample)
ZZZZZZ	U015352.D	11/30/09	20:51	07:59	(unrelated sample)
ZZZZZZ	U015353.D	11/30/09	21:23	08:31	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SU747-DFTPP	Injection Date:	11/30/09
Lab File ID:	U015334.D	Injection Time:	12:52
Instrument ID:	GCMSU		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	U015354.D	11/30/09	21:49	08:57	(unrelated sample)
ZZZZZZ	U015355.D	11/30/09	22:15	09:23	(unrelated sample)
ZZZZZZ	U015357.D	11/30/09	23:08	10:16	(unrelated sample)
ZZZZZZ	U015358.D	11/30/09	23:34	10:42	(unrelated sample)

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SU747-CC743
Lab FileID: U015335.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\113009\U015335.D Vial: 2
Acq On : 30 Nov 2009 1:10 pm Operator: nancyf
Sample : cc743-5 Inst : MSBNA04
Misc : op31001,su747,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\SIM_PAHC.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Tue Dec 01 08:52:42 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	71	0.00	5.50
2	S	Nitrobenzene-d5	0.398	0.413	-3.8	75	0.00	4.90
3	P	N-nitroso-di-n-propylamin	0.112	0.105	6.3	70	0.00	4.79
			Amount	Calc.	%Drift			
4		Naphthalene	20.000	21.777	-8.9	76	0.00	5.52
5		2-Methylnaphthalene	20.000	21.565	-7.8	76	0.00	6.25
6		1-Methylnaphthalene	20.000	21.787	-8.9	76	0.00	6.36
			AvgRF	CCRF	%Dev			
7	I	Acenaphthene-d10	1.000	1.000	0.0	71	0.00	7.61
			Amount	Calc.	%Drift			
8	P	Hexachlorocyclopentadiene	50.000	56.869	-13.7	78	0.00	6.45
			AvgRF	CCRF	%Dev			
9	S	2-Fluorobiphenyl	1.776	1.863	-4.9	76	0.00	6.70
10		Acenaphthylene	2.258	2.283	-1.1	75	0.00	7.40
11	C	Acenaphthene	1.364	1.393	-2.1	76	0.00	7.66
12	P	2,4-Dinitrophenol	0.106	0.120	-13.2	66	0.00	7.74
13	P	4-Nitrophenol	0.263	0.288	-9.5	74	0.00	7.95
14		Fluorene	1.496	1.553	-3.8	77	0.00	8.46
15	I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00	10.02
16		Phenanthrene	1.363	1.394	-2.3	77	0.00	10.07
17		Anthracene	1.354	1.405	-3.8	78	0.00	10.16
18		Carbazole		----------NA----------				
19	C	Fluoranthene	1.390	1.435	-3.2	78	0.00	12.21
20	I	Chrysene-d12	1.000	1.000	0.0	73	0.00	14.87
21		Pyrene	1.906	2.101	-10.2	82	0.00	12.61
22	S	Terphenyl-d14	0.896	0.930	-3.8	77	0.00	13.04
23		Benzo[a]anthracene	1.810	1.743	3.7	72	0.00	14.86
24		Chrysene	1.723	1.859	-7.9	79	0.00	14.92
25	I	Perylene-d12	1.000	1.000	0.0	72	0.00	17.35
26		Benzo[b]fluoranthene	1.639	1.607	2.0	71	0.00	16.75
27		Benzo[k]fluoranthene	1.748	1.942	-11.1	79	0.00	16.79
28	C	Benzo[a]pyrene	1.460	1.419	2.8	70	0.00	17.25
29		Indeno[1,2,3-cd]pyrene	1.157	0.992	14.3	61	0.00	18.91
30		Dibenz[a,h]anthracene	1.146	1.059	7.6	66	0.00	18.97

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SU747-CC743
Lab FileID: U015335.D

31	Benzo[g,h,i]perylene	1.410	1.452	-3.0	74	0.00	19.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U015255.D SIM_PAHC.M Tue Dec 01 10:02:23 2009

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31054-MB	U015337.D	1	11/30/09	NAF	11/27/09	OP31054	SU747

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F69760-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	63% [a]	42-108%
321-60-8	2-Fluorobiphenyl	58% [a]	40-106%
1718-51-0	Terphenyl-d14	70% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ACCUTEST LABORATORIES SE

DATE:	09.30.04
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FLPRO.RM
ACQ. METHOD:	L
PROC. METHOD:	L
CALIB. DATE:	09.30.04
RUN BATCH:	GIJ2061

ANALYST:	SL
MECL2 LOT #:	H3150-7
SIGNAL 1 SURR. AREA/CONC:	
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 59444	1	ccb	FLPRO				BDL
IJ 45	2	ic2061-255			75:1000		✓ 53324
IJ 46	3	-340			10		✓
IJ 47	4	-680			5		✓
IJ 48	5	icc2061-1360			2.5		✓
IJ 49	6	ic2061-2040			3.5		✓
IJ 50	7	-2720			4.5		✓
IJ 51	8	-3400			1		✓ SL
IJ 52	9	icv2061-1360			80:500		p935 4603 D
IJ 53	1	ccb					BDL
IJ							Signal recorded from
IJ							wrong detector
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ 59979							SL

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

ACCUTEST LABORATORIES SE

DATE:	11/30/09
COLUMN TYPE:	DA-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FLPRO
ACQ. METHOD:	FLPRO_h
PROC. METHOD:	FLPRO_h
CALIB. DATE:	09/30/09
RUN BATCH:	GIJ2101

ANALYST:	ME
MECL2 LOT #:	1731507
SIGNAL 1 SURR. AREA/CONC:	1043749/40
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61375	1	CC2061-1360	FLPRO	53360	2.5		pass
IJ 76	2	-340		↓	x10		pass
IJ 77	3	CCB					BDL
IJ 78	4	OP31020-MS		OP31020	x1		BDL
IJ 79	5	F69671-1			x1		soil ↓ use reextract
IJ 80	6	F69671-7			x10		✓
IJ 81	7	-10		↓	x1		✓
IJ 82	8	OP31030-BS		OP31030	x1		✓
IJ 83	9	-MS		↓	↓		BDL
IJ 84	10	F69671-1		↓	↓		✓
IJ 85	11	CC2061-1360		53360	2.5		pass
IJ 86	12	OP31049-BS		OP31049	x1		✓
IJ 87	13	-MS					BDL
IJ 88	14	F69664-1					BDL
IJ 89	15	-2					BDL
IJ 90	16	-3					✓
IJ 91	17	-4			↓		BDL
IJ 92	18	F69668-1			x5		(BMX1)
IJ 93	19	-2			↓		(BMX1)
IJ 94	20	-3	↓	↓			(BMX1)

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

ACCUTEST LABORATORIES SE

DATE: 11/30/09
COLUMN TYPE: DB-5
AMOUNT INJECTED: 1 ul
INSTRUMENT: FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS: FLRAD
ACQ. METHOD: FLRAD_B
PROC. METHOD: FLRAD_B
CALIB. DATE: 09/30/09
RUN BATCH: GIJ 2101

ANALYST: ME
MECL2 LOT #: HF31507
SIGNAL 1 SURR. AREA/CONC: 1043745/40
SIGNAL 2 SURR. AREA/CONC:

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61395	21	F69668-4	FLRAD	OP31044	X5		BMX1
IJ 96	22	CL2061-1360		53360	2.5		passed
IJ 97	23	CCB					BDL
IJ 98	24	F69760-2	12/1/09	OP31044	X5		BMX1
IJ 99	25	F69691-1					BMX1
IJ 400	26	-2					BMX1
IJ 01	27	-3			X1		BDL
IJ 02	28	-4			X5		BMX1
IJ 03	29	OP31044-MS					BMX1
IJ 04	30	-MSD					BMX1
IJ 05	31	F69691-5			X1		BDL
IJ 06	32	CL2061-1360		53360	2.5		passed
IJ 07	33	OP31042-BS		OP31042	X1		✓
IJ 08	34	-MB					BDL
IJ 09	35	F69707-1					BDL
IJ 10	36	OP31042-MS					✓
IJ 11	37	-MSD					✓
IJ 12	38	OP31056-BS		OP31056			✓
IJ 13	39	-MB					BDL
IJ 14	40	F69707-2					BDL

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

ACCUTEST LABORATORIES SE

DATE:	11/30/09
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FLPMO
ACQ. METHOD:	FLPMO-B
PROC. METHOD:	FLPMO-B
CALIB. DATE:	09/30/09
RUN BATCH:	GIJ 2101

ANALYST:	ME
MECL2 LOT #:	H31507
SIGNAL 1 SURR. AREA/CONC:	1043749/40
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61415	41	F69741-1	FLPMO	OP31056	x1		✓
IJ 16	42	-2		↓	↓		✓
IJ 17	43	CC2061-1360		S3360	2.5		passed
IJ 18	44	CCB					BRL
IJ 19	45	F69757-7		OP31056	x1		✓
IJ 20	46	OP31056-MS					✓
IJ 21	47	-MSD					✓
IJ 22	48	F69757-8					✓
IJ 23	49	-9				PDB	BMX10
IJ 24	50	F69760-4					BMX1 CO
IJ 25	51	-5				PDB	BMX4
IJ 26	52	-6			x5	PDB	BMX20
IJ 27	53	-7		↓	x1		BMX1 CO
IJ 28	54	CC2061-1360		S3360	2.5		passed
IJ 29	55	CCB					BRL
IJ 30	56	F69760-8		OP31056	x1		✓
IJ 31	57	-9		↓	x5		BMX1
IJ 32	58	-10			↓		BMX1
IJ 33	54	ECC2061-1360		S3360	2.5		passed
IJ			[illegible] 12/1/09				

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
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Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	12-01-2009
COLUMN TYPE:	05-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	TL-PRO
ACQ. METHOD:	"
PROC. METHOD:	"
CALIB. DATE:	09.30.09
RUN BATCH:	GIJ 2102

ANALYST:	MARK
MECL2 LOT #:	H13507
SIGNAL 1 SURR. AREA/CONC:	1108348
SIGNAL 2 SURR. AREA/CONC:	— / —

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61454	1	CC7061 -1360	FL-PRO	53360	25		PASS
IJ 35	2	CC7061 - 340	"	"	10x		PASS
IJ 36	3	CCB	"	—	—		ND
IJ 37	4	OP31049 - MB	"	OP31049	1x		ND
IJ 38	5	F69669 -1	"	"	"		✓
IJ 39	6	" -2	"	"	"		✓
IJ 40	7	" -3	"	"	"		✓
IJ 41	8	" -4	"	"	"		✓
IJ 42	9	F69760 -2	"	"	"		✓
IJ 43	10	F69691 -1	"	"	"		✓
IJ 44	11	" -4	"	"	"		✓
IJ 45	12	OP31049 -MS	"	"	"		✓
IJ 46	13	" -MSD	"	"	"		✓
IJ 47	14	CC7061 -1360	"	53360	2.5		PASS
IJ 48	15	CCB	"	—	—		ND
IJ 49	16	F69691 - 2	"	OP31049	1x		ND
IJ 50	17	OP31056 -MB	"	OP31056	"		ND
IJ 51	18	F69757 -9,10	"	"	10x	PDB	✓
IJ 52	19	F69760 -4	"	"	1x		ND
IJ 61453	20	-5,4	"	"	4x	PDB	✓

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

(1-3) (1) Analyst's Signature: Mark

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F69760

ACCUTEST LABORATORIES SE

DATE:	12-01-2009
COLUMN TYPE:	08-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2102

ANALYST:	MARK
MECL2 LOT #:	H31507
SIGNAL 1 SURR. AREA/CONC:	1108348
SIGNAL 2 SURR. AREA/CONC:	—— 1 ——

DATA FILE	ALS #	SAMPLE ID	09 SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61454	21	F69760 -2,20	FL-PRO	OP31056	20X		✓
IJ 55	22	-7	↓	↓	1X	PDB	ND
IJ 56	23	-9			↓	PDB	✓
IJ 57	24	-10		↓	↓		✓ Low Surr (Reextract)
IJ 58	25	CC2061 -1360		S3360	2:5		PASS
IJ 59	26	OP31072 -BS		OP31072	1X		✓
IJ 60	27	↓ -MD		↓	↓		ND
IJ 61	28	F69707 -1					ND
IJ 62	29	F69735 -1					✓
IJ 63	30	OP31072 -MS				PDB	✓
IJ 64	31	↓ -MSD			↓	↓	✓
IJ 65	32	F69735 -2 10			10X		✓ RR50X (DNR)
IJ 66	33	F69736 -1		↓	1X		✓ RR for C.O. (DNR)
IJ 67	34	CC2061 -1360		S3360	2:5		PASS
IJ 68	35	CCB		——	——		ND
IJ 69	36	F69760 -11 10		OP31072	10X	PDB	✓ RR20X (DNR)
IJ 70	37	↓ -12 10		↓	↓	PDB	✓ RR1X (DNR)
IJ 71	38	-13			1X	PDB	ND
IJ 72	39	-14 10			10X	PDB	ND RR1X (DNR)
IJ 61473	40	-15 10	↓	↓	↓		ND RR1X (DNR)

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

ACCUTEST LABORATORIES SE

DATE:	12-01-2009
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2102

ANALYST:	MARK
MECL2 LOT #:	F131507
SIGNAL 1 SURR. AREA/CONC:	110348
SIGNAL 2 SURR. AREA/CONC:	—— 1 ——

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61474	41	F69760 -7	FL-PRO	OP3107	1X	PDB	✓
IJ 75	42	F69783 (3)10	↓	↓	10X		✓ IRR 100X (DNR) ←
IJ 76	43	CC2061 -1360		S3360	2.5		PASS
IJ 77	44	OP31038 -BS		OP31038	1X		✓
IJ 78	45	↓ -MB	12/1/2009		↓		ND
IJ 79	46	~~F69693 -25~~			5X	PDB	F69693-24,5 ✓
IJ 80	47	~~OP31038 -MS~~			1X	PDB	F69693-25 ✓
IJ 81	48	~~↓ -MSD~~			↓		OP31038-MS ✓
IJ 82	49	OP31038 -MSD					✓
IJ 61483	50	CC2061 -1360		S3360	2.5		PASS
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							

(FEA 12-02-2009)

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

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(3-3) (3)

Analyst's Signature: _____

ACCUTEST LABORATORIES SE

DATE:	12-02-2009
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2103

ANALYST:	ENOE
MECL2 LOT #:	H31502
SIGNAL 1 SURR. AREA/CONC:	1054339
SIGNAL 2 SURR. AREA/CONC:	~1

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61484	1	CCB	FL-PRO	—	—		ND
IJ 85	1	↓	↓	—	—		ND
IJ 86	1	↓	↓	—	—		ND
IJ 87	2	CC2061 -1360	↓	S3360	2:5		PASS
IJ 89	3	CC2061 - 340	↓	↓	10X		PASS
IJ 89	4	OP31072 - MB	↓	OP31072	1X		ND
IJ 90	5	F69735 -2,50	↓	↓	50X		✓ RR 50X (New) (DWR)
IJ 91	6	F69736 -1,CC	↓	↓	1X	PDB	✓
IJ 92	7	F69760 -11,10	↓	↓	20X	PDB	✓
IJ 93	8	-12,RR	↓	↓	1X	PDB	✓
IJ 94	9	-14,RR	↓	↓	↓	PDB	✓
IJ 95	10	-15,RR	↓	↓	↓	PDB	✓
IJ 96	11	F69783 -3,100	↓	↓	100X	PDB	✓
IJ 97	12	CC2061 -1360	↓	S3360	2:5		PASS
IJ 98	13	OP31091 - BS	↓	OP31091	X		✓
IJ ↓ 99	14	↓ -MB	↓	↓	↓		ND
IJ 61500	15	F69792 -1	↓	↓	↓	PDB	ND
IJ ↓ 01	16	↓ -3	↓	↓	↓	PDB	ND
IJ ↓ 02	17	↓ -4	↓	↓	↓		ND
IJ 61503	18	F69793 -1	↓	↓	↓		ND

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

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(1-2) ①

Analyst's Signature: _____

ACCUTEST LABORATORIES SE

DATE:	12-02-2009
COLUMN TYPE:	OB-S
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2103

ANALYST:	EVOC
MECL2 LOT #:	H31507
SIGNAL 1 SURR. AREA/CONC:	1054339
SIGNAL 2 SURR. AREA/CONC:	— / —

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61504	19	F69783 -2	FL-PRO	OP31091	1X	PDB	✓
IJ 05	20	F69791 -1	↓	↓	↓	PDB	✓
IJ 06	21	↓ -2				PDB	✓
IJ 07	22	↓ -3		↓	↓	PDB	✓
IJ 08	23	CC2061-1360		S3360	2.5		PASS
IJ 09	24	CCB		—	—		ND
IJ 10	25	F69791 -4		OP31091	1X	PDB	✓
IJ 11	26	↓ -5		↓	↓	PDB	✓
IJ 12	27	↓ -6				PDB	✓
IJ 13	28	OP31091 -MS					✓
IJ 14	29	↓ -MSD		↓	↓		✓
IJ 15	30	F69735-2,50		OP31072	50X		✓ 1 Report this one.
IJ 61516	31	ECC2061-1360	↓	S3360	2.5		PASS
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							

FEA 12/03/2009

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

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(2-2) (2)

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	12-03-09
COLUMN TYPE:	03-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2104

ANALYST:	BNOE
MECL2 LOT #:	131507
SIGNAL 1 SURR. AREA/CONC:	129794 / 40
SIGNAL 2 SURR. AREA/CONC:	— / —

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61517	1	CCB	FL-PRO	—	—		ND
IJ 18	2	CC2061 -1360		S3360	2.5		PASS
IJ 19	3	CC7061 -340		↓	10X		PASS
IJ 20	4	OP31123 - BS		OP31123	1X	PDB	✓
IJ 21	5	↓ -MB		↓	↓	PDB	ND
IJ 22	6	F69760 -10CES				PDB	✓ Failed Surr.
IJ 23	7	F69838 -2			↓	PDB	ND
IJ 24	8	↓ -3,4			4X	PDB	✓
IJ 25	9	(-5),4			4X	PDB	ND RR 1X (DNR) ←
IJ 26	10	-6			1X	PDB	ND
IJ 27	11	↓ -8			—		ND
IJ 28	12	OP31123 -MS					✓
IJ 29	13	↓ -MSD		↓	↓		✓
IJ 30	14	CC7061 -1360		S3360	2.5X 9 injections		PASS
IJ 31	15	F69838 -7		OP31123	1X		ND
IJ 32	16	-9		↓	↓	PDB	ND
IJ 33	17	OP31122 -BS		OP31122			✓
IJ 34	18	↓ -MB		↓			ND
IJ 35	19	F69807 (-1)					✓ RR 100X (DNR) ←
IJ 61536	20	OP31122 (-MS)	↓	↓	↓		✓ RR 100X (DNR) ←

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid1_ij_log.xls NF rev. 08/09

Analyst's Signature: _____

ACCUTEST LABORATORIES SE

DATE:	12-03-09
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2104

ANALYST:	EDOC
MECL2 LOT #:	131502
SIGNAL 1 SURR. AREA/CONC:	1179/99.90
SIGNAL 2 SURR. AREA/CONC:	—

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61537	21	OP31122-(MSD)	FL-PRO	OP31122	1X		✓ RR100X (DNR)
IJ ↓ 38	22	F69807 (2)	↓	↓	↓		✓ RR100X (DNR)
IJ 39	23	F69805 (1) 10			10X		✓ RR100X (DNR)
IJ 40	24	F69805 (2)			1X		✓ RR for C.O. (DNR)
IJ 41	25	E3170 Spk 1X		E3170	1X		PASS
IJ ↓ 42	26	↓ 2X		↓	2X		PASS
IJ 61543	27	ECC2061-1360	↓	S3360	2.5		PASS
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							

FEA 12-04-2009

Manual Integration Rationale SOP QA029: MP Missed Peak OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid1_ij_log.xls NF rev. 08/09

Analyst's Signature: EDOC

Initial Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICC2061
Lab FileID: IJ59948.D

Response Factor Report FID 1

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Initial Calibration

Calibration Files
255 =IJ59945.D 340 =IJ59946.D 680 =IJ59947.D 1360=IJ59948.D
2040=IJ59949.D 2720=IJ59950.D 3400=IJ59951.D

Compound	255	340	680	1360	2040	2720	3400	Avg	%RSD
1)S O-TERPHENYL	3.043	2.902	2.894	2.835	2.980	2.710	3.087	2.921 E4	4.40
2)H TPH (C8-C40)	2.949	2.866	2.768	2.671	2.804	2.546	2.887	2.784 E4	4.96

(#) = Out of Range

FL_PRO_R.M Thu Oct 01 15:34:00 2009

11.6.1 11

Initial Calibration Verification

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICV2061
Lab FileID: IJ59952.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0930PRO\IJ59952.D Vial: 9
Acq On : 30 Sep 2009 2:37 pm Operator: shannonl
Sample : icv2061-1360 Inst : FID 1
Misc : op30397,gij2061,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL		----------NA----------				
2 H	TPH (C8-C40)	1360.000	1268.691	6.7	97	0.00	1.98-10.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Oct 01 15:34:09 2009

11.6.2 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2101-CC2061
Lab FileID: IJ61385.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1130PRO\IJ61385.D Vial: 11
Acq On : 30 Nov 2009 2:28 pm Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31030,gij2101,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	39.038	2.4	101	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1367.749	-0.6	105	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 10:56:56 2009

11.6.3

11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2101-CC2061
Lab FileID: IJ61396.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1130PRO\IJ61396.D Vial: 22
Acq On : 30 Nov 2009 6:43 pm Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31049,gij2101,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	40.274	-0.7	104	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1412.423	-3.9	108	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 10:56:57 2009

11.6.4 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2101-CC2061
Lab FileID: IJ61406.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1130PRO\IJ61406.D Vial: 32
Acq On : 30 Nov 2009 10:25 pm Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31049,gij2101,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.575	3.6	99	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1350.830	0.7	104	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 10:56:57 2009

11.6.5 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2101-CC2061
Lab FileID: IJ61417.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1130PRO\IJ61417.D Vial: 43
Acq On : 1 Dec 2009 2:29 am Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31056,gij2101,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	40.000	39.202	2.0	101	0.00	5.21- 5.25
2	H	TPH (C8-C40)	1360.000	1390.862	-2.3	107	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 10:56:57 2009

11.6.6 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2101-CC2061
Lab FileID: IJ61428.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1130PRO\IJ61428.D Vial: 54
Acq On : 1 Dec 2009 6:33 am Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31056,gij2101,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	39.751	0.6	102	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1407.224	-3.5	108	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 10:56:57 2009

11.6.7 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2101-ECC2061
Lab FileID: IJ61433.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1130PRO\IJ61433.D Vial: 54
Acq On : 1 Dec 2009 8:24 am Operator: marke
Sample : ecc2061-1360 Inst : FID 1
Misc : op31056,gij2101,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	40.000	37.683	5.8	97	0.00	5.21- 5.25
2	H	TPH (C8-C40)	1360.000	1322.615	2.7	101	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 10:56:57 2009

11.6.8

11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2102-CC2061
Lab FileID: IJ61434.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1201PRO\IJ61434.D Vial: 1
Acq On : 1 Dec 2009 8:52 am Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31049,gij2102,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	37.940	5.2	98	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1330.615	2.2	102	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 14:11:22 2009

11.6.9 11

Raw Data: IJ61387.D

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31049-MB	IJ61387.D	1	11/30/09	ME	11/26/09	OP31049	GIJ2101

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69760-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	38-122%

Raw Data: IJ61437.D

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31049-MB	IJ61437.D	1	12/01/09	ME	11/26/09	OP31049	GIJ2102

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69760-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	98%	38-122%

11.1.2 11

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31056-MB	IJ61413.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2101

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69760-4, F69760-5, F69760-6, F69760-7, F69760-8, F69760-9, F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	91%	38-122%

Raw Data: IJ61450.D

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31056-MB	IJ61450.D	1	12/01/09	ME	11/27/09	OP31056	GIJ2102

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69760-4, F69760-5, F69760-6, F69760-7, F69760-8, F69760-9, F69760-10

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	93%	38-122%

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2102-CC2061
Lab FileID: IJ61435.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1201PRO\IJ61435.D Vial: 2
Acq On : 1 Dec 2009 9:14 am Operator: marke
Sample : cc2061-340 Inst : FID 1
Misc : op31049,gij2102,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	9.015	9.8	91	0.00	5.21- 5.25
2 H	TPH (C8-C40)	340.000	333.675	1.9	95	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Tue Dec 01 14:11:37 2009

11.6.10 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2102-CC2061
Lab FileID: IJ61447.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1201PRO\IJ61447.D Vial: 14
Acq On : 1 Dec 2009 1:42 pm Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31049,gij2102,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	37.037	7.4	95	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1301.978	4.3	100	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Tue Dec 01 14:11:22 2009

11.6.11

11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2102-CC2061
Lab FileID: IJ61458.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1201PRO\IJ61458.D Vial: 25
Acq On : 1 Dec 2009 5:47 pm Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31056,gij2102,1040,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.144	4.6	98	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1346.032	1.0	103	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Wed Dec 02 13:07:07 2009

11.6.12
11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2102-CC2061
Lab FileID: IJ61467.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1201PRO\IJ61467.D Vial: 34
Acq On : 1 Dec 2009 9:08 pm Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31072,gij2102,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	41.854	-4.6	108	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1466.016	-7.8	112	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Wed Dec 02 13:07:07 2009

11.6.13

11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2102-CC2061
Lab FileID: IJ61476.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1201PRO\IJ61476.D Vial: 43
Acq On : 2 Dec 2009 12:28 am Operator: marke
Sample : cc2061-1360 Inst : FID 1
Misc : op31072,gij2102,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	37.083	7.3	96	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1347.858	0.9	103	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Wed Dec 02 13:07:07 2009

11.6.14 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2103-CC2061
Lab FileID: IJ61487.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1202PRO\IJ61487.D Vial: 2
Acq On : 2 Dec 2009 10:35 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31072,gij2103,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	36.091	9.8	93	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1259.007	7.4	97	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Dec 03 10:00:27 2009

11.6.15 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2103-CC2061
Lab FileID: IJ61488.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1202PRO\IJ61488.D Vial: 3
Acq On : 2 Dec 2009 10:57 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op31072,gij2103,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	9.962	0.4	100	0.00	5.21- 5.25
2 H	TPH (C8-C40)	340.000	357.857	-5.3	102	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Thu Dec 03 10:01:18 2009

11.6.16
11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2103-CC2061
Lab FileID: IJ61497.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1202PRO\IJ61497.D Vial: 12
Acq On : 2 Dec 2009 3:26 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31072,gij2103,29.8,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.760	3.1	100	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1380.336	-1.5	106	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Dec 03 10:00:28 2009

11.6.17 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2104-CC2061
Lab FileID: IJ61518.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1203PRO\IJ61518.D Vial: 2
Acq On : 3 Dec 2009 9:43 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31122,gij2104,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.674	3.3	100	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1346.710	1.0	103	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Fri Dec 04 11:48:07 2009

11.6.18

11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2104-CC2061
Lab FileID: IJ61519.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1203PRO\IJ61519.D Vial: 3
Acq On : 3 Dec 2009 10:05 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op31122,gij2104,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	10.000	10.564	-5.6	106	0.00	5.21- 5.25
2	H	TPH (C8-C40)	340.000	376.295	-10.7	108	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Fri Dec 04 11:48:33 2009

11.6.19 11

Continuing Calibration Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2104-CC2061
Lab FileID: IJ61530.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1203PRO\IJ61530.D Vial: 14
Acq On : 3 Dec 2009 6:47 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31123,gij2104,1030,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	41.418	-3.5	107	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1446.630	-6.4	111	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Fri Dec 04 09:10:23 2009

11.6.20 11

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31072-MB	IJ61460.D	1	12/01/09	ME	11/30/09	OP31072	GIJ2102

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69760-11, F69760-12, F69760-13, F69760-14, F69760-15

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	8.3	5.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	92%	47-111%

Raw Data: IJ61489.D

Method Blank Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31072-MB	IJ61489.D	1	12/02/09	FEA	11/30/09	OP31072	GIJ2103

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F69760-11, F69760-12, F69760-13, F69760-14, F69760-15

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	8.3	5.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	91%	47-111%

11.1.6

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/08/09 16:29

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\120809\J051956.D Vial: 5
Acq On : 8 Dec 2009 11:04 am Operator: KarenW
Sample : F69760-10,2x Inst : MSVOA6
Misc : ms13339,vj3039,,,,,2 Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 08 12:28:02 2009 Quant Results File: 8260-J.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Initial Calibration
DataAcq Meth : 8260VMS

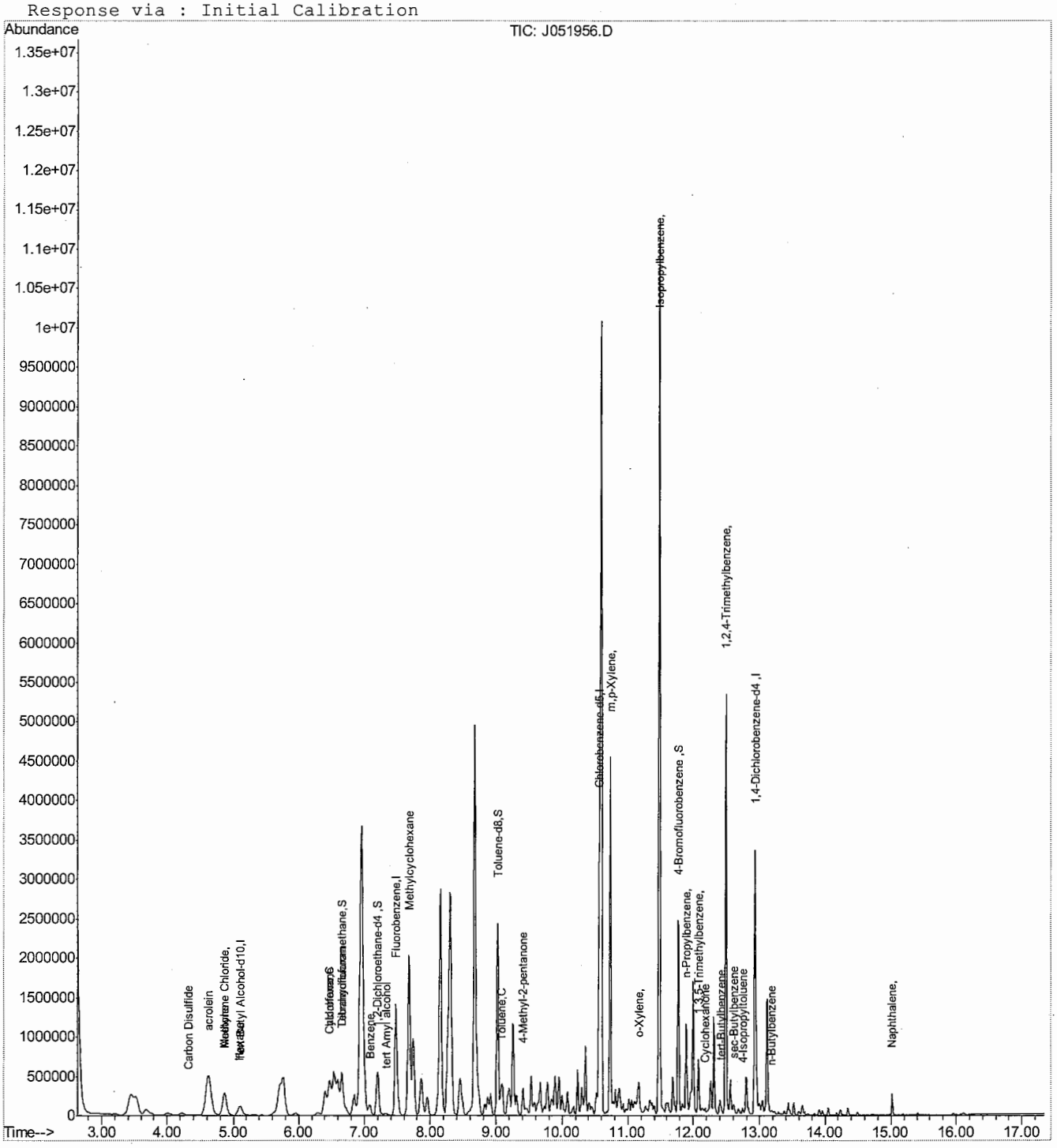
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	7.48	96	1589244	50.00	ug/L		0.00
47) Chlorobenzene-d5	10.56	117	1258939	50.00	ug/L		0.00
68) 1,4-Dichlorobenzene-d4	12.93	152	749458	50.00	ug/L		0.00
93) Tert Butyl Alcohol-d10	5.11	65	165656	250.00	ug/L		0.00
System Monitoring Compounds							
31) Dibromofluoromethane	6.66	113	451633	48.02	ug/L		0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 96.04%				
38) 1,2-Dichloroethane-d4	7.20	65	480542	45.66	ug/L		0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 91.32%				
48) Toluene-d8	9.02	98	1549780	48.40	ug/L		0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 96.80%				
69) 4-Bromofluorobenzene	11.77	95	643486	51.73	ug/L		0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 103.46%				
Target Compounds							Qvalue
12) Carbon Disulfide	4.33	76	13091	0.58	ug/L		86
14) Methylene Chloride	4.86	49	15480	1.04	ug/L	#	68
15) Acetone	4.87	58	24053	27.60	ug/L	#	1
18) Hexane	5.10	56	38452	4.76	ug/L	#	65
28) Cyclohexane	6.47	56	458361	31.62	ug/L		96
29) Chloroform	6.48	83	22945m	1.55	ug/L		
30) Tetrahydrofuran	6.64	42	44872m	19.00	ug/L		
36) Benzene	7.08	78	154395	5.33	ug/L		96
41) Methylcyclohexane	7.68	83	475457	36.63	ug/L	#	67
49) Toluene	9.07	91	138201	4.36	ug/L		98
51) 4-Methyl-2-pentanone	9.41	43	157353	21.56	ug/L	#	44
60) Ethylbenzene	10.59	91	5396807	Below Cal			90
63) m,p-Xylene	10.73	91	1973741	82.34	ug/L		99
64) o-Xylene	11.16	91	104518	3.86	ug/L		95
67) Isopropylbenzene	11.48	105	5353414	179.27	ug/L		87
70) n-Propylbenzene	11.89	91	699427	18.80	ug/L		95
73) 1,3,5-Trimethylbenzene	12.08	105	277190	10.31	ug/L		98
77) Cyclohexanone	12.18	55	4695	15.81	ug/L	#	57
79) tert-Butylbenzene	12.42	91	14157	0.93	ug/L		81
80) 1,2,4-Trimethylbenzene	12.49	105	2115203	76.17	ug/L		98
81) sec-Butylbenzene	12.61	105	39916	1.16	ug/L		85
82) 4-Isopropyltoluene	12.75	119	18147	0.62	ug/L		89
85) n-Butylbenzene	13.18	92	8882	0.50	ug/L	#	72
91) Naphthalene	15.02	128	149106	6.49	ug/L		95
94) acrolein	4.62	56	48965m	64.11	ug/L		
96) tert Amyl alcohol	7.33	59	5826	12.43	ug/L	#	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed
J051956.D 8260-J.M Tue Dec 08 14:57:10 2009

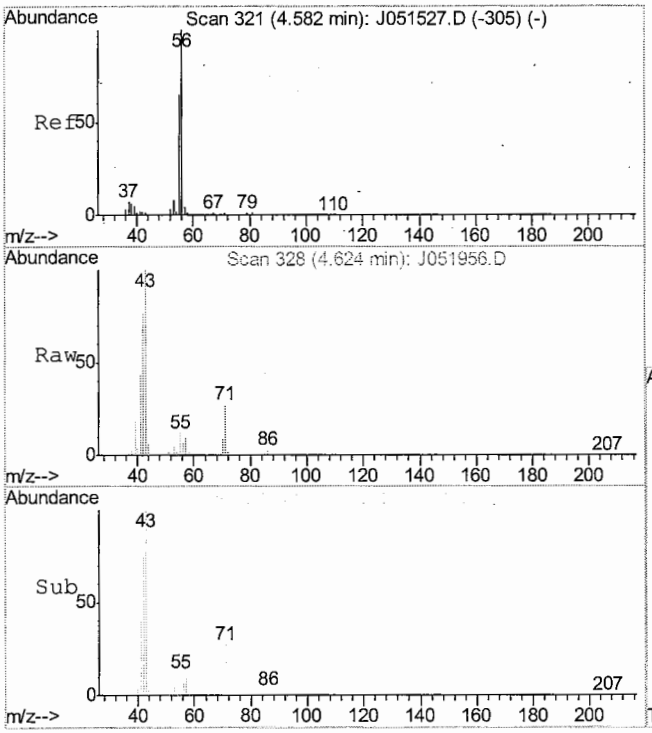
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\120809\J051956.D Vial: 5
Acq On : 8 Dec 2009 11:04 am Operator: KarenW
Sample : F69760-10,2x Inst : MSVOA6
Misc : ms13339,vj3039,,,,,2 Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 8 14:56 2009 Quant Results File: 8260-J.RES

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Initial Calibration



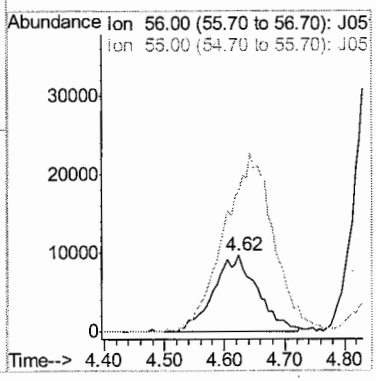
ACCUTEST. Laboratories F69760

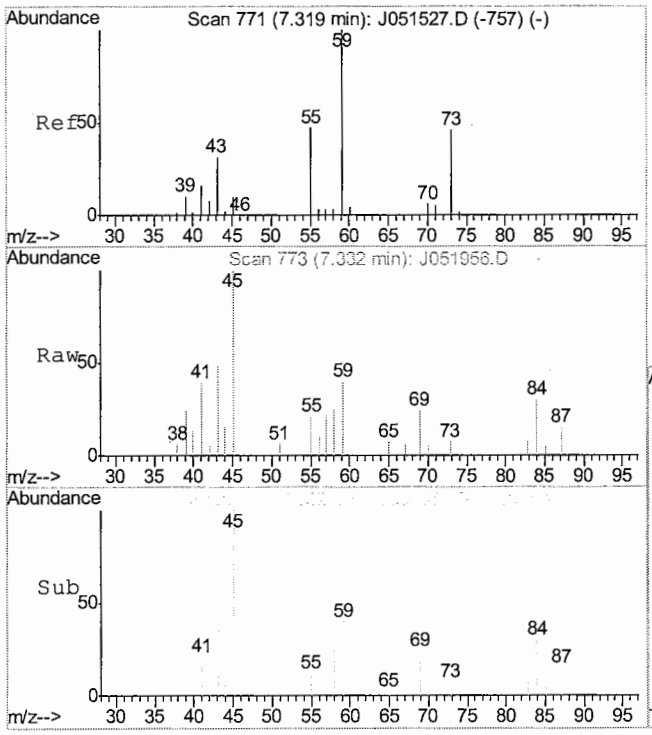


#94
acrolein
Concen: 64.11 ug/L m
RT: 4.62 min Scan# 328
Delta R.T. 0.04 min
Lab File: J051956.D
Acq: 8 Dec 2009 11:04 am

Tgt Ion: 56 Resp: 48965

Ion	Ratio	Lower	Upper
56	100		
55	183.3	45.4	85.4#

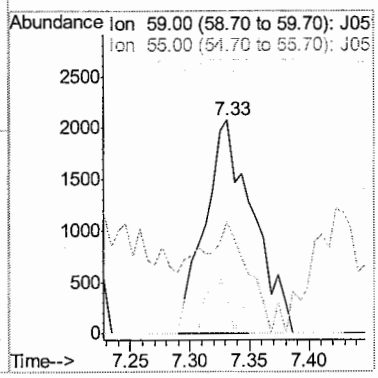




#96
tert Amyl alcohol
Concen: 12.43 ug/L
RT: 7.33 min Scan# 773
Delta R.T. 0.01 min
Lab File: J051956.D
Acq: 8 Dec 2009 11:04 am

Tgt Ion: 59 Resp: 5826

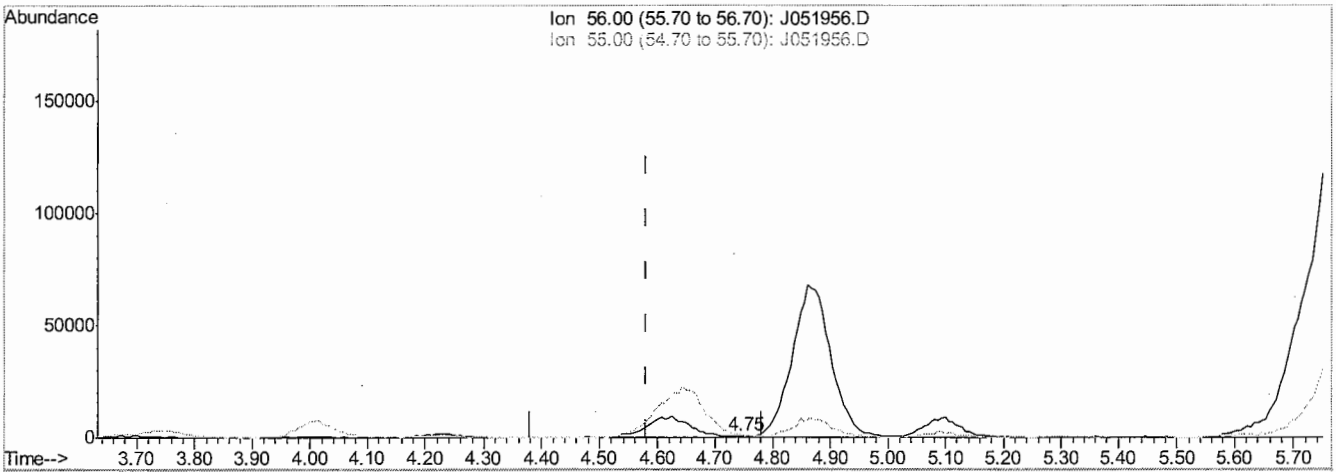
Ion	Ratio	Lower	Upper
59	100		
55	37.0	29.2	69.2
73	18.2	33.7	73.7#

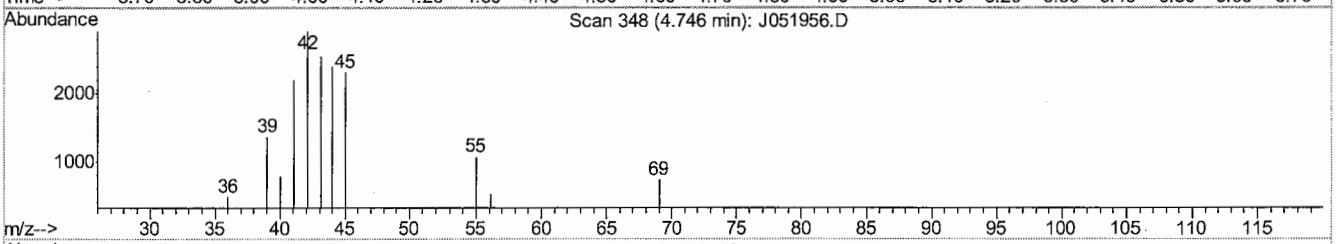


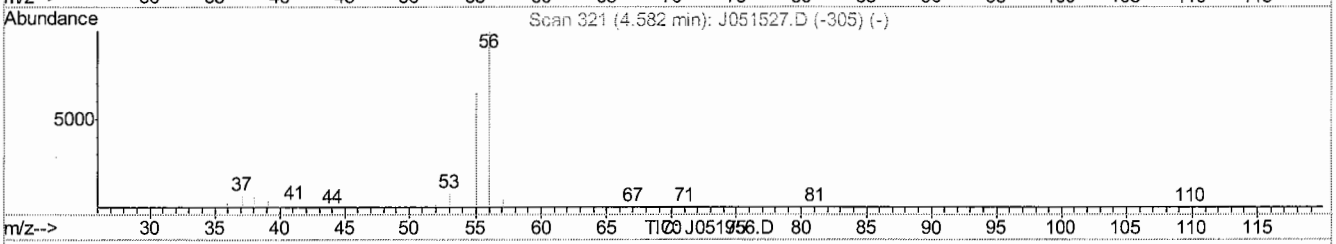
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\120809\J051956.D Vial: 5
Acq On : 8 Dec 2009 11:04 am Operator: KarenW
Sample : F69760-10,2x Inst : MSVOA6
Misc : ms13339,vj3039,,,,,2 Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 8 12:38 2009 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Multiple Level Calibration







(94) acrolein

4.75min (+0.164) 0.43ug/L

response 336

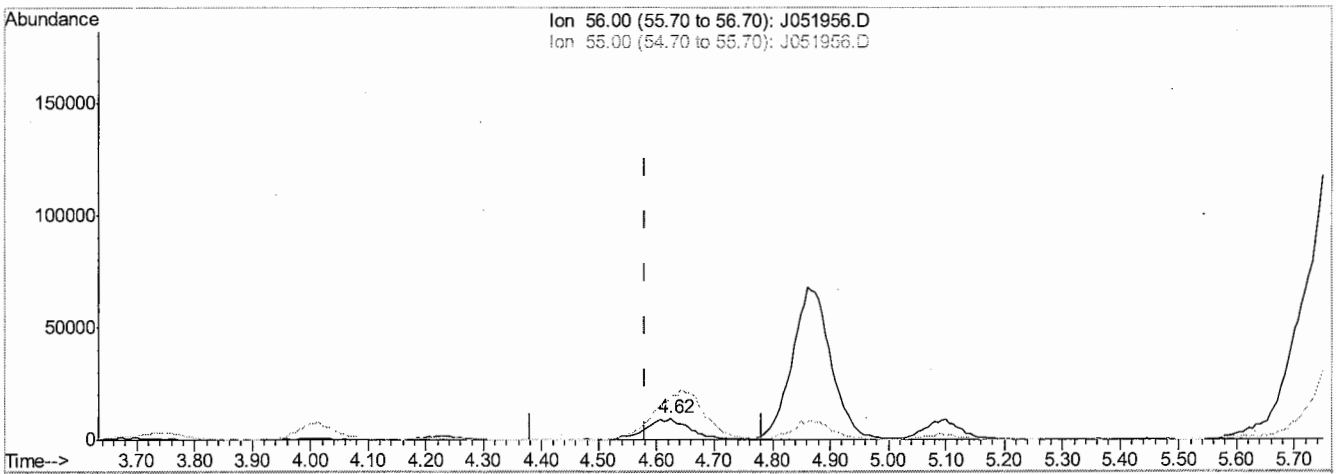
Ion	Exp%	Act%
56.00	100	100
55.00	65.40	55.02
0.00	0.00	0.00
0.00	0.00	0.00

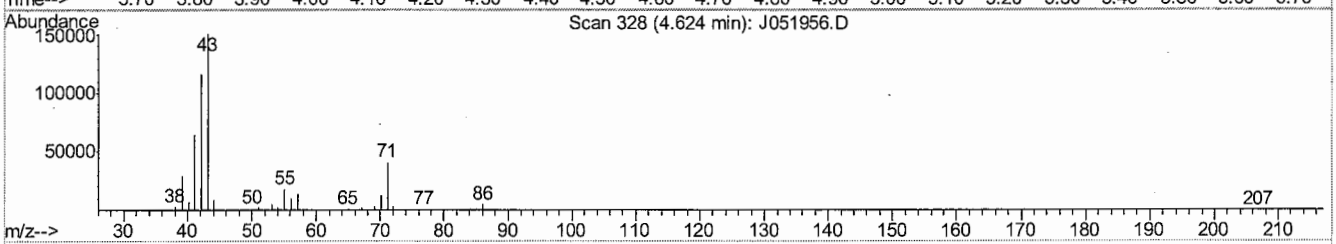
J051956.D 8260-J.M Tue Dec 08 12:38:40 2009

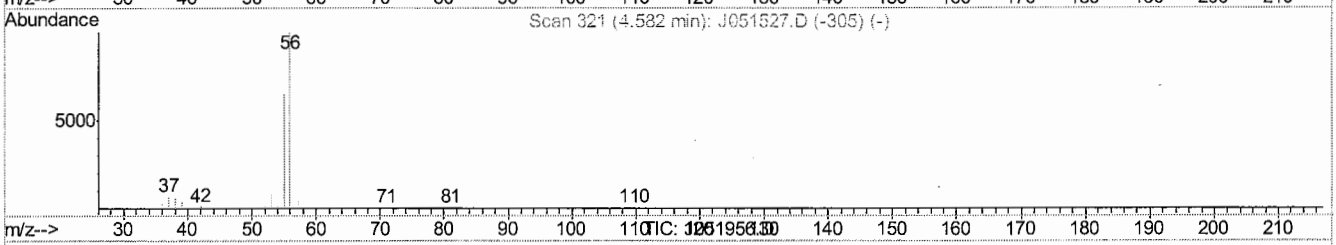
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\120809\J051956.D Vial: 5
Acq On : 8 Dec 2009 11:04 am Operator: KarenW
Sample : F69760-10,2x Inst : MSVOA6
Misc : msl3339,vj3039,,,,,2 Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 8 12:38 2009 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Multiple Level Calibration







(94) acrolein

4.62min (+0.043) 64.11ug/L m

response 48965

Ion	Exp%	Act%
56.00	100	100
55.00	65.40	183.28#
0.00	0.00	0.00
0.00	0.00	0.00

J051956.D 8260-J.M Tue Dec 08 12:38:44 2009

Acrolein results from this analysis.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\120509\J051912.D Vial: 26
Acq On : 5 Dec 2009 7:59 pm Operator: KarenW
Sample : F69760-10,10x Inst : MSVOA6
Misc : msl3339,vj3037,,,,10 Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 07 08:26:02 2009 Quant Results File: 8260-J.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Initial Calibration
DataAcq Meth : 8260VMS

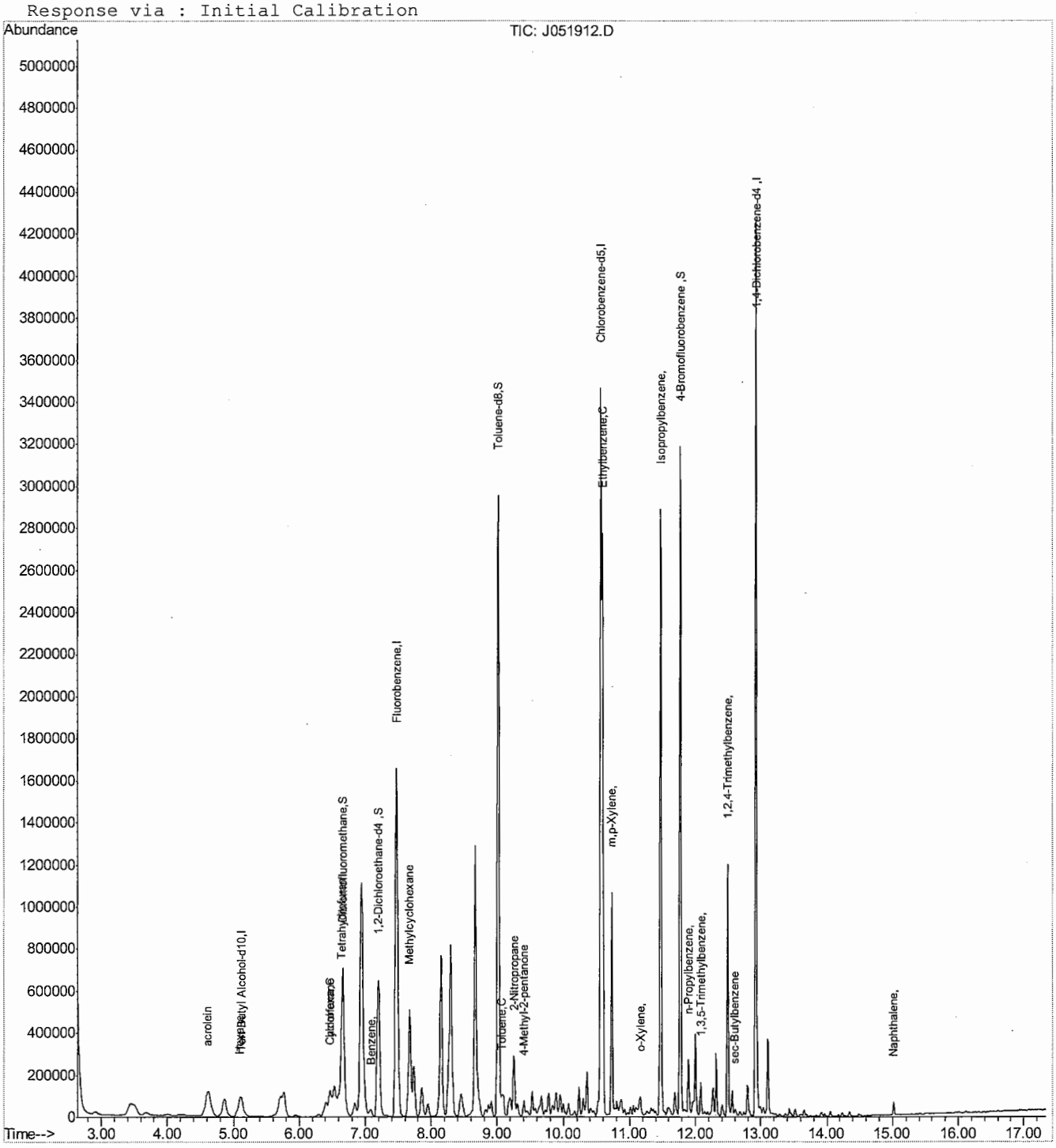
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.48	96	2099610	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.56	117	1596104	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.93	152	1021031	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.12	65	235367	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.66	113	627557	50.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 101.02%			
38) 1,2-Dichloroethane-d4	7.20	65	659764	47.45	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 94.90%			
48) Toluene-d8	9.02	98	1956126	48.19	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 96.38%			
69) 4-Bromofluorobenzene	11.77	95	832208	49.10	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 98.20%			
Target Compounds						Qvalue
18) Hexane	5.09	56	9471	0.89	ug/L #	55
28) Cyclohexane	6.47	56	122086	6.38	ug/L	95
29) Chloroform	6.47	83	6717	0.34	ug/L	76
30) Tetrahydrofuran	6.64	42	31749	10.18	ug/L	85
36) Benzene	7.09	78	41631	1.09	ug/L	93
41) Methylcyclohexane	7.68	83	128434	7.49	ug/L #	77
49) Toluene	9.07	91	34674	0.86	ug/L	99
50) 2-Nitropropane	9.25	41	42474	36.47	ug/L #	1
51) 4-Methyl-2-pentanone	9.40	43	35629	3.85	ug/L #	42
60) Ethylbenzene	10.59	91	1505914	35.69	ug/L	99
63) m,p-Xylene	10.73	91	472723	13.92	ug/L	95
64) o-Xylene	11.16	91	24684	0.72	ug/L	92
67) Isopropylbenzene	11.47	105	1475176	38.96	ug/L	99
70) n-Propylbenzene	11.89	91	160321	3.16	ug/L	97
73) 1,3,5-Trimethylbenzene	12.08	105	62936	1.72	ug/L	99
80) 1,2,4-Trimethylbenzene	12.49	105	514569	13.60	ug/L	99
81) sec-Butylbenzene	12.61	105	10006	0.21	ug/L	80
91) Naphthalene	15.02	128	33556	1.07	ug/L	96
94) acrolein	4.61	56	11170	10.17	ug/L #	16

(#) = qualifier out of range (m) = manual integration (+) = signals summed
J051912.D 8260-J.M Mon Dec 07 08:55:04 2009

Quantitation Report (QT Reviewed)

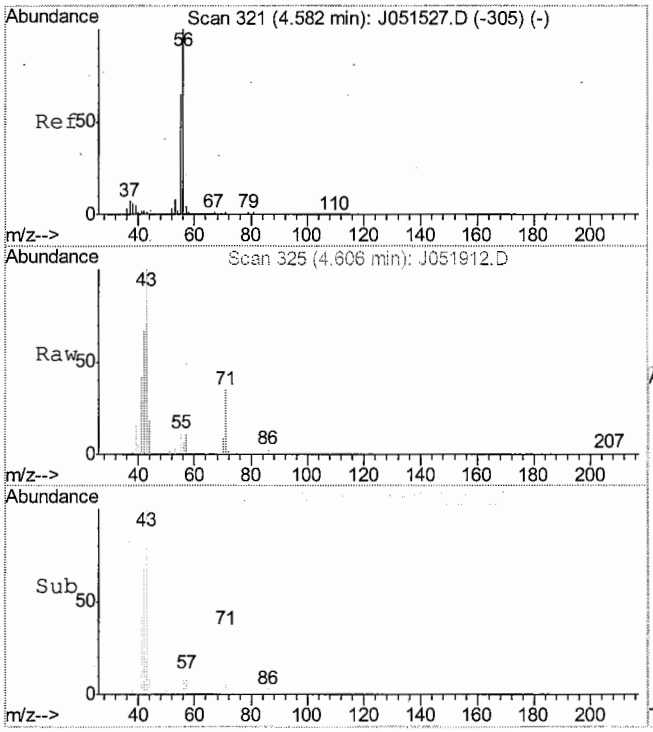
Data File : C:\MSDCHEM\1\DATA\120509\J051912.D Vial: 26
Acq On : 5 Dec 2009 7:59 pm Operator: KarenW
Sample : F69760-10,10x Inst : MSVOA6
Misc : ms13339,vj3037,,,,10 Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 7 8:51 2009 Quant Results File: 8260-J.RES

Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Initial Calibration



J051912.D 8260-J.M Mon Dec 07 08:55:04 2009 Page 2

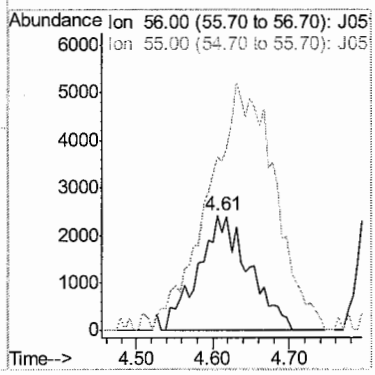
6.1.10
6



#94
acrolein
Concen: 10.17 ug/L
RT: 4.61 min Scan# 325
Delta R.T. 0.02 min
Lab File: J051912.D
Acq: 5 Dec 2009 7:59 pm

Tgt Ion: 56 Resp: 11170

Ion	Ratio	Lower	Upper
56	100		
55	132.1	45.4	85.4#



6.1.10
6

Initial Calibration Verification

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112009\J051531.D Vial: 8
Acq On : 20 Nov 2009 12:17 pm Operator: KarenW
Sample : ICV3020-4 Inst : MSVOA6
Misc : ms13240,vj3020,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Nov 20 12:34:53 2009 Quant Results File: 8260-J.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Fri Nov 20 12:26:28 2009
Response via : Initial Calibration
DataAcq Meth : 8260VMS

6.6.15

6

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) Naphthalene	15.02	128	1433716	41.16	ug/L	99
92) 1,2,3-Trichlorobenzene	15.19	180	699616	41.10	ug/L	99
94) acrolein	4.58	56	249152	175.07	ug/L	89
95) Tert Butyl Alcohol	5.18	59	474788	433.99	ug/L	82
96) tert Amyl alcohol	7.31	59	396754	442.87	ug/L	98
97) 1,4-Dioxane	8.39	88	107984	920.78	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
J051531.D 8260-J.M Sat Nov 21 09:21:38 2009

ACCUTEST Laboratories F69760

Continuing Calibration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\120809\J051952.D Vial: 1
Acq On : 8 Dec 2009 9:27 am Operator: KarenW
Sample : CC3020-4 Inst : MSVOA6
Misc : ms13346,vj3039,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p
Quant Time: Dec 08 09:45:04 2009 Quant Results File: 8260-J.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260-J.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Nov 23 09:13:07 2009
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) Naphthalene	15.02	128	1003577	44.81	ug/L	99
92) 1,2,3-Trichlorobenzene	15.18	180	465951	42.58	ug/L	97
94) acrolein	4.59	56	97526	118.23	ug/L	90
95) Tert Butyl Alcohol	5.20	59	276136	441.21	ug/L	88
96) tert Amyl alcohol	7.32	59	225489	439.97	ug/L	92
97) 1,4-Dioxane	8.39	88	58036	865.05	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
J051952.D 8260-J.M Tue Dec 08 14:46:30 2009

6.6.17 6

ACCUTEST. F69760 Laboratories

Volatile Internal Standard Area Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	VK1868-CC1867	Injection Date:	12/02/09
Lab File ID:	K042903.D	Injection Time:	09:15
Instrument ID:	GCMSK	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	828920	11.57	616589	15.05	314162	17.51	214482	8.37
Upper Limit [a]	1657840	12.07	1233178	15.55	628324	18.01	428964	8.87
Lower Limit [b]	414460	11.07	308295	14.55	157081	17.01	107241	7.87
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VK1868-BS	989333	11.56	614689	15.06	309652	17.52	162689	8.40
VK1868-MB	786533	11.56	556002	15.06	234732	17.52	108587	8.48
ZZZZZZ	731630	11.56	496891	15.06	198304	17.53	53437*	8.53
F69767-1	737563	11.56	517285	15.06	225968	17.52	102208*	8.44
ZZZZZZ	761466	11.57	522144	15.06	223829	17.53	130862	8.48
F69760-1 [c]	754184	11.57	520152	15.07	232924	17.52	100201*	8.47
F69760-11	46717*	11.57	37021*	15.07	16705*	17.52	9385*	8.41
F69760-12	805497	11.56	573402	15.06	228169	17.52	108922	8.41
F69760-13	742397	11.57	506844	15.07	199057	17.53	80653*	8.46
F69760-14	699963	11.57	518545	15.06	231226	17.52	113947	8.39 OK
F69767-1MS	883983	11.56	620241	15.06	296044	17.52	72137*	8.40
F69767-1MSD	928109	11.57	643099	15.06	326834	17.52	108391	8.41
ZZZZZZ	819725	11.57	507792	15.07	169950	17.53	141192	8.56
ZZZZZZ	859495	11.57	620864	15.06	268620	17.53	128785	8.47
ZZZZZZ	793814	11.57	579865	15.06	251448	17.53	127687	8.48
ZZZZZZ	826015	11.57	576777	15.06	259655	17.53	153045	8.48
ZZZZZZ	654089	11.56	444005	15.06	148766*	17.53	107324	8.48
ZZZZZZ	761377	11.57	515343	15.07	192701	17.52	108864	8.54
ZZZZZZ	780813	11.56	552716	15.06	211128	17.52	114112	8.42
ZZZZZZ	715211	11.58	502913	15.08	198817	17.53	112657	8.45

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample received outside the holding time.

Volatile Internal Standard Area Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Check Std:	VK1869-ICC1869	Injection Date:	12/03/09
Lab File ID:	K042935.D	Injection Time:	12:28
Instrument ID:	GCMSK	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	796103	11.55	581816	15.05	305812	17.51	156629	8.38
Upper Limit [a]	1592206	12.05	1163632	15.55	611624	18.01	313258	8.88
Lower Limit [b]	398052	11.05	290908	14.55	152906	17.01	78315	7.88

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VK1869-BS	809454	11.55	582665	15.05	298088	17.51	128503	8.38
VK1869-MB	742879	11.56	502806	15.06	228071	17.52	114120	8.51
F69616-35	727433	11.55	508512	15.05	209857	17.51	63997*	8.45
ZZZZZZ	713896	11.56	491287	15.06	205141	17.51	105895	8.47
ZZZZZZ	609696	11.55	405388	15.05	148449*	17.52	67360*	8.50
F69616-35MS	757388	11.55	557918	15.05	274178	17.51	100133	8.38
F69616-35MSD	787633	11.55	561307	15.05	264040	17.51	83147	8.40
ZZZZZZ	711803	11.55	497792	15.05	206318	17.51	97960	8.44
ZZZZZZ	715845	11.55	483992	15.05	174265	17.51	91352	8.41
F69760-11 [c]	716446	11.56	377606	15.06	145585*	17.52	127513	8.42
F69760-15	843630	11.55	627144	15.05	320176	17.50	152176	8.38
ZZZZZZ	817049	11.55	570109	15.05	249779	17.51	141791	8.48
ZZZZZZ	770542	11.55	570713	15.05	245334	17.51	137830	8.50
ZZZZZZ	518272	11.55	351919	15.05	150523*	17.51	91290	8.48
ZZZZZZ	756666	11.55	540026	15.05	218814	17.51	120152	8.47
ZZZZZZ	762103	11.55	516689	15.05	215294	17.51	105717	8.49
ZZZZZZ	729368	11.55	514418	15.05	214809	17.51	83053	8.53
ZZZZZZ	782058	11.55	588141	15.05	283952	17.50	121707	8.37

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run for internal standard areas.

Raw Data: K042910.D K042948.D

Initial Form 1
Of Sample

Accutest Laboratories

3.11
3

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K042910.D	1	12/02/09	LD	n/a	n/a	VK1868
Run #2 [a]	K042948.D	1	12/03/09	LD	n/a	n/a	VK1869

	Initial Weight
Run #1	5.59 g
Run #2	4.57 g

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	11 U	29	11	ug/kg	
107-13-1	Acrylonitrile	8.1 U	29	8.1	ug/kg	
71-43-2	Benzene	1.2 U	5.9	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	5.9	1.4	ug/kg	
75-25-2	Bromoform	1.8 U	5.9	1.8	ug/kg	
108-90-7	Chlorobenzene	1.2 U	5.9	1.2	ug/kg	
75-00-3	Chloroethane	2.3 U	5.9	2.3	ug/kg	
67-66-3	Chloroform	2.0 U	5.9	2.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	12 U	29	12	ug/kg	
56-23-5	Carbon tetrachloride	1.6 U	5.9	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	2.3 U	5.9	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	5.9	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	1.3 U	5.9	1.3	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	5.9	1.6	ug/kg	
124-48-1	Dibromochloromethane	1.2 U	5.9	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	2.3 U	5.9	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.9 U	5.9	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.5 U	5.9	1.5	ug/kg	
541-73-1	m-Dichlorobenzene	1.2 U	5.9	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	1.2 U	5.9	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	1.2 U	5.9	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	5.9	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.2 U	5.9	1.2	ug/kg	
100-41-4	Ethylbenzene	1.2 U	5.9	1.2	ug/kg	
74-83-9	Methyl bromide	2.6 U	5.9	2.6	ug/kg	
74-87-3	Methyl chloride	2.8 U	5.9	2.8	ug/kg	
75-09-2	Methylene chloride	5.9 U	12	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8 U	5.9	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.3 U	5.9	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	2.1 U	5.9	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.2 U	5.9	1.2	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	5.9	1.4	ug/kg	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Initial Form I of Sample

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
Method:	SW846 8260B	Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.2 U	5.9	1.2	ug/kg	
79-01-6	Trichloroethylene	1.4 U	5.9	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	2.3 U	5.9	2.3	ug/kg	
75-01-4	Vinyl chloride	2.3 U	5.9	2.3	ug/kg	
1330-20-7	Xylene (total)	3.4 U	18	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	110%	80-121%
2037-26-5	Toluene-D8	92%	125%	71-130%
460-00-4	4-Bromofluorobenzene	96%	90%	59-148%
17060-07-0	1,2-Dichloroethane-D4	97%	108%	77-123%

(a) Confirmation run for internal standard areas.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 8, 2010**

FROM: **LEANNE M. GANSER** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – LEAD AND PERCENT SOLIDS**
CTO 0105 NAS KEY WEST
SAMPLE DELIVERY GROUP (SDG) – F69760

SAMPLES: 5/Soil

KWTFS-SB108-SO-0002 KWTFS-SB114-SO-0002 KWTFS-SB129-SO-0002
KWTFS-SB132-SO-0002 KWTFS-SB147-SO-0002

Overview

The sample set for NAS Key West, CTO 155, SDG F69760, consists of five (5) soil environmental samples. No field duplicate pairs were included within this data package.

All samples were analyzed for lead and percent solids. The samples were collected by Tetra Tech NUS on November 24, 2009 and analyzed by Accutest Laboratories. Metals analyses were conducted using SW-846 method 6010B. Percent solid analyses were conducted using method SM19 2540B M.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial and Continuing Calibrations
• Laboratory Method and Field Quality Control Blank Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

Metals

The following contaminant was detected in the laboratory method blanks at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Lead[1]	3.1 ug/L	0.775 mg/kg

1. Affecting samples KWTFS-SB108-SO-0002, KWTFS-SB114-SO-0002, KWTFS-SB129-SO-0002, and KWTFS-SB132-SO-0002.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into

consideration when evaluating for blank contamination. Positive results for lead less than the blank action level were qualified as nondetects, "U", due to blank contamination.

Notes

Samples KWTFS-SB108-SO-0002, KWTFS-SB114-SO-0002, KWTFS-SB129-SO-0002, and KWTFS-SB132-SO-0002 were analyzed at a 20X dilution for lead.

Sample KWTFS-SB147-SO-0002 was analyzed at a 10X dilution for lead.

Executive Summary

Laboratory Performance: Lead was present in the laboratory blanks.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004.

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech NUS
Leanne M. Ganser
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01294	NSAMPLE	KWTFS-SB108-SO-0002			KWTFS-SB114-SO-0002			KWTFS-SB129-SO-0002			KWTFS-SB132-SO-0002		
SDG: F69760	LAB_ID	F69760-11			F69760-12			F69760-13			F69760-14		
FRACTION: MISC	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCENT SOLIDS		76.4			86.2			73.4			80.1		

PROJ_NO: 01294	NSAMPLE	KWTFS-SB108-SO-0002			KWTFS-SB114-SO-0002			KWTFS-SB129-SO-0002			KWTFS-SB132-SO-0002		
SDG: F69760	LAB_ID	F69760-11			F69760-12			F69760-13			F69760-14		
FRACTION: M	SAMP_DATE	11/24/2009			11/24/2009			11/24/2009			11/24/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	76.4			86.2			73.4			80.1		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
LEAD		48.5			10	U	A	5.2	U		12.1	U	A

PROJ_NO: 01294	NSAMPLE	KWTFS-SB147-SO-0002		
SDG: F69760	LAB_ID	F69760-15		
FRACTION: M	SAMP_DATE	11/24/2009		
MEDIA: SOIL	QC_TYPE	NM		
	UNITS	MG/KG		
	PCT_SOLIDS	73.6		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
LEAD		3.6		

PROJ_NO: 01294	NSAMPLE	KWTFS-SB147-SO-0002		
SDG: F69760	LAB_ID	F69760-15		
FRACTION: MISC	SAMP_DATE	11/24/2009		
MEDIA: SOIL	QC_TYPE	NM		
	UNITS	%		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
PERCENT SOLIDS		73.6		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB108-SO-0002		
Lab Sample ID:	F69760-11	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
		Percent Solids:	76.4
Project:	NAS Key West, Key West, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	48.5 I	100	4.6	mg/kg	20	11/30/09	12/02/09	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA7700
(2) Prep QC Batch: MP17412

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB114-SO-0002		
Lab Sample ID:	F69760-12	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
		Percent Solids:	86.2
Project:	NAS Key West, Key West, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	10 I	110	5.0	mg/kg	20	11/30/09	12/02/09	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA7700
(2) Prep QC Batch: MP17412

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB129-SO-0002		
Lab Sample ID:	F69760-13	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
		Percent Solids:	73.4
Project:	NAS Key West, Key West, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	5.2 U	110	5.2	mg/kg	20	11/30/09	12/02/09	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA7700
(2) Prep QC Batch: MP17412

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

3.14

Client Sample ID:	KWTFS-SB132-SO-0002		
Lab Sample ID:	F69760-14	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
		Percent Solids:	80.1
Project:	NAS Key West, Key West, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	12.1 I	110	4.8	mg/kg	20	11/30/09	12/02/09	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA7700
(2) Prep QC Batch: MP17412

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

3.15

Client Sample ID:	KWTFS-SB147-SO-0002		
Lab Sample ID:	F69760-15	Date Sampled:	11/24/09
Matrix:	SO - Soil	Date Received:	11/25/09
		Percent Solids:	73.6
Project:	NAS Key West, Key West, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	3.6 I	67	3.0	mg/kg	10	11/30/09	12/01/09	RS	SW846 6010B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA7698
(2) Prep QC Batch: MP17412

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result >= MDL but < RL

APPENDIX C
SUPPORT DOCUMENTATION

HOLDTIME

SDG F69760

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
M	MG/KG	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/30/2009	12/01/2009	6	1	7
M	MG/KG	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
M	MG/KG	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
M	MG/KG	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/30/2009	12/02/2009	6	2	8
PCS	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
PCS	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	11/27/2009	11/27/2009	3	0	3
EDB	%	KWTFS-SB108-SO-0002	F69760-11	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB114-SO-0002	F69760-12	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB147-SO-0002	F69760-15	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB129-SO-0002	F69760-13	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7
EDB	%	KWTFS-SB132-SO-0002	F69760-14	NM	11/24/2009	12/01/2009	12/01/2009	7	0	7

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F69760

Site: NAS Key West, Key West, FL **Report Date:** 12/15/2009 10:16:07

13 Samples and 2 Trip Blanks were collected on/between 11/09/2009 and 11/24/2009 and were received at Accutest SE on 11/25/2009 properly preserved, at 4 Deg. C and intact. These Samples received an Accutest job number of F69760. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VF1079

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69757-4MS, F69757-4MSD were used as the QC samples indicated.

Matrix Spike and Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

F69760-2: Sample was not preserved to a pH < 2; reported results are considered minimum values. Sample was treated with anti-foaming agent.

Matrix: AQ **Batch ID:** VJ3037

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69726-12MS, F69726-12MSD were used as the QC samples indicated.

Matrix Spike Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether, Dichlorodifluoromethane are outside control limits. Probable cause: due to matrix interference.

RPD for MSD for 2-Chloroethyl vinyl ether is outside control limits for sample F69726-12MSD. Probable cause due to sample non-homogeneity.

F69760-3, F69760-5, F69760-8, F69760-9, F69760-10: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F69760-10 for Acrolein: CCV outside of control limits; results may be biased high.

Matrix: AQ **Batch ID:** VJ3039

All samples were analyzed within the recommended method holding time.

Samples F69793-1MS, F69793-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for 2-Chloroethyl vinyl ether are outside control limits. Probable cause: due to matrix interference.

F69760-10: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F69760-10 for Methylene chloride: Suspected laboratory contaminant.

Matrix: SO **Batch ID:** VK1868

Samples F69767-1MS, F69767-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method SW846 8260B: F69760-1. Sample received outside the holding time.

Matrix Spike Recoverys for Acrolein, Acrylonitrile, Methylene chloride are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recoverys for Acrylonitrile, Methylene chloride are outside control limits. Probable cause: due to matrix interference.

F69760-1: Sample received outside the holding time.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VK1869

All samples were analyzed within the recommended method holding time.

Samples F69616-35MS, F69616-35MSD were used as the QC samples indicated.

Matrix Spike Recovery for Methylene chloride is outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recovery for Acrylonitrile is outside control limits. Probable cause: due to matrix interference.

RPD for MSD for Methylene chloride is outside control limits for sample F69616-35MSD. Probable cause due to sample non-homogeneity.

F69760-11: Confirmation run for internal standard areas.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP31054

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69772-1MS, F69772-1MSD were used as the QC samples indicated.

RPDs for MSD for 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene are outside control limits for sample OP31054-MSD. Probable cause due to sample non-homogeneity.

Samples F69760-10, F69760-12, OP31073-MS, OP31073-MSD, F69760-11, F69760-10 have surrogates outside control limits. Probable cause: due to matrix interference.

OP31054-MB for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP31068

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69760-5MS, F69760-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene are outside control limits. Probable cause: due to matrix interference.

Samples F69760-10, F69760-12, OP31073-MS, OP31073-MSD, F69760-11, F69760-10 have surrogates outside control limits. Probable cause: due to matrix interference.

F69760-6: Dilution required due to matrix interference.

F69760-10 for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

Matrix: AQ **Batch ID:** OP31118

The following samples were re-extracted outside of holding time for method SW846 8270C BY SIM: F69760-10

F69760-10: Confirmation run.

Matrix: SO **Batch ID:** OP31073

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69760-11MS, F69760-11MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike and Matrix Spike Duplicate Recoverys for Naphthalene are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Recoverys for 1-Methylnaphthalene, 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Samples F69760-10, F69760-12, OP31073-MS, OP31073-MSD, F69760-11, F69760-10 have surrogates outside control limits. Probable cause: due to matrix interference.

F69760-11: Dilution required due to matrix interference.

F69760-11, OP31073-MS, OP31073-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

F69760-12 for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

Volatiles by GC by Method SW846 8011M

Matrix: SO **Batch ID:** OP31088

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69760-14MS, F69760-14MSD were used as the QC samples indicated.

Extractables by GC by Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP31049

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69691-4MS, F69691-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

Matrix: AQ **Batch ID:** OP31056

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69757-7MS, F69757-7MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

F69760-10 for o-Terphenyl: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis. Beyond hold time.

F69760-6 for o-Terphenyl: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP31123

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

Matrix: SO **Batch ID:** OP31072

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F69735-1MS, F69735-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recovery for TPH (C8-C40) is outside control limits. Probable cause: due to matrix interference.

Samples F69760-10, F69760-11, F69760-6, F69760-10 have surrogates outside control limits. Confirmation run for surrogate recoveries.

F69760-11 for o-Terphenyl: Outside control limits due to dilution.

Metals by Method SW846 6010B

Matrix: SO **Batch ID:** MP17412

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F69717-1DUP, F69717-1MS, F69717-1MSD, F69717-1SDL were used as the QC samples for metals.

RPD for Serial Dilution for Lead is outside control limits for sample MP17412-SD1. Probable cause due to sample non-homogeneity.

MP17412-SD1 for Lead: Serial dilution indicates possible matrix interference.

F69760-11, F69760-12, F69760-13, F69760-14, F69760-15 for Lead: Elevated reporting limit(s) due to matrix interference.

Wet Chemistry by Method SM19 2540B M

Matrix: SO **Batch ID:** GN37585

Sample F69717-1DUP was used as the QC sample for Solids, Percent.

Tuesday, December 15, 2009

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: December 15, 2009

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, December 15, 2009

F69760

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000109-3

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01294	**KEY WEST NAS**	**Chuck Bryan**	**Federal Express**	**Accutest Labs, SE** **4405 Vineland Road** **Orlando, FL 32811**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
0105	7day	**Gary Braganza**	**870516209265**	**Heather Wandrey** **407-425-6700 x120**

	Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
1	11/09/2009	KW-TFS-TB-04-1104	13:03	SW-846 5030B/8260	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/MeOH	3	Glass - Clear	40ml vials	soil trip blank
2	11/20/2009	KWTFS-SB122-GW-0307	11:42	SW-846 5030B/8260	KWTFS-SB122	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/20/2009	KWTFS-SB122-GW-0307	11:42	SW-846 8270C SIM	KWTFS-SB122	GW	PAHs	4°C	2	Glass - Amber	1L	
3	11/24/2009	KW-TFS-TB-03-1109	00:00	SW-846 5030B/8260	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/HCL	2	Glass - Clear	40ml vials	Trip Blank
	11/24/2009	KWTFS-SB101-GW-0307	10:00	SW-846 5030B/8260	KWTFS-SB101	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
4	11/24/2009	KWTFS-SB101-GW-0307	10:00	SW-846 8270C SIM	KWTFS-SB101	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB101-GW-0307	10:00	FL-PRO	KWTFS-SB101	GW	TRPH	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB108-GW-0307	09:30	SW-846 5030B/8260	KWTFS-SB108	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/24/2009	KWTFS-SB108-GW-0307	09:30	SW-846 8270C SIM	KWTFS-SB108	GW	PAHs	4°C	2	Glass - Amber	1L	
5	11/24/2009	KWTFS-SB108-GW-0307	09:30	FL-PRO	KWTFS-SB108	GW	TRPH	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB108-SO-0002	09:30	SW-846 8260B	KWTFS-SB108	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
6	11/24/2009	KWTFS-SB108-SO-0002	09:30	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB108	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB114-GW-0307	11:15	SW-846 5030B/8260	KWTFS-SB114	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/24/2009	KWTFS-SB114-GW-0307	11:15	SW-846 8270C SIM	KWTFS-SB114	GW	PAHs	4°C	2	Glass - Amber	1L	
7	11/24/2009	KWTFS-SB114-GW-0307	11:15	FL-PRO	KWTFS-SB114	GW	TRPH	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB114-SO-0002	11:15	SW-846 8260B	KWTFS-SB114	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
8	11/24/2009	KWTFS-SB114-SO-0002	11:15	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB114	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB129-GW-0307	13:30	SW-846 5030B/8260	KWTFS-SB129	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/24/2009	KWTFS-SB129-GW-0307	13:30	SW-846 8270C SIM	KWTFS-SB129	GW	PAHs	4°C	2	Glass - Amber	1L	
9	11/24/2009	KWTFS-SB129-GW-0307	13:30	FL-PRO	KWTFS-SB129	GW	TRPH	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB129-SO-0002	13:30	SW-846 8260B	KWTFS-SB129	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
10	11/24/2009	KWTFS-SB129-SO-0002	13:30	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB129	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB132-GW-0307	14:00	SW-846 5030B/8260	KWTFS-SB132	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
	11/24/2009	KWTFS-SB132-GW-0307	14:00	SW-846 8270C SIM	KWTFS-SB132	GW	PAHs	4°C	2	Glass - Amber	1L	
11	11/24/2009	KWTFS-SB132-GW-0307	14:00	FL-PRO	KWTFS-SB132	GW	TRPH	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB132-SO-0002	14:00	SW-846 8260B	KWTFS-SB132	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
12	11/24/2009	KWTFS-SB132-SO-0002	14:00	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB132	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	
	11/24/2009	KWTFS-SB134-GW-0307	15:30	SW-846 5030B/8260	KWTFS-SB134	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
13	11/24/2009	KWTFS-SB134-GW-0307	15:30	SW-846 8270C SIM	KWTFS-SB134	GW	PAHs	4°C	2	Glass - Amber	1L	
	11/24/2009	KWTFS-SB134-GW-0307	15:30	FL-PRO	KWTFS-SB134	GW	TRPH	4°C	2	Glass - Amber	1L	

4.1 4

F69760: Chain of Custody
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11/24/2009	KWTFS-SB147-GW-0307	12:15	SW-846 5030B/8260	KWTFS-SB147	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
11/24/2009	KWTFS-SB147-GW-0307	12:15	SW-846 8270C SIM	KWTFS-SB147	GW	PAHs	4°C	2	Glass - Amber	1L	
11/24/2009	KWTFS-SB147-GW-0307	12:15	FL-PRO	KWTFS-SB147	GW	TRPH	4°C	2	Glass - Amber	1L	
11/24/2009	KWTFS-SB147-SO-0002	12:15	SW-846 8260B	KWTFS-SB147	SO	VOCs	4°C/MeOH	3	Glass - Clear	40 mL vial (pre-tared)	
11/24/2009	KWTFS-SB147-SO-0002	12:15	SW-846 8270C/FL-PRO/EPA 504.1/EPA 239.2	KWTFS-SB147	SO	PAHs/TRPH/EDB/Lead	4°C	1	Glass - Amber	8 oz. wide-mouth w/Teflon cap	

1. Relinquished By: GAB **Gary Braganza**	Date: 11/24/2009	Time: 15:45	Received By: **Federal Express**	Date: 11/24/2009	Time: 16:45
2. Relinquished By: FX	Date:	Time:	Received By: J Gaunt	Date: 11-25-09	Time: 10:00
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments: 1.8 2.4 2.8 3.6 4.0

F69760

4.1

4

F69760: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F69760 CLIENT: TETRA-TECH PROJECT: 112 G01294

DATE/TIME RECEIVED: 11-23-09 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 5

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ?

NUMBER OF 5035 FIELD KITS ? 5+TB

NUMBER OR LAB FILTERED METALS ?

TEMPERATURE INFORMATION

- [ ] IR THERM ID 2 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 1.4 3.0 2.4 3.2 3.6
- [ ] CORRECTED TEMPS: 1.8 2.4 2.8 3.6 4.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: FOR SAMPLE #2 RECEIVED 2 AMBER FL. PRO NOT REQUESTED ON COC
RECEIVED ONLY 1 AMBER (FL. PRO) FOR SAMPLE #7
RECEIVED ONLY 1 AMBER (BLTO) FOR SAMPLE #9

TECHNICIAN SIGNATURE/DATE LC 11-25-09 REVIEWER SIGNATURE/DATE ET-11-25-09

NF 10/09 RECEIPT CONFIRMATION 100609 (2).xls

F69760: Chain of Custody
Page 3 of 3

SOIL BLANK WORKSHEET

MAXIMUM BLANK CONTAMINATION = ICB / CCB

Analyte	Sample	Maximum (ug/L)	Initial (g)	Final (L)	Dilution Factor	% Solids	AL (mg/Kg)	Sample Result	Previous Qual	Blank Qual
Pb	108	3.1	1.29	0.05	20	76.4	15.73	48.5		
	114	3.1	1.04	0.05	20	86.2	17.29	10		B
	129	3.1	1.19	0.05	20	73.4	17.75	5.2	U	
	132	3.1	1.16	0.05	20	80.1	16.68	12.1		B

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7694
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:42	MA7694-HSTD1	1		
09:45	MA7694-ICV1	1		
09:53	MA7694-ICB1	1		
09:58	MA7694-CRIA1	1		
10:03	MA7694-CRIA2	1		
10:06	MA7694-CRI1	1		
10:35	MA7694-ICSA1	1		
10:37	MA7694-ICSAB1	1		
10:42	MA7694-CCV1	1		
10:47	MA7694-CCB1	1		
10:50	ZZZZZZ	2		
10:54	ZZZZZZ	4		
10:57	ZZZZZZ	4		
11:01	ZZZZZZ	2		
11:04	ZZZZZZ	5		
11:07	ZZZZZZ	4		
11:11	ZZZZZZ	4		
11:14	ZZZZZZ	2		
11:18	ZZZZZZ	20		
11:21	MP17407-S1	2		
11:24	MA7694-CCV2	1		
11:29	MA7694-CCB2	1		
11:32	MP17407-S2	2		
11:36	ZZZZZZ	10		
11:39	ZZZZZZ	10		
11:42	ZZZZZZ	10		
11:46	ZZZZZZ	10		
11:49	ZZZZZZ	10		
11:53	ZZZZZZ	10		
11:56	ZZZZZZ	10		
11:59	ZZZZZZ	10		
12:03	ZZZZZZ	10		
12:06	MA7694-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7694
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:11	MA7694-CCB3	1		
12:14	ZZZZZZ	10		
12:18	ZZZZZZ	2		
12:21	ZZZZZZ	2		
12:24	ZZZZZZ	5		
12:28	ZZZZZZ	4		
12:31	ZZZZZZ	2		
12:35	ZZZZZZ	5		
12:38	ZZZZZZ	5		
12:41	ZZZZZZ	10		
12:45	ZZZZZZ	1		
12:48	MA7694-CCV4	1		
12:53	MA7694-CCB4	1		
12:56	ZZZZZZ	20		
12:59	ZZZZZZ	20		
13:03	ZZZZZZ	20		
13:06	ZZZZZZ	20		
13:10	MA7694-CCV5	1		
13:14	MA7694-CCB5	1		
14:46	MA7694-CCV6	1		
14:51	MA7694-CCB6	1		
14:54	F69530-9	5		(sample used for QC only; not part of login F69760)
14:58	MP17376-D1	5		
15:01	MP17376-SD1	25		
15:04	MP17376-S1	5		
15:08	MP17376-S2	5		
15:11	MA7694-CCV7	1		
15:16	MA7694-CCB7	1		
16:08	MA7694-CCV8	1		
16:13	MA7694-CCB8	1		
16:16	MP17412-MB1	1		
16:19	MP17412-B1	1		
16:23	F69717-1	1		(sample used for QC only; not part of login F69760)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7694
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:26	MP17412-D1	1		
16:30	MP17412-SD1	5		
16:33	MP17412-PS1	1		
16:36	MP17412-S1	1		
16:40	MP17412-S2	1		
---------->	Last reportable sample/prep for job F69760			
16:50	MA7694-CCV9	1		
16:55	MA7694-CCB9	1		
17:08	ZZZZZZ	1		
17:12	ZZZZZZ	1		
17:15	ZZZZZZ	1		
17:20	ZZZZZZ	1		
17:24	ZZZZZZ	1		
17:27	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:34	MA7694-CCV10	1		
17:38	MA7694-CCB10	1		
17:42	ZZZZZZ	1		
17:45	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:52	ZZZZZZ	1		
17:56	MP17413-MB1	1		
18:00	MP17413-B1	1		
18:17	MA7694-CCV11	1		
18:21	MA7694-CCB11	1		
18:35	ZZZZZZ	1		
18:59	MA7694-CCV12	1		
19:03	MA7694-CCB12	1		
19:18	MP17416-MB1	1		
19:21	MP17416-B1	1		
19:24	F69722-2A	1		(sample used for QC only; not part of login F69760)
19:28	MP17416-D1	1		
19:31	MP17416-SD1	5		
19:35	MP17416-PS1	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7694
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:38	MP17416-S1	1		
19:42	MA7694-CCV13	1		
19:46	MA7694-CCB13	1		
19:49	MP17416-S2	1		
19:53	ZZZZZZ	1		
19:56	ZZZZZZ	1		
20:00	ZZZZZZ	1		
20:03	ZZZZZZ	1		
20:06	ZZZZZZ	1		
20:10	ZZZZZZ	1		
20:13	ZZZZZZ	1		
20:17	ZZZZZZ	1		
20:20	ZZZZZZ	1		
20:23	MA7694-CCV14	1		
20:28	MA7694-CCB14	1		
20:31	ZZZZZZ	1		
20:35	ZZZZZZ	1		
20:38	ZZZZZZ	1		
20:42	ZZZZZZ	1		
20:46	MP17416-MB2A	1		
20:49	MP17415-MB1	1		
20:53	MP17415-B1	1		
20:56	F68755-28T	1		(sample used for QC only; not part of login F69760)
21:00	MP17415-D1	1		
21:03	MP17415-SD1	5		
21:06	MA7694-CCV15	1		
21:11	MA7694-CCB15	1		
21:14	MP17415-S1	1		
21:18	ZZZZZZ	1		
21:21	ZZZZZZ	1		
21:25	ZZZZZZ	1		
21:28	ZZZZZZ	1		
21:32	MP17415-MB2	1		

13.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7694
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:36	MP17415-B2	1		
21:40	MP17417-MB1	1		
21:44	MP17417-B1	1		
21:47	F69700-1	1		(sample used for QC only; not part of login F69760)
21:50	MA7694-CCV16	1		
21:55	MA7694-CCB16	1		
21:58	MP17417-D1	1		
22:02	MP17417-SD1	5		
22:05	MP17417-S1	1		
22:09	ZZZZZZ	1		
22:12	ZZZZZZ	1		
22:15	F69775-1	1		(sample used for QC only; not part of login F69760)
22:19	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:26	MP17417-D2	1		
22:29	MA7694-CCV17	1		
22:33	MA7694-CCB17	1		
22:37	MP17417-MB2	1		
22:40	MP17417-B2	1		
22:45	MA7694-CRIA3	1		
22:48	MA7694-CRI2	1		
22:52	MA7694-ICSA2	1		
22:55	MA7694-ICSAB2	1		
22:58	MA7694-CCV18	1		
23:03	MA7694-CCB18	1		

----------> Last reportable CCB for job F69760
Refer to raw data for calibration curve and standards.

13.1
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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		09:45			10:42			11:24	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2040	102.0	2000	2030	101.5	2000	2030	101.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		12:06			12:48			13:10	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2020	101.0	2000	2040	102.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		14:46			15:11			16:08	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2040	102.0	2000	2020	101.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		16:50			17:34			18:17	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2040	102.0	2000	2040	102.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		18:59			19:42			20:23	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1960	98.0	2000	2010	100.5	2000	2020	101.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		21:06			21:50			22:29	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2020	101.0	2000	2030	101.5	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7694 Units: ug/l

Time:		22:58	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	2000	100.0
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

13.1.3 13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7694 Units: ug/l

Time:			09:53		10:47		11:29		12:11	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	1.5	<10	2.9	<10	3.1	<10	1.7	<10
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7694 Units: ug/l

Time:			12:53		13:14		14:51		15:16	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	2.4	<10	2.7	<10	0.97	<10	2.1	<10
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2
13

ACCUTEST. Laboratories
F69760

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7694 Units: ug/l

Time:			16:13		16:55		17:38		18:21	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	2.7	<10	1.4	<10	3.4	<10	2.7	<10
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7694 Units: ug/l

Time:			19:03		19:46		20:28		21:11	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11	anr							
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100	anr							
Chromium	10	1.6	anr							
Cobalt	50	.83	anr							
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	1.9	<10	1.2	<10	2.5	<10	3.0	<10
Magnesium	5000	100	anr							
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100	anr							
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8								
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

ACCUTEST. Laboratories
F69760

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR113009.ASC Date Analyzed: 11/30/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7694 Units: ug/l

Time:			21:55		22:33		23:03	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	11	anr					
Antimony	6.0	4.5	anr					
Arsenic	10	3.6	anr					
Barium	200	5	anr					
Beryllium	4.0	1	anr					
Cadmium	5.0	1	anr					
Calcium	1000	100	anr					
Chromium	10	1.6	anr					
Cobalt	50	.83	anr					
Copper	25	2.1	anr					
Iron	300	23	anr					
Lead	5.0	2	2.2	<10	2.4	<10	2.4	<10
Magnesium	5000	100	anr					
Manganese	15	.5	anr					
Molybdenum	50	2.8						
Nickel	40	2.3	anr					
Potassium	10000	100	anr					
Selenium	10	3.1	anr					
Silver	10	1.2	anr					
Sodium	10000	500	anr					
Thallium	10	3.4	anr					
Tin	50	2.8						
Vanadium	50	.66	anr					
Zinc	20	3.8	anr					

(*) Outside of QC limits
(anr) Analyte not requested

13.1.2

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7698
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:17	MA7698-HSTD1	1		
09:21	MA7698-ICV1	1		
09:27	MA7698-ICB1	1		
09:36	MA7698-CRIA1	1		
09:42	MA7698-CRI1	1		
09:48	MA7698-ICSA1	1		
09:49	MA7698-ICSAB1	1		
09:54	MA7698-CCV1	1		
09:58	MA7698-CCB1	1		2.2
10:31	MA7698-CCV2	1		
10:36	MA7698-CCB2	1		
10:43	ZZZZZZ	2		
10:46	F69686-1	20		(sample used for QC only; not part of login F69760)
10:49	MP17413-D1	20		
10:53	MP17413-SD1	100		
10:56	MP17413-S1	20		
11:00	MP17413-S2	20		
11:03	ZZZZZZ	10		
11:06	ZZZZZZ	10		
11:10	ZZZZZZ	10		
11:13	ZZZZZZ	10		
11:17	MA7698-CCV3	1		
11:21	MA7698-CCB3	1		< 2
11:24	ZZZZZZ	10		
11:28	ZZZZZZ	5		
11:31	ZZZZZZ	5		
11:35	ZZZZZZ	5		
11:38	ZZZZZZ	10		
11:41	ZZZZZZ	4		
11:58	MA7698-CCV4	1		
12:03	MA7698-CCB4	1		< 2
12:06	F69760-15	10		147
---------->	Last reportable sample/prep for job F69760			
12:10	ZZZZZZ	4		

13.2
13

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7698
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:17	ZZZZZZ	50		
12:20	ZZZZZZ	4		
12:23	ZZZZZZ	2		
12:27	ZZZZZZ	4		
12:31	ZZZZZZ	100		
12:35	MA7698-CCV5	1		
12:39	MA7698-CCB5	1		
12:45	MP17422-MB1	1		
12:48	MP17422-B1	1		
12:52	F69740-2	1		(sample used for QC only; not part of login F69760)
12:55	MP17422-D1	1		
12:59	MP17422-SD1	5		
13:02	MP17422-PS1	1		
13:05	MP17422-S1	1		
13:09	MP17422-S2	1		
13:12	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:19	MA7698-CCV6	1		
13:23	MA7698-CCB6	1		
13:27	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:40	ZZZZZZ	1		
13:44	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:54	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:01	MA7698-CCV7	1		
14:07	MA7698-CCB7	1		
14:10	ZZZZZZ	1		
14:14	ZZZZZZ	20		

13.2
13

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7698
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:17	ZZZZZZ	20		
14:21	ZZZZZZ	20		
14:24	MA7698-CCV8	1		
14:28	MA7698-CCB8	1		
14:39	MP17421-MB1	1		
14:43	MP17421-B1	1		
14:46	F69634-1	1		(sample used for QC only; not part of login F69760)
14:50	MP17421-D1	1		
14:53	MP17421-SD1	5		
14:56	MP17421-PS1	1		
15:00	MP17421-S1	1		
15:03	MP17421-S2	1		
15:07	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:13	MA7698-CCV9	1		
15:18	MA7698-CCB9	1		
15:21	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:28	ZZZZZZ	1		
15:31	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:55	MA7698-CCV10	1		
16:00	MA7698-CCB10	1		
16:03	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:10	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:17	ZZZZZZ	1		

13.2
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7698
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:21	MP17423-MB1	1		
16:25	MP17423-B1	1		
16:28	F69737-2	1		(sample used for QC only; not part of login F69760)
16:31	MP17423-D1	1		
16:35	MP17423-SD1	5		
16:38	MA7698-CCV11	1		
16:43	MA7698-CCB11	1		
16:46	MP17423-PS1	1		
16:49	MP17423-S1	1		
16:53	MP17423-S2	1		
16:56	ZZZZZZ	1		
17:00	ZZZZZZ	1		
17:03	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:13	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:20	MA7698-CCV12	1		
17:25	MA7698-CCB12	1		
17:28	ZZZZZZ	1		
17:31	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:46	MP17424-MB1	1		
17:49	MP17424-B1	1		
17:53	F69722-2	1		(sample used for QC only; not part of login F69760)
17:56	MP17424-D1	1		
18:00	MP17424-SD1	5		
18:03	MA7698-CCV13	1		
18:07	MA7698-CCB13	1		
18:11	MP17424-PS1	1		
18:14	MP17424-S1	1		

13.2
13

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7698
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:18	MP17424-S2	1		
18:21	ZZZZZZ	1		
18:24	ZZZZZZ	1		
18:28	ZZZZZZ	1		
18:31	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:38	ZZZZZZ	1		
18:42	ZZZZZZ	1		
18:45	MA7698-CCV14	1		
18:49	MA7698-CCB14	1		
18:53	ZZZZZZ	1		
18:56	ZZZZZZ	1		
19:00	ZZZZZZ	1		
19:03	ZZZZZZ	1		
19:06	ZZZZZZ	1		
19:10	ZZZZZZ	1		
19:13	ZZZZZZ	1		
19:17	ZZZZZZ	1		
19:20	ZZZZZZ	1		
19:24	MA7698-CCV15	1		
19:28	MA7698-CCB15	1		
19:31	MA7698-CRIA2	1		
19:35	MA7698-CRI2	1		
19:38	MA7698-ICSA2	1		
19:42	MA7698-ICSAB2	1		
19:45	MA7698-CCV16	1		
19:49	MA7698-CCB16	1		

----------> Last reportable CCB for job F69760
Refer to raw data for calibration curve and standards.

13.2

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7698 Units: ug/l

Time:		09:21			09:54			10:31		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	2020	101.0	2000	2020	101.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.2.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7698 Units: ug/l

Time:		11:17			11:58			12:35		
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	2000	2020	101.0	2000	2030	101.5	2000	2010	100.5	
Magnesium										
Manganese	anr									
Molybdenum										
Nickel	anr									
Potassium										
Selenium	anr									
Silver	anr									
Sodium	anr									
Thallium	anr									
Tin	anr									
Vanadium	anr									
Zinc	anr									

(*) Outside of QC limits
(anr) Analyte not requested

13.2.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7698 Units: ug/l

Time:		13:19			14:01			14:24	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	2020	101.0	2000	2000	100.0	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.2.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7698 Units: ug/l

Time:		15:13			15:55			16:38		
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Aluminum										
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5	
Magnesium										
Manganese	anr									
Molybdenum										
Nickel	anr									
Potassium										
Selenium	anr									
Silver	anr									
Sodium	anr									
Thallium	anr									
Tin	anr									
Vanadium	anr									
Zinc	anr									

(*) Outside of QC limits
(anr) Analyte not requested

13.2.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7698 Units: ug/l

Time:		17:20			18:03			18:45	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2010	100.5	2000	2040	102.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.2.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7698 Units: ug/l

Time:		19:24			19:45		
Sample ID:	CCV	CCV15		CCV	CCV16		
Metal	True	Results	% Rec	True	Results	% Rec	
Aluminum							
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt							
Copper	anr						
Iron	anr						
Lead	2000	2030	101.5	2000	1980	99.0	
Magnesium							
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium							
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium	anr						
Tin	anr						
Vanadium	anr						
Zinc	anr						

(*) Outside of QC limits
(anr) Analyte not requested

13.2.3

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7698 Units: ug/l

Time:			09:27		09:58		10:36		11:21	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	1.5	<10	2.2	<10	0.97	<10	1.7	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100								
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8	anr							
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.2.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7698 Units: ug/l

Time:			12:03		12:39		13:23		14:07	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	1.9	<10	1.7	<10	1.8	<10	1.4	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100								
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8	anr							
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.2.2

ACCUTEST. Laboratories
F69760

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7698 Units: ug/l

Time:			14:28		15:18		16:00		16:43	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	1.8	<10	2.1	<10	2.6	<10	2.5	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100								
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8	anr							
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.2.2
13

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7698 Units: ug/l

Time:			17:25		18:07		18:49		19:28	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5	anr							
Arsenic	10	3.6	anr							
Barium	200	5	anr							
Beryllium	4.0	1	anr							
Cadmium	5.0	1	anr							
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	0.89	<10	1.7	<10	2.7	<10	1.7	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3	anr							
Potassium	10000	100								
Selenium	10	3.1	anr							
Silver	10	1.2	anr							
Sodium	10000	500	anr							
Thallium	10	3.4	anr							
Tin	50	2.8	anr							
Vanadium	50	.66	anr							
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.2.2

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120109.ASC Date Analyzed: 12/01/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7698 Units: ug/l

Time:			19:49	
Sample ID:			CCB16	
Metal	RL	IDL	raw	final
Aluminum	200	11		
Antimony	6.0	4.5	anr	
Arsenic	10	3.6	anr	
Barium	200	5	anr	
Beryllium	4.0	1	anr	
Cadmium	5.0	1	anr	
Calcium	1000	100		
Chromium	10	1.6	anr	
Cobalt	50	.83		
Copper	25	2.1	anr	
Iron	300	23	anr	
Lead	5.0	2	2.2	<10
Magnesium	5000	100		
Manganese	15	.5	anr	
Molybdenum	50	2.8		
Nickel	40	2.3	anr	
Potassium	10000	100		
Selenium	10	3.1	anr	
Silver	10	1.2	anr	
Sodium	10000	500	anr	
Thallium	10	3.4	anr	
Tin	50	2.8	anr	
Vanadium	50	.66	anr	
Zinc	20	3.8	anr	

(*) Outside of QC limits
(anr) Analyte not requested

13.2.2

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7700
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:29	MA7700-HSTD1	1		
09:33	MA7700-ICV1	1		
09:41	MA7700-ICB1	1		
09:46	MA7700-CRIA1	1		
09:53	MA7700-CRI1	1		
09:57	MA7700-CRI2	1		
10:03	MA7700-ICSA1	1		
10:05	MA7700-ICSAB1	1		
10:09	MA7700-CCV1	1		
10:13	MA7700-CCB1	1		
10:17	F69760-11	20		
10:20	F69760-12	20		
10:23	F69760-13	20		
10:27	F69760-14	20		
---------->	Last reportable sample/prep for job F69760			
10:30	ZZZZZZ	20		
10:34	ZZZZZZ	2		
10:37	ZZZZZZ	4		
10:41	ZZZZZZ	10		
10:44	MA7700-CCV2	1		
10:48	MA7700-CCB2	1		
11:30	MA7700-CCV3	1		
11:34	MA7700-CCB3	1		
11:42	MP17425-MB1	1		
11:45	MP17425-B1	1		
11:49	F69812-1	1		(sample used for QC only; not part of login F69760)
11:52	MP17425-D1	1		
11:55	MP17425-SD1	5		
11:59	MP17425-PS1	1		
12:02	MP17425-S1	1		
12:06	MP17425-S2	1		
12:09	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:16	MA7700-CCV4	1		

2.9
48.5
10
5.24
12
3.1

13.3
15

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
Analyst: RS Run ID: MA7700
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:20	MA7700-CCB4	1		
12:24	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:44	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:55	MP17425-MB2A	1		
12:59	MA7700-CCV5	1		
13:03	MA7700-CCB5	1		
13:07	MA7700-CRIA2	1		
13:10	MA7700-CRI3	1		
13:13	MA7700-ICSA2	1		
13:17	MA7700-ICSAB2	1		
13:20	MA7700-CCV6	1		
13:25	MA7700-CCB6	1		

----------> Last reportable CCB for job F69760
Refer to raw data for calibration curve and standards.

13.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7700 Units: ug/l

	Time:		09:33			10:09			10:44	
Metal	Sample ID: ICV True	ICV1 Results	% Rec	CCV True	CCV1 Results	% Rec	CCV True	CCV2 Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	2020	101.0	2000	1990	99.5	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver									
Sodium									
Thallium									
Tin									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.3.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7700 Units: ug/l

Time:		11:30			12:16			12:59	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	1990	99.5	2000	2010	100.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver									
Sodium									
Thallium									
Tin									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

13.3.3

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA7700 Units: ug/l

Time:		13:20	
Sample ID:	CCV	CCV6	
Metal	True	Results	% Rec
Aluminum			
Antimony			
Arsenic	anr		
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	2000	1980	99.0
Magnesium			
Manganese	anr		
Molybdenum			
Nickel			
Potassium			
Selenium	anr		
Silver			
Sodium			
Thallium			
Tin			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

13.3.3

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7700 Units: ug/l

Time:			09:41		10:13		10:48		11:34	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	11								
Antimony	6.0	4.5								
Arsenic	10	3.6	anr							
Barium	200	5								
Beryllium	4.0	1								
Cadmium	5.0	1								
Calcium	1000	100								
Chromium	10	1.6	anr							
Cobalt	50	.83								
Copper	25	2.1	anr							
Iron	300	23	anr							
Lead	5.0	2	1.8	<10	2.9	<10	3.1	<10	2.7	<10
Magnesium	5000	100								
Manganese	15	.5	anr							
Molybdenum	50	2.8								
Nickel	40	2.3								
Potassium	10000	100								
Selenium	10	3.1	anr							
Silver	10	1.2								
Sodium	10000	500								
Thallium	10	3.4								
Tin	50	2.8								
Vanadium	50	.66								
Zinc	20	3.8	anr							

(*) Outside of QC limits
(anr) Analyte not requested

13.3.2

ACCUTEST. Laboratories
F69760

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

File ID: IR120209.ASC Date Analyzed: 12/02/09 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA7700 Units: ug/l

Time:			12:20		13:03		13:25	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	11						
Antimony	6.0	4.5						
Arsenic	10	3.6	anr					
Barium	200	5						
Beryllium	4.0	1						
Cadmium	5.0	1						
Calcium	1000	100						
Chromium	10	1.6	anr					
Cobalt	50	.83						
Copper	25	2.1	anr					
Iron	300	23	anr					
Lead	5.0	2	3.2	<10	1.7	<10	3.0	<10
Magnesium	5000	100						
Manganese	15	.5	anr					
Molybdenum	50	2.8						
Nickel	40	2.3						
Potassium	10000	100						
Selenium	10	3.1	anr					
Silver	10	1.2						
Sodium	10000	500						
Thallium	10	3.4						
Tin	50	2.8						
Vanadium	50	.66						
Zinc	20	3.8	anr					

(*) Outside of QC limits
(anr) Analyte not requested

13.3.2

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F69760
Account: TETRPAPT - Tetra Tech NUS
Project: NAS Key West, Key West, FL

QC Batch ID: MP17412
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/30/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	8.3	.45	.83		
Antimony	2.5	.19	.2		
Arsenic	0.33	.15	.15		
Barium	8.3	.21	.41		
Beryllium	0.21	.041	.083		
Cadmium	0.17	.041	.041		
Calcium	210	4.1	4.1		
Chromium	0.41	.066	.066		
Cobalt	2.1	.034	.034		
Copper	1.0	.087	.087		
Iron	4.1	.95	1.1		
Lead	4.1	.083	.19	0.11	<4.1
Magnesium	210	4.1	4.1		
Manganese	0.62	.021	.021		
Molybdenum	2.1	.12	.12		
Nickel	1.7	.095	.13		
Potassium	410	4.1	4.1		
Selenium	4.1	.13	.13		
Silver	0.41	.05	.05		
Sodium	410	21	34		
Thallium	0.41	.14	.14		
Tin	2.1	.12	.3		
Vanadium	2.1	.027	.027		
Zinc	0.83	.16	.16		

Associated samples MP17412: F69760-11, F69760-12, F69760-13, F69760-14, F69760-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

13.4.1 13

Instrument Detection Limits

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Instrument ID: TJATRACE1 Effective Date: 06/11/08

Analyte	IDL ug/l
Aluminum	11
Antimony	4.5
Arsenic	3.6
Barium	5
Beryllium	1
Cadmium	1
Calcium	100
Chromium	1.6
Cobalt	.83
Copper	2.1
Iron	23
Lead	2
Magnesium	100
Manganese	.5
Molybdenum	2.8
Nickel	2.3
Potassium	100
Selenium	3.1
Silver	1.2
Sodium	500
Thallium	3.4
Tin	2.8
Vanadium	.66
Zinc	3.8

The above applies to the following instrument runs:
MA7694,MA7698,MA7700

13.5

Metals Digestion Log Soil

MP #: 17412

Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 11/30/09 13:00
HotBlock I.D. 2
Thermometer I.D. 207
Correction Factor (°C) 0
Temperature Observed/Corrected (°C) 90, 90
Balance I.D. advpro3

Spk. Sol. [A]	Volume Used(ml)	Pipette #
ACC565	0.5	20
ACC563	0.25	20
Met3184	0.25	20

Filter Lot: W792
Dig. Tube Lot#: J89662-241

Added [B]:	HNO_3	HCL	H_2O_2
Mfg:(circle one)	Fisher / (Baker)	Fisher / (Baker)	Fisher
Lot#	H12022	H26025	90685

	Sample #	Wt., g	Final Volume(ml)	Comments
	Method Blank(MB)	1.21	50ml	
	Spike Blank(SB)	1.19		
	Matrix Spike(MS)	1.18		
	Matrix Spike Dup(MSD)	1.05		
	Duplicate(DUP)	1.25		
1	QC [C] F69717-1	1.08		
2	F69760-11	1.29		
3	12	1.04		
4	13	1.19		
5	14	1.16		
6	15	1.01		
7	F69746-1	1.10		
8	F69767-1	1.07		
9	F69781-1	1.13		
10	2	1.10		
11	F69744-1	1.00		
12	F69763-1	1.07		
13	F69678-1	1.22		
14	F69798-1	1.04		
15	2	1.00		
16	3	1.13		
17	4	1.06		
18				
19				
20				
21 [E]				
22 [E]				
23 [E]				
24 [E]				NS 11/30/09

Analyst: Natasha Salazar Date: 11/30/09
QC Review: N Salazar Date: 11/30/09

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

Accutest SE
Rev 10/15/09 DM

Percent Solids Raw Data Summary

Job Number: F69760
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: F69760-11 Analyzed: 27-NOV-09 by LE Method: SM19 2540B M
ClientID: KWTFS-SB108-SO-0002

Wet Weight (Total)	7.22	g
Tare Weight	.96	g
Dry Weight (Total)	5.74	g
Solids, Percent	76.4	%

Sample: F69760-12 Analyzed: 27-NOV-09 by LE Method: SM19 2540B M
ClientID: KWTFS-SB114-SO-0002

Wet Weight (Total)	8.42	g
Tare Weight	.98	g
Dry Weight (Total)	7.39	g
Solids, Percent	86.2	%

Sample: F69760-13 Analyzed: 27-NOV-09 by LE Method: SM19 2540B M
ClientID: KWTFS-SB129-SO-0002

Wet Weight (Total)	6.15	g
Tare Weight	1	g
Dry Weight (Total)	4.78	g
Solids, Percent	73.4	%

Sample: F69760-14 Analyzed: 27-NOV-09 by LE Method: SM19 2540B M
ClientID: KWTFS-SB132-SO-0002

Wet Weight (Total)	7.11	g
Tare Weight	.94	g
Dry Weight (Total)	5.88	g
Solids, Percent	80.1	%

Sample: F69760-15 Analyzed: 27-NOV-09 by LE Method: SM19 2540B M
ClientID: KWTFS-SB147-SO-0002

Wet Weight (Total)	6.9	g
Tare Weight	.96	g
Dry Weight (Total)	5.33	g
Solids, Percent	73.6	%

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**C. BRYAN**	**DATE:**	**January 26, 2010**
FROM:	**A. COGNETTI**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH/PET**
CTO 105, NAS KEY WEST
SAMPLE DELIVERY GROUP (SDG) - F70116
LIMITED REVIEW

SAMPLES: 3/Aqueous/VOC

KWTFS-SB166-GW-0307 KWTFS-SB167-GW-0307 TFS-TB-02-1209

2/Aqueous /PAH/PET

KWTFS-SB166-GW-0307 KWTFS-SB167-GW-0307

OVERVIEW

The sample set for CTO 105 NAS KEY WEST, SDG F70116 consists of two (2) aqueous environmental samples and one (1) trip blank analyzed for Volatile Organic Compounds (VOC). The two (2) aqueous environmental samples were also analyzed for Polycyclic Aromatic Hydrocarbons (PAH) and Petroleum Range Organics (PET).

The samples were collected by Tetra Tech on December 10, 2009 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C by SIM and FL-PRO analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial/continuing calibrations
* • Laboratory method blank results
* • Detection limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles

According to the chain of custody, samples KWTFS-SB166-GW-0307 and KWTFS-SB167-GW-0307 were not preserved at a pH of 2.0. The aqueous samples were analyzed in a time period greater than 7 days but less than 14 days. The nondetected aromatic results in the affected samples KWTFS-SB166-GW-0307 and KWTFS-SB167-GW-0307 were qualified as (UJ).

Notes:

Results were reported down to the MDL (Method Detection Limit).

EXECUTIVE SUMMARY

Laboratory Performance Issues: Samples KWTFS-SB166-GW-0307 and KWTFS-SB167-GW-0307 were not preserved to a pH of 2.0. Aromatic nondetected results were qualified in those samples.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01294	NSAMPLE	KWTFS-SB166-GW-0307			KWTFS-SB167-GW-0307			TFS-TB-02-1209		
SDG: F70116	LAB_ID	F70116-1			F70116-2			F70116-3		
FRACTION: OV	SAMP_DATE	12/10/2009			12/10/2009			12/10/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS									
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.33	U		0.33	U		0.33	U	
1,1,2,2-TETRACHLOROETHANE		0.21	U		0.21	U		0.21	U	
1,1,2-TRICHLOROETHANE		0.26	U		0.26	U		0.26	U	
1,1-DICHLOROETHANE		0.24	U		0.24	U		0.24	U	
1,1-DICHLOROETHENE		0.54	U		0.54	U		0.54	U	
1,2-DICHLOROBENZENE		0.2	UJ	M	0.2	UJ	M	0.2	U	
1,2-DICHLOROETHANE		0.34	U		0.34	U		0.34	U	
1,2-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U	
1,3-DICHLOROBENZENE		0.23	UJ	M	0.23	UJ	M	0.23	U	
1,4-DICHLOROBENZENE		0.22	UJ	M	0.22	UJ	M	0.22	U	
2-CHLOROETHYL VINYL ETHER		1	U		1	U		1	U	
ACROLEIN		5	U		5	U		5	U	
ACRYLONITRILE		2	U		2	U		2	U	
BENZENE		0.4	UJ	M	0.4	UJ	M	0.4	U	
BROMODICHLOROMETHANE		0.2	U		0.2	U		0.2	U	
BROMOFORM		0.33	U		0.33	U		0.33	U	
BROMOMETHANE		0.78	U		0.78	U		0.78	U	
CARBON TETRACHLORIDE		0.22	U		0.22	U		0.22	U	
CHLOROBENZENE		0.22	UJ	M	0.22	UJ	M	0.22	U	
CHLORODIBROMOMETHANE		0.2	U		0.2	U		0.2	U	
CHLOROETHANE		0.48	U		0.48	U		0.48	U	
CHLOROFORM		0.28	U		0.28	U		0.28	U	
CHLOROMETHANE		0.61	U		0.61	U		0.61	U	
CIS-1,2-DICHLOROETHENE		0.2	U		0.2	U		0.2	U	
CIS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U	
DICHLORODIFLUOROMETHANE		1	U		1	U		1	U	
ETHYLBENZENE		0.43	UJ	M	0.43	UJ	M	0.43	U	
METHYL TERT-BUTYL ETHER		0.26	U		0.26	U		0.26	U	
METHYLENE CHLORIDE		1	U		1	U		1	U	
TETRACHLOROETHENE		0.22	U		0.22	U		0.22	U	
TOLUENE		0.35	UJ	M	0.35	UJ	M	0.35	U	
TOTAL XYLENES		1.2	UJ	M	1.2	UJ	M	1.2	U	
TRANS-1,2-DICHLOROETHENE		0.45	U		0.45	U		0.45	U	
TRANS-1,3-DICHLOROPROPENE		0.21	U		0.21	U		0.21	U	
TRICHLOROETHENE		0.32	U		0.32	U		0.32	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB166-GW-0307			KWTFS-SB167-GW-0307			TFS-TB-02-1209		
SDG: F70116	LAB_ID	F70116-1			F70116-2			F70116-3		
FRACTION: OV	SAMP_DATE	12/10/2009			12/10/2009			12/10/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS									
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		0.3	U		0.3	U		0.3	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB166-GW-0307			KWTFS-SB167-GW-0307		
SDG: F70116	LAB_ID	F70116-1			F70116-2		
FRACTION: PAH	SAMP_DATE	12/10/2009			12/10/2009		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS						
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.24	U		0.24	U	
2-METHYLNAPHTHALENE		0.24	U		0.24	U	
ACENAPHTHENE		0.48	U		0.48	U	
ACENAPHTHYLENE		0.48	U		0.48	U	
ANTHRACENE		0.48	U		0.48	U	
BENZO(A)ANTHRACENE		0.048	U		0.048	U	
BENZO(A)PYRENE		0.048	U		0.048	U	
BENZO(B)FLUORANTHENE		0.048	U		0.048	U	
BENZO(G,H,I)PERYLENE		0.048	U		0.048	U	
BENZO(K)FLUORANTHENE		0.048	U		0.048	U	
CHRYSENE		0.096	U		0.096	U	
DIBENZO(A,H)ANTHRACENE		0.048	U		0.048	U	
FLUORANTHENE		0.24	U		0.24	U	
FLUORENE		0.48	U		0.48	U	
INDENO(1,2,3-CD)PYRENE		0.048	U		0.048	U	
NAPHTHALENE		0.24	U		0.24	U	
PHENANTHRENE		0.24	U		0.24	U	
PYRENE		0.24	U		0.24	U	

PROJ_NO: 01294	NSAMPLE	KWTFS-SB166-GW-0307			KWTFS-SB167-GW-0307		
SDG: F70116	LAB_ID	F70116-1			F70116-2		
FRACTION: PET	SAMP_DATE	12/10/2009			12/10/2009		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	MG/L			MG/L		
	PCT_SOLIDS						
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C40)		0.17	U		0.16	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB166-GW-0307		
Lab Sample ID:	F70116-1	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F039728.D	1	12/23/09	LD	n/a	n/a	VF1093
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB166-GW-0307		
Lab Sample ID:	F70116-1	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB167-GW-0307		
Lab Sample ID:	F70116-2	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F039729.D	1	12/23/09	LD	n/a	n/a	VF1093
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
RL = Reporting Limit = PQL V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	KWTFS-SB167-GW-0307		
Lab Sample ID:	F70116-2	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TFS-TB-02-1209		
Lab Sample ID:	F70116-3	Date Sampled:	12/10/09
Matrix:	AQ - Trip Blank Water	Date Received:	12/12/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F039730.D	1	12/23/09	LD	n/a	n/a	VF1093
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TFS-TB-02-1209		
Lab Sample ID:	F70116-3	Date Sampled:	12/10/09
Matrix:	AQ - Trip Blank Water	Date Received:	12/12/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

VOA PPL List + MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB166-GW-0307		
Lab Sample ID:	F70116-1	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R20928.D	1	12/23/09	RB	12/17/09	OP31283	SR1022
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB167-GW-0307		
Lab Sample ID:	F70116-2	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R20929.D	1	12/23/09	RB	12/17/09	OP31283	SR1022
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	63%		39-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range
I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB166-GW-0307		
Lab Sample ID:	F70116-1	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61877.D	1	12/16/09	FEA	12/14/09	OP31240	GIJ2112
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.17 U	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	KWTFS-SB167-GW-0307		
Lab Sample ID:	F70116-2	Date Sampled:	12/10/09
Matrix:	AQ - Ground Water	Date Received:	12/12/09
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS Key West, Key West, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ61878.D	1	12/16/09	FEA	12/14/09	OP31240	GIJ2112
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F70116

Site: NAS Key West, Key West, FL **Report Date:** 1/4/2010 11:02:51 AM

2 Samples and 1 Trip Blank were collected on 12/10/2009 and were received at Accutest SE on 12/12/2009 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F70116. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VF1093

All samples were analyzed within the recommended method holding time.

Samples F70142-4MS, F70142-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recovery for Tetrachloroethylene is outside control limits. Probable cause due to matrix interference.

F70116-1, F70116-2: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP31283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F70146-3MS, F70146-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recoverys for 1-Methylnaphthalene, Acenaphthylene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2-Methylnaphthalene, Acenaphthene, Fluorene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Duplicate Recoverys for 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Fluorene are outside control limits. Probable cause due to matrix interference.

RPDs for MSD for 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene are outside control limits for sample OP31283-MSD. Probable cause due to sample non-homogeneity.

Samples OP31283-MS, OP31283-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP31283-MS, OP31283-MSD for Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

Extractables by GC by Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP31240

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F70100-4MS, F70100-4MSD were used as the QC samples indicated.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: January 4, 2010

Ellen Pampel, Inorganic QA (signature on file)

Monday, January 04, 2010

F70116

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000109-4

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01294	**KEY WEST NAS**	**Chuck Bryan**	**Federal Express**	**Accutest Labs, SE 4405 Vineland Road Orlando, FL 32811**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
0105	**Standard**	**Gary Braganza**	**870516209769**	**Heather Wandrey 407-425-6700 x120**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
~~10/22/2009~~	~~KWTFS-SB144-GW-0307~~	~~09:40~~	~~B-Tec/ColorTec~~	~~KWTFS-SB144~~	~~GW~~	~~BTEX Headspace Purge~~	~~None~~	~~1~~	~~Glass - Clear~~	~~40mL vials~~	
12/10/2009	KWTFS-SB166-GW-0307	10:25	**SW-846 5030B/8260**	KWTFS-SB166	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
12/10/2009	KWTFS-SB166-GW-0307	10:25	**SW-846 8270C SIM**	KWTFS-SB166	GW	PAHs	4°C	2	Glass - Amber	1L	
12/10/2009	KWTFS-SB166-GW-0307	10:25	**FL-PRO**	KWTFS-SB166	GW	TRPH	4°C	2	Glass - Amber	1L	
12/10/2009	KWTFS-SB167-GW-0307	11:05	**SW-846 5030B/8260**	KWTFS-SB167	GW	VOCs (incl BTEX + MTBE)	4°C/HCL	3	Glass - Clear	40ml vials	
12/10/2009	KWTFS-SB167-GW-0307	11:05	**SW-846 8270C SIM**	KWTFS-SB167	GW	PAHs	4°C	2	Glass - Amber	1L	
12/10/2009	KWTFS-SB167-GW-0307	11:05	**FL-PRO**	KWTFS-SB167	GW	TRPH	4°C	2	Glass - Amber	1L	
12/10/2009	TFS-TB-02-1209	08:00	**SW-846 5030B/8260**	QC	AQ	VOCs (incl BTEX + MTBE)	4°C/HCL	2	Glass - Clear	40ml vials	

1. Relinquished By: **Gary Braganza**	Date: 12/11/2009	Time: 15:58	Received By: **Federal Express**	Date: 12/11/2009	Time: 16:58
2. Relinquished By:	Date:	Time:	Received By: Accutest	Date: 12.11.09	Time: 10:00
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:

3.6

4.1 4

F70116: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F70116 CLIENT: TetraTech PROJECT: 112601294

DATE/TIME RECEIVED: 12.12.09 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ?

NUMBER OF 5035 FIELD KITS ?

NUMBER OR LAB FILTERED METALS ?

TEMPERATURE INFORMATION

- [ ] IR THERM ID 2 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: Samp #1 (Amber (TRPH) broken received

TECHNICIAN SIGNATURE/DATE E.T. 12.12.09 REVIEWER SIGNATURE/DATE 12/12/09

NF 10/09 RECEIPT CONFIRMATION 100609 (2).xls

F70116: Chain of Custody
Page 2 of 2

Accutest Laboratories

Sample Summary

Tetra Tech NUS

Job No: F70116

NAS Key West, Key West, FL
Project No: 112G01294

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F70116-1	12/10/09	10:25	GB	12/12/09	AQ	Ground Water	KWTFS-SB166-GW-0307
F70116-2	12/10/09	11:05	GB	12/12/09	AQ	Ground Water	KWTFS-SB167-GW-0307
F70116-3	12/10/09	08:00	GB	12/12/09	AQ	Trip Blank Water	TFS-TB-02-1209

SDG F70116

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	TFS-TB-02-1209	F70116-3	NM	12/10/2009	12/23/2009	12/23/2009	13	0	13
OV	%	KWTFS-SB167-GW-0307	F70116-2	NM	12/10/2009	12/23/2009	12/23/2009	13	0	13
OV	%	KWTFS-SB166-GW-0307	F70116-1	NM	12/10/2009	12/23/2009	12/23/2009	13	0	13
OV	UG/L	TFS-TB-02-1209	F70116-3	NM	12/10/2009	12/23/2009	12/23/2009	13	0	13
OV	UG/L	KWTFS-SB167-GW-0307	F70116-2	NM	12/10/2009	12/23/2009	12/23/2009	13	0	13
OV	UG/L	KWTFS-SB166-GW-0307	F70116-1	NM	12/10/2009	12/23/2009	12/23/2009	13	0	13
SIM	%	KWTFS-SB167-GW-0307	F70116-2	NM	12/10/2009	12/17/2009	12/23/2009	7	6	13
SIM	%	KWTFS-SB166-GW-0307	F70116-1	NM	12/10/2009	12/17/2009	12/23/2009	7	6	13
SIM	UG/L	KWTFS-SB167-GW-0307	F70116-2	NM	12/10/2009	12/17/2009	12/23/2009	7	6	13
SIM	UG/L	KWTFS-SB166-GW-0307	F70116-1	NM	12/10/2009	12/17/2009	12/23/2009	7	6	13
TPH	%	KWTFS-SB167-GW-0307	F70116-2	NM	12/10/2009	12/14/2009	12/16/2009	4	2	6
TPH	%	KWTFS-SB166-GW-0307	F70116-1	NM	12/10/2009	12/14/2009	12/16/2009	4	2	6
TPH	MG/L	KWTFS-SB167-GW-0307	F70116-2	NM	12/10/2009	12/14/2009	12/16/2009	4	2	6
TPH	MG/L	KWTFS-SB166-GW-0307	F70116-1	NM	12/10/2009	12/14/2009	12/16/2009	4	2	6

Instrument Performance Check (BFB)

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	VF1093-BFB	Injection Date:	12/23/09
Lab File ID:	F039715.D	Injection Time:	13:17
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10445	21.1		Pass
75	30.0 - 60.0% of mass 95	28229	57.0		Pass
95	Base peak, 100% relative abundance	49493	100.0		Pass
96	5.0 - 9.0% of mass 95	3549	7.2		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	37858	76.5		Pass
175	5.0 - 9.0% of mass 174	2981	6.0	(7.9) [a]	Pass
176	95.0 - 101.0% of mass 174	36653	74.1	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2397	4.8	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF1093-IC1093	F039716.D	12/23/09	13:45	00:28	Initial cal 1
VF1093-IC1093	F039717.D	12/23/09	14:10	00:53	Initial cal 2
VF1093-IC1093	F039718.D	12/23/09	14:36	01:19	Initial cal 3
VF1093-ICC1093	F039719.D	12/23/09	15:01	01:44	Initial cal 4
VF1093-IC1093	F039720.D	12/23/09	15:26	02:09	Initial cal 5
VF1093-IC1093	F039721.D	12/23/09	15:51	02:34	Initial cal 6
VF1093-ICV1093	F039722.D	12/23/09	16:16	02:59	Initial cal verification 4
VF1093-BS	F039723.D	12/23/09	16:40	03:23	Blank Spike
VF1093-MB	F039725.D	12/23/09	17:31	04:14	Method Blank
ZZZZZZ	F039727.D	12/23/09	18:22	05:05	(unrelated sample)
F70116-1	F039728.D	12/23/09	18:47	05:30	KWTFS-SB166-GW-0307
F70116-2	F039729.D	12/23/09	19:12	05:55	KWTFS-SB167-GW-0307
F70116-3	F039730.D	12/23/09	19:38	06:21	TFS-TB-02-1209
F70142-4	F039731.D	12/23/09	20:03	06:46	(used for QC only; not part of job F70116)
F70142-4MS	F039732.D	12/23/09	20:28	07:11	Matrix Spike
F70142-4MSD	F039733.D	12/23/09	20:54	07:37	Matrix Spike Duplicate
ZZZZZZ	F039736.D	12/23/09	22:10	08:53	(unrelated sample)
ZZZZZZ	F039737.D	12/23/09	22:36	09:19	(unrelated sample)
ZZZZZZ	F039738.D	12/23/09	23:01	09:44	(unrelated sample)
ZZZZZZ	F039739.D	12/23/09	23:26	10:09	(unrelated sample)
ZZZZZZ	F039740.D	12/23/09	23:51	10:34	(unrelated sample)

Initial Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1093-ICC1093
Lab FileID: F039719.D

Response Factor Report MSVOA9

Method : C:\MSDCHEM\1\METHODS\8260FW.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Dec 23 16:14:17 2009
Response via : Initial Calibration

Calibration Files
1 =F039716.D 2 =F039717.D 3 =F039718.D 4 =F039719.D
5 =F039720.D 6 =F039721.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.465	0.394	0.626	0.570	0.528	0.504	0.515	15.70
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9951								
		Response Ratio = 0.00000 + 0.51994 *A								
3)	P	Chloromethane	0.568	0.455	0.631	0.604	0.596	0.587	0.573	10.78
4)	C	Vinyl Chloride	0.588	0.455	0.682	0.619	0.611	0.603	0.593	12.66
5)		Bromomethane	0.552	0.375	0.495	0.468	0.459	0.436	0.464	12.70
6)		Chloroethane	0.329	0.289	0.390	0.365	0.363	0.354	0.348	10.06
7)		Trichlorofluorometh	0.927	0.811	1.202	1.093	0.993	0.969	0.999	13.53
8)		Ethyl Ether	0.438	0.425	0.472	0.458	0.448	0.441	0.447	3.60
9)		1,2-Dichlorotrifluo	0.683	0.508	0.657	0.628	0.606	0.603	0.614	9.88
10)	C	1,1-Dichloroethene	0.827	0.659	0.978	0.907	0.858	0.851	0.846	12.56
11)		Freon 113	0.496	0.419	0.616	0.553	0.501	0.507	0.515	12.73
12)		Carbon Disulfide	1.912	1.274	1.807	1.690	1.662	1.668	1.669	12.98
13)		Iodomethane	0.778	0.709	0.927	0.873	0.862	0.871	0.837	9.44
14)		Allyl chloride	0.730	0.656	0.859	0.864	0.838	0.824	0.795	10.52
15)		Methylene Chloride	5.326	2.045	1.036	0.915	0.833	0.803	1.826	97.28
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.83008 *A								
16)		Acetone	0.212	0.186	0.182	0.173	0.169	0.165	0.181	9.36
17)		Methyl acetate	0.388	0.374	0.367	0.353	0.347	0.344	0.362	4.75
18)		trans-1,2-Dichloroe	0.912	0.693	0.952	0.911	0.881	0.871	0.870	10.50
19)		Hexane	0.622	0.367	0.477	0.440	0.405	0.405	0.453	20.10
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9979								
		Response Ratio = 0.00000 + 0.41005 *A								
20)		Methyl Tert Butyl E	1.994	2.100	2.227	2.133	2.098	2.049	2.100	3.75
21)		Acetonitrile	0.064	0.059	0.055	0.059	0.055	0.053	0.058	7.14
22)		Di-isopropyl ether	1.668	1.775	2.017	1.949	1.900	1.880	1.865	6.71
23)		Chloroprene	0.631	0.552	0.838	0.810	0.772	0.756	0.727	15.31
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9984								
		Response Ratio = 0.00000 + 0.76723 *A								
24)	P	1,1-Dichloroethane	0.960	0.943	1.173	1.156	1.120	1.100	1.075	9.25
25)		Acrylonitrile	0.167	0.179	0.179	0.172	0.173	0.171	0.174	2.74
26)		ETBE	2.031	2.138	2.374	2.293	2.223	2.178	2.206	5.44
27)		Vinyl acetate	0.581	0.646	0.702	0.677	0.663	0.629	0.649	6.45
28)		cis-1,2-Dichloroeth	0.512	0.512	0.606	0.586	0.574	0.584	0.562	7.17
29)		2,2-Dichloropropane	0.974	0.891	1.230	1.125	1.086	1.048	1.059	11.15
30)		Bromochloromethane	0.243	0.243	0.275	0.262	0.264	0.262	0.258	4.89
31)		Cyclohexane	0.768	0.627	0.983	0.921	0.864	0.874	0.839	15.01
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9983								
		Response Ratio = 0.00000 + 0.87777 *A								

Initial Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1093-ICC1093
Lab FileID: F039719.D

32)	C	Chloroform	1.157	1.124	1.361	1.311	1.262	1.248	1.244	7.21
33)		Ethyl acetate	0.124	0.146	0.147	0.136	0.124		0.135	8.21
34)		Tetrahydrofuran	0.139	0.135	0.148	0.141	0.137	0.139	0.140	3.33
35)	S	Dibromofluoromethan	0.335	0.342	0.336	0.339	0.328	0.325	0.334	1.94
36)		Carbon Tetrachlorid	0.882	0.823	1.269	1.198	1.131	1.127	1.072	16.66
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9984								
		Response Ratio = 0.00000 + 1.13775 *A								
37)		1,1,1-Trichloroetha	1.149	0.988	1.348	1.268	1.204	1.197	1.192	10.20
38)		2-Butanone	0.238	0.231	0.240	0.225	0.222	0.222	0.230	3.46
39)		1,1-Dichloropropene	0.755	0.642	0.917	0.872	0.840	0.847	0.812	12.17
40)		Propionitrile	0.072	0.073	0.071	0.070	0.069	0.068	0.071	2.55
41)		Methacrylonitrile	0.393	0.407	0.416	0.395	0.386	0.367	0.394	4.31
42)		Benzene	1.891	1.816	2.281	2.153	2.123	2.149	2.069	8.56
43)		TAME	1.839	2.021	2.204	2.113	2.062	2.017	2.043	5.97
44)	S	1,2-Dichloroethane-	0.508	0.525	0.531	0.501	0.483	0.470	0.503	4.70
45)		1,2-Dichloroethane	1.091	1.109	1.214	1.158	1.118	1.071	1.127	4.57
46)		Trichloroethene	0.605	0.485	0.661	0.635	0.622	0.617	0.604	10.19
47)		Methylcyclohexane	0.945	0.621	0.959	0.901	0.842	0.852	0.853	14.44
48)		Dibromomethane	0.369	0.354	0.390	0.392	0.393	0.380	0.380	4.10
49)	C	1,2-Dichloropropane	0.492	0.493	0.582	0.567	0.566	0.556	0.542	7.31
50)		Bromodichloromethan	0.884	0.920	1.057	1.048	1.025	1.011	0.991	7.24
51)		Methyl methacrylate	0.443	0.492	0.527	0.533	0.514	0.509	0.503	6.53
52)		2-Chloroethyl vinyl	0.320	0.346	0.379	0.375	0.367	0.361	0.358	6.20
53)		cis-1,3-Dichloropro	0.869	0.857	1.053	1.052	1.027	1.024	0.980	9.34
54)	I	Chlorobenzene-d5	----------			ISTD	----------			
55)	S	Toluene-d8	1.044	1.024	1.022	1.008	1.027	1.011	1.022	1.26
56)	C	Toluene	1.851	1.566	2.024	1.915	1.935	1.958	1.875	8.60
57)		2-Nitropropane	0.133	0.148	0.167	0.160	0.161	0.159	0.155	8.02
58)		4-Methyl-2-pentanon	0.451	0.447	0.471	0.435	0.431	0.431	0.444	3.46
59)		trans-1,3-Dichlorop	0.746	0.789	0.871	0.846	0.838	0.841	0.822	5.57
60)		Tetrachloroethene	0.558	0.444	0.632	0.620	0.632	0.655	0.590	13.36
61)		Ethyl methacrylate	0.548	0.576	0.634	0.638	0.639	0.644	0.613	6.65
62)		1,1,2-Trichloroetha	0.358	0.326	0.369	0.354	0.358	0.361	0.354	4.15
63)		Dibromochloromethan	0.473	0.455	0.535	0.530	0.543	0.542	0.513	7.51
64)		1,3-Dichloropropane	0.780	0.747	0.814	0.793	0.785	0.782	0.784	2.79
65)		1,2-Dibromoethane	0.414	0.421	0.449	0.438	0.437	0.453	0.435	3.54
66)		2-hexanone	0.305	0.318	0.326	0.312	0.307	0.309	0.313	2.52
67)		1-Chlorohexane	0.551	0.458	0.680	0.644	0.639	0.655	0.605	13.89
68)	C	Ethylbenzene	2.441	2.022	2.605	2.478	2.428	2.438	2.402	8.21
69)	P	Chlorobenzene	1.214	1.025	1.255	1.235	1.237	1.232	1.200	7.22
70)		1,1,1,2-Tetrachloro	0.454	0.446	0.539	0.526	0.529	0.534	0.505	8.42
71)		m,p-Xylene	1.864	1.608	2.070	1.979	1.940	1.936	1.900	8.31
72)		o-Xylene	1.732	1.689	2.175	2.126	2.094	2.096	1.985	10.85
73)		Styrene	1.028	1.074	1.416	1.389	1.386	1.443	1.289	14.44
74)	P	Bromoform	0.358	0.333	0.400	0.395	0.403	0.407	0.383	7.93
75)		Isopropylbenzene	1.946	1.572	2.147	2.101	2.078	2.082	1.988	10.79
76)	I	1,4-Dichlorobenzene-d	----------			ISTD	----------			
77)	S	4-Bromofluorobenzen	1.043	1.021	0.995	0.984	0.966	0.990	1.000	2.76
78)		cis-1,4-Dichloro-2-	0.234	0.166	0.228	0.224	0.246	0.252	0.225	13.62
79)		n-Propylbenzene	4.224	3.114	4.108	3.957	3.853	3.913	3.862	10.12
80)		Bromobenzene	0.831	0.731	0.817	0.814	0.796	0.798	0.798	4.42
81)	P	1,1,2,2-Tetrachloro	0.855	0.787	0.795	0.772	0.760	0.798	0.795	4.14
82)		1,3,5-Trimethylbenz	2.754	2.283	2.938	2.870	2.838	2.886	2.762	8.78
83)		2-Chlorotoluene	2.800	2.260	2.729	2.619	2.589	2.641	2.606	7.17
84)		trans-1,4-Dichloro-	0.307	0.153	0.197	0.201	0.215	0.221	0.216	23.58
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9986								
		Response Ratio = 0.00000 + 0.21650 *A								

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Initial Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: VF1093-ICC1093
Lab FileID: F039719.D

85)	1,2,3-Trichloroprop	0.284	0.252	0.269	0.253	0.248	0.256	0.260	5.24	
86)	Cyclohexanone	0.041	0.020	0.022	0.022	0.023	0.023	0.025	31.43	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 0.02282 *A									
87)	4-Chlorotoluene	2.666	2.248	2.809	2.728	2.655	2.670	2.629	7.44	
88)	tert-Butylbenzene	2.056	1.491	2.032	1.886	1.890	1.870	1.871	10.82	
89)	1,2,4-Trimethylbenz	3.095	2.501	3.125	3.041	2.989	3.010	2.960	7.80	
90)	Pentachloroethane	0.479	0.375	0.461	0.433	0.415	0.380	0.424	9.92	
91)	sec-Butylbenzene	3.794	2.588	3.503	3.364	3.299	3.355	3.317	12.04	
92)	4-Isopropyltoluene	3.192	2.180	2.981	2.911	2.840	2.887	2.832	12.10	
93)	1,3-Dichlorobenzene	1.553	1.251	1.539	1.486	1.480	1.515	1.471	7.58	
94)	1,4-Dichlorobenzene	1.681	1.357	1.560	1.540	1.510	1.543	1.532	6.80	
95)	n-Butylbenzene	2.132	1.172	1.777	1.739	1.686	1.733	1.707	18.04	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9993									
	Response Ratio = 0.00000 + 1.72018 *A									
96)	Benzyl Chloride	0.261	0.265	0.302	0.294	0.289	0.297	0.285	6.18	
97)	1,2-Dichlorobenzene	1.654	1.317	1.579	1.484	1.475	1.513	1.504	7.54	
98)	1,2-Dibromo-3-Chlor	0.187	0.236	0.233	0.209	0.218	0.223	0.218	8.22	
99)	Hexachlorobutadiene	1.677	0.483	0.620	0.585	0.573	0.573	0.752	60.55	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9994									
	Response Ratio = 0.00000 + 0.57547 *A									
100)	1,2,4-Trichlorobenz	1.802	1.056	1.267	1.234	1.244	1.257	1.310	19.35	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 1.25067 *A									
101)	Naphthalene	3.929	2.063	2.365	2.293	2.344	2.404	2.566	26.43	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9994									
	Response Ratio = 0.00000 + 2.37463 *A									
102)	1,2,3-Trichlorobenz	2.200	0.991	1.153	1.087	1.110	1.121	1.277	35.68	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 1.11547 *A									
103) I	Tert Butyl Alcohol-d1 ----------ISTD----------									
104)	Ethanol	0.457	0.325	0.334	0.297	0.310	0.305	0.338	17.74	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9993									
	Response Ratio = 0.00000 + 0.30623 *A									
105)	Acrolein	1.112	1.316	1.342	1.369	1.373	1.374	1.314	7.72	
106)	Tert butyl alcohol	1.362	1.333	1.372	1.251	1.278	1.294	1.315	3.68	
107)	Isobutyl alcohol	0.413	0.348	0.458	0.446	0.455	0.446	0.428	9.82	
108)	Tert Amyl Alcohol	1.023	0.945	0.979	0.955	1.004	1.008	0.986	3.15	
109)	1,4-Dioxane	0.171	0.070	0.085	0.088	0.092	0.096	0.100	35.71	
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9985									
	Response Ratio = 0.00000 + 0.09364 *A									

(#) = Out of Range

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Method Blank Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1093-MB	F039725.D	1	12/23/09	LD	n/a	n/a	VF1093

The QC reported here applies to the following samples: Method: SW846 8260B

F70116-1, F70116-2, F70116-3

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	

Method Blank Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1093-MB	F039725.D	1	12/23/09	LD	n/a	n/a	VF1093

The QC reported here applies to the following samples: Method: SW846 8260B

F70116-1, F70116-2, F70116-3

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Instrument Performance Check (DFTPP)

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SR1021-DFTPP	Injection Date:	12/22/09
Lab File ID:	R20900.D	Injection Time:	18:18
Instrument ID:	GCMSR		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	84807	38.0		Pass
68	Less than 2.0% of mass 69	263	0.12	(0.32) [a]	Pass
69	Mass 69 relative abundance	81192	36.4		Pass
70	Less than 2.0% of mass 69	438	0.2	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	100290	45.0		Pass
197	Less than 1.0% of mass 198	581	0.26		Pass
198	Base peak, 100% relative abundance	223082	100.0		Pass
199	5.0 - 9.0% of mass 198	15410	6.9		Pass
275	10.0 - 30.0% of mass 198	51624	23.1		Pass
365	1.0 - 100.0% of mass 198	5200	2.3		Pass
441	Present, but less than mass 443	28777	12.9	(75.9) [b]	Pass
442	40.0 - 100.0% of mass 198	191994	86.1		Pass
443	17.0 - 23.0% of mass 442	37913	17.0	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SR1021-IC1021	R20901.D	12/22/09	18:34	00:16	Initial cal 1
SR1021-IC1021	R20902.D	12/22/09	19:01	00:43	Initial cal 2
SR1021-IC1021	R20903.D	12/22/09	19:28	01:10	Initial cal 3
SR1021-ICC1021	R20904.D	12/22/09	19:55	01:37	Initial cal 4
SR1021-IC1021	R20905.D	12/22/09	20:22	02:04	Initial cal 5
SR1021-IC1021	R20906.D	12/22/09	20:49	02:31	Initial cal 6
SR1021-IC1021	R20907.D	12/22/09	21:16	02:58	Initial cal 7
SR1021-ICV1021	R20908.D	12/22/09	21:43	03:25	Initial cal verification 5

Initial Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SR1021-ICC1021
Lab FileID: R20904.D

Response Factor Report MSBNA3

Method : C:\msdchem\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Dec 23 11:31:56 2009
Response via : Initial Calibration

Calibration Files
L1 =R20901.D L2 =R20902.D L3 =R20903.D L4 =R20904.D
L5 =R20905.D L6 =R20906.D L7 =R20907.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.282	0.269	0.310	0.332	0.332	0.336	0.345	0.315	9.26
3)P N-nitroso-di-n-pr		0.108	0.125	0.117	0.120	0.120	0.121	0.119	5.11
4) Naphthalene	1.161	1.089	1.175	1.111	1.096	0.988	1.058	1.097	5.75
5) 2-Methylnaphthale	0.723	0.676	0.766	0.708	0.722	0.714	0.726	0.719	3.71
6) 1-Methylnaphthale	0.662	0.623	0.704	0.634	0.651	0.652	0.660	0.655	3.92
7) I Acenaphthene-d10	----------ISTD----------								
8)P Hexachlorocyclope		0.132	0.237	0.354	0.386	0.409	0.420	0.323	35.46
9)S 2-Fluorobiphenyl	1.701	1.647	1.715	1.757	1.774	1.752	1.730	1.725	2.48
10) Acenaphthylene	2.028	1.969	2.278	2.305	2.344	2.243	2.329	2.214	6.84
11)C Acenaphthene	1.413	1.336	1.448	1.387	1.420	1.362	1.397	1.395	2.70
12)P 2,4-Dinitrophenol		0.021	0.048	0.105	0.140	0.202	0.246	0.127	68.57
13)P 4-Nitrophenol		0.111	0.198	0.231	0.231	0.247	0.309	0.221	29.49
14) Fluorene	1.441	1.324	1.563	1.474	1.468	1.420	1.525	1.459	5.27
15) I Phenanthrene-d10	----------ISTD----------								
16) Phenanthrene	1.470	1.393	1.482	1.438	1.446	1.408	1.425	1.437	2.22
17) Anthracene	1.267	1.231	1.429	1.436	1.459	1.426	1.453	1.386	6.84
18)C Fluoranthene	1.192	1.177	1.334	1.406	1.293	1.298	1.411	1.302	7.12
19) I Chrysene-d12	----------ISTD----------								
20) Pyrene	2.592	2.169	2.943	2.272	2.572	2.410	2.234	2.456	10.99
21)S Terphenyl-d14	1.041	0.887	1.161	0.966	1.056	1.075	0.979	1.024	8.63
22) Benzo[a]anthracen	1.189	1.037	1.128	1.283	1.249	1.404	1.437	1.246	11.51
23) Chrysene	1.464	1.344	1.496	1.459	1.509	1.551	1.570	1.485	5.02
24) I Perylene-d12	----------ISTD----------								
25) Benzo[b]fluoranth	0.967	0.885	1.130	1.278	1.356	1.617	1.614	1.264	22.96
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 1.23816 *A + 0.32142 *A^2									
26) Benzo[k]fluoranth	1.177	1.041	1.303	1.500	1.663	1.935	1.868	1.498	22.89
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976									
Response Ratio = 0.00000 + 1.56535 *A + 0.27689 *A^2									
27)C Benzo[a]pyrene	0.660	0.646	0.764	0.946	1.057	1.276	1.350	0.957	29.82
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.85822 *A + 0.40040 *A^2									
28) Indeno[1,2,3-cd]p	0.701	0.588	0.642	0.649	0.821	0.786	0.921	0.730	16.13
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9948									
Response Ratio = 0.00000 + 0.62505 *A + 0.21768 *A^2									
29) Dibenz[a,h]anthra	0.521	0.678	0.721	0.698	0.936	0.884	1.039	0.782	22.70
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9940									

7.7.5

7

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SR1021-ICC1021
Lab FileID: R20904.D

Response Ratio = 0.00000 + 0.69955 *A + 0.24980 *A^2

30) Benzo[g,h,i]peryl 0.784 0.874 0.961 0.933 1.153 1.031 1.222 0.994 15.48

(#) = Out of Range

SIM_PAH.M Wed Dec 23 11:37:37 2009

7.7.5

7

Instrument Performance Check (DFTPP)

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample:	SR1022-DFTPP	Injection Date:	12/22/09
Lab File ID:	R20909.D	Injection Time:	22:10
Instrument ID:	GCMSR		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	87665	34.3		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	85263	33.4		Pass
70	Less than 2.0% of mass 69	384	0.15	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	112469	44.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	255656	100.0		Pass
199	5.0 - 9.0% of mass 198	17418	6.8		Pass
275	10.0 - 30.0% of mass 198	60304	23.6		Pass
365	1.0 - 100.0% of mass 198	6716	2.6		Pass
441	Present, but less than mass 443	34904	13.7	(75.1) [b]	Pass
442	40.0 - 100.0% of mass 198	240200	94.0		Pass
443	17.0 - 23.0% of mass 442	46474	18.2	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SR1022-CC1021	R20910.D	12/22/09	22:27	00:17	Continuing cal 4
OP31359-MB	R20911.D	12/22/09	22:53	00:43	Method Blank
ZZZZZZ	R20912.D	12/22/09	23:21	01:11	(unrelated sample)
OP31283-MB	R20913.D	12/22/09	23:47	01:37	Method Blank
OP31283-MS	R20914.D	12/23/09	00:14	02:04	Matrix Spike
OP31283-MSD	R20915.D	12/23/09	00:41	02:31	Matrix Spike Duplicate
ZZZZZZ	R20917.D	12/23/09	01:35	03:25	(unrelated sample)
ZZZZZZ	R20918.D	12/23/09	02:02	03:52	(unrelated sample)
ZZZZZZ	R20919.D	12/23/09	02:28	04:18	(unrelated sample)
ZZZZZZ	R20920.D	12/23/09	02:55	04:45	(unrelated sample)
ZZZZZZ	R20921.D	12/23/09	03:22	05:12	(unrelated sample)
ZZZZZZ	R20922.D	12/23/09	03:49	05:39	(unrelated sample)
ZZZZZZ	R20923.D	12/23/09	04:16	06:06	(unrelated sample)
ZZZZZZ	R20924.D	12/23/09	04:43	06:33	(unrelated sample)
ZZZZZZ	R20925.D	12/23/09	05:10	07:00	(unrelated sample)
ZZZZZZ	R20926.D	12/23/09	05:37	07:27	(unrelated sample)
ZZZZZZ	R20927.D	12/23/09	06:04	07:54	(unrelated sample)
F70116-1	R20928.D	12/23/09	06:31	08:21	KWTFS-SB166-GW-0307
F70116-2	R20929.D	12/23/09	06:57	08:47	KWTFS-SB167-GW-0307

Continuing Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: SR1022-CC1021
Lab FileID: R20910.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\122209\R20910.D Vial: 5
Acq On : 22 Dec 2009 10:27 pm Operator: rayb
Sample : cc1021-4 Inst : MSBNA3
Misc : op31283,sr1022,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Dec 23 11:43:22 2009
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	58	0.00	5.52
2	S	Nitrobenzene-d5	0.315	0.332	-5.4	58	0.00	4.89
3	P	N-nitroso-di-n-propylamin	0.119	0.116	2.5	58	0.00	4.77
4		Naphthalene	1.097	1.135	-3.5	60	0.00	5.54
5		2-Methylnaphthalene	0.719	0.732	-1.8	60	0.00	6.27
6		1-Methylnaphthalene	0.655	0.663	-1.2	61	0.00	6.38
7	I	Acenaphthene-d10	1.000	1.000	0.0	58	0.00	7.64
8	P	Hexachlorocyclopentadiene	0.323	0.329	-1.9	54	0.00	6.46
9	S	2-Fluorobiphenyl	1.725	1.804	-4.6	60	0.00	6.74
10		Acenaphthylene	2.214	2.294	-3.6	58	0.00	7.43
11	C	Acenaphthene	1.395	1.410	-1.1	59	0.00	7.68
12	P	2,4-Dinitrophenol	0.127	0.092	27.6#	51	0.00	7.81
13	P	4-Nitrophenol	0.221	0.217	1.8	54	0.00	8.00
14		Fluorene	1.459	1.428	2.1	56	0.00	8.49
15	I	Phenanthrene-d10	1.000	1.000	0.0	54	0.00	10.06
16		Phenanthrene	1.437	1.462	-1.7	55	0.00	10.10
17		Anthracene	1.386	1.443	-4.1	55	0.00	10.19
18	C	Fluoranthene	1.302	1.461	-12.2	57	0.00	12.24
19	I	Chrysene-d12	1.000	1.000	0.0	60	0.00	14.93
20		Pyrene	2.456	2.183	11.1	57	0.00	12.64
21	S	Terphenyl-d14	1.024	0.910	11.1	56	0.00	13.08
22		Benzo[a]anthracene	1.246	1.228	1.4	57	0.00	14.92
23		Chrysene	1.485	1.464	1.4	60	0.00	14.98
24	I	Perylene-d12	1.000	1.000	0.0	59	0.00	17.42
		----------	Amount	Calc.	%Drift	----------		
25		Benzo[b]fluoranthene	1.000	0.949	5.1	58	0.00	16.82
26		Benzo[k]fluoranthene	1.000	0.900	10.0	58	0.00	16.86
27	C	Benzo[a]pyrene	1.000	0.968	3.2	58	0.00	17.33
28		Indeno[1,2,3-cd]pyrene	1.000	0.979	2.1	60	0.00	19.01
29		Dibenz[a,h]anthracene	1.000	1.046	-4.6	68	0.00	19.05
		----------	AvgRF	CCRF	%Dev	----------		
30		Benzo[g,h,i]perylene	0.994	1.033	-3.9	65	0.00	19.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0

7.7.7

7

Continuing Calibration Summary

Job Number:	F70116	Sample:	SR1022-CC1021
Account:	TETRPAPT Tetra Tech NUS	Lab FileID:	R20910.D
Project:	NAS Key West, Key West, FL		

R20904.D SIM_PAH.M Wed Dec 23 11:44:18 2009

Method Blank Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31283-MB	R20913.D	1	12/22/09	RB	12/17/09	OP31283	SR1022

The QC reported here applies to the following samples: Method: SW846 8270C BY SIM

F70116-1, F70116-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	71%	42-108%
321-60-8	2-Fluorobiphenyl	69%	40-106%
1718-51-0	Terphenyl-d14	98%	39-121%

ACCUTEST LABORATORIES SE

DATE:	09.30.09
COLUMN TYPE:	02-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FLPRO.RM
ACQ. METHOD:	L
PROC. METHOD:	L
CALIB. DATE:	09.30.09
RUN BATCH:	GIJ 2061

ANALYST:	SL
MECL2 LOT #:	H3150 7
SIGNAL 1 SURR. AREA/CONC:	
SIGNAL 2 SURR. AREA/CONC:	—

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 59444	1	ccb	FLPRO				BDL
IJ 45	2	ic2061-255			75:1000		✓ 53324
IJ 46	3	-340			10		✓
IJ 47	4	-680			5		✓
IJ 48	5	icc2061-1360			2.5		✓
IJ 49	6	ic2061-2040			3.5		✓
IJ 50	7	-2720			4.5		✓
IJ 51	8	-3400			1		✓ L
IJ 52	9	icv2061-1360			80:500		pass 4603 D
IJ 53	1	ccb					BDL
IJ							Signal recorded from
IJ							wrong detector
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ 59979			L				

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Initial Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2061-ICC2061
Lab FileID: IJ59948.D

Response Factor Report FID 1

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Thu Oct 01 15:32:24 2009
Response via : Initial Calibration

Calibration Files
255 =IJ59945.D 340 =IJ59946.D 680 =IJ59947.D 1360=IJ59948.D
2040=IJ59949.D 2720=IJ59950.D 3400=IJ59951.D

Compound	255	340	680	1360	2040	2720	3400	Avg	%RSD
1)S O-TERPHENYL	3.043	2.902	2.894	2.835	2.980	2.710	3.087	2.921 E4	4.40
2)H TPH (C8-C40)	2.949	2.866	2.768	2.671	2.804	2.546	2.887	2.784 E4	4.96

(#) = Out of Range

FL_PRO_R.M Thu Oct 01 15:34:00 2009

9.6.1

9

ACCUTEST LABORATORIES SE

GC FID3-IJ ANALYSIS LOG

DATE:	12-15-2009
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

METHODS:	FL-PRO
ACQ. METHOD:	↓
PROC. METHOD:	↓
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2112

ANALYST:	EDOE
MECL2 LOT #:	H3150
SIGNAL 1 SURR. AREA/CONC:	1181922/40
SIGNAL 2 SURR. AREA/CONC:	— 1 —

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61819	1	CCB	FL-PRO	—	—		ND
IJ 20	2	CC2061-1360	↓	S3376	2:5		PASS
IJ 21	3	↓ -340		↓	10x		PASS
IJ 22	4	OP31219-BS		OP31219	1x	PDB	✓
IJ 23	5	↓ -MB		↓	1x		ND
IJ 24	6	F70030-1,RR			1x	PDB	✓
IJ 25	7	↓ -2,10			10x	PDB	✓
IJ 26	8	F70035-1,RR			1x	↓	✓
IJ 27	9	F69964-1,4			4x	PDB	✓
IJ 28	10	↓ -2,RR			1x	↓	✓
IJ 29	11	↓ -3,RR			1x	↓	✓
IJ 30	12	F69898-4,50			50x	PDB	✓
IJ 31	13	↓ -5,2		↓	2x	↓	✓
IJ 32	14	CC2061-1360		S3376	2:5		PASS
IJ 33	15	CCB		—	—		ND
IJ 34	16	OP31219-MS,2		OP31219	2x	PDB	✓
IJ 35	17	↓ -MSD,2		↓	2x	↓	✓
IJ 36	18	F69968-6,200			200x	PDB	✓
IJ 37	19	F69969-5,RR			1x	↓	✓
IJ 38	20	↓ -6,RR	↓	↓	1x	PDB	✓

% Solids

Manual Integration Rationale SOP QA029: MP Missed Peak OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid1_ij_log.xls NF rev. 08/09

(1-~~11~~) (1)

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	12-15-2009
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	I
PROC. METHOD:	F
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2112

ANALYST:	ENC
MECL2 LOT #:	H315 07
SIGNAL 1 SURR. AREA/CONC:	118122/100
SIGNAL 2 SURR. AREA/CONC:	—/—

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61839	21	OP 31276 - BS	FL-PRO	OP31276	1X	PDB	✓
IJ 40	22	" -MB	"	"	"		ND
IJ 41	23	F70024 -1				PDB	✓
IJ 42	24	F70032 -1				"	✓ IRR 4X (DNR)
IJ 43	25	F70033 -1				PDB	✓ IRR for C.O. (DNR)
IJ 44	26	CC70G1 -1360		S3376	2.5		PASS
IJ 45	27	CCB		—	—		ND
IJ 46	28	F70033 - 5, 10		OP31276	10X		ND IRR 1X (DNR)
IJ 47	29	" -4		"	1X		✓
IJ 48	30	F70023 -1				PDB	✓
IJ 49	31	" -2				"	✓
IJ 50	32	" -3				"	✓
IJ 51	33	" -4					ND
IJ 52	34	F70015 -1				PDB	✓
IJ 53	35	OP31276 - MS				"	✓
IJ 54	36	" -MSD				"	✓
IJ 55	37	F70015 -2				PDB	✓
IJ 56	14	CC2061 - 1360		S3376	2.5		PASS
IJ 57	15	CCB 1141/09		—	—		ND
IJ 61959	38	F70025 -3		OP31276	1X		ND

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid1_ij_log.xls NF rev. 08/09

(2-4) (2)

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

GC FID3-IJ ANALYSIS LOG

DATE: 12-15-09	METHODS: FL-PRO	ANALYST: GNOC	
COLUMN TYPE: DB-5	ACQ. METHOD: T	MECL2 LOT #: H31507	
AMOUNT INJECTED: 1 ul	PROC. METHOD: ↓	SIGNAL 1 SURR. AREA/CONC: 1181922/40	
INSTRUMENT: FID1-IJ	CALIB. DATE: 09-30-09	SIGNAL 2 SURR. AREA/CONC: —	
	RUN BATCH: GIJ 2112		

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61859	39	F70025 -4	FL-PRO	OP31226	1X		ND
IJ 60	40	-5					ND
IJ 61	41	-6					ND
IJ 62	42	-7					ND
IJ 63	43	-8					ND
IJ 64	44	OP31240 - BS		OP31240	1X	PDB	✓
IJ 65	45	-MB					ND
IJ 66	46	F70096 -1					ND
IJ 67	47	F70099 -1					✓
IJ 68	28	CC2061 - 1360		S3376	2:5		PASS 12/17/09
IJ 69	27	CCB		—	—		~~ND~~ ND
IJ 70	48	F70099 -2		OP31240	1X		ND
IJ 71	49	-3				PDB	✓
IJ 72	50	-4					ND / RR (Bad Injection) DNR
IJ 73	51	-5					ND
IJ 74	52	-6				PDB	✓
IJ 75	53	-7				PDB	✓
IJ 76	54	-8				↓	✓
IJ 77	55	F70116 -1					ND
IJ 61879	56	-2					ND

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid1_ij_log.xls NF rev. 08/09

(3-V) (3)

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	12-15-09
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FL-PRO
ACQ. METHOD:	"
PROC. METHOD:	"
CALIB. DATE:	04-30-09
RUN BATCH:	GIJ 2112

ANALYST:	ENOC
MECL2 LOT #:	431507
SIGNAL 1 SURR. AREA/CONC:	11819 22/40
SIGNAL 2 SURR. AREA/CONC:	—/—

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61879	57	F70100 - 1	FL-PRO	OP31240	1X		ND
IJ 80	58	CC20061 - 1360		S3374	2.5		PASS
IJ 81	3	CC2061 - 340		"	10X		PASS
IJ 82	~~59~~	CCB		OP31240	1X		ND
IJ 83	60	F70100 - 2		"	"		ND
IJ 84	61	" -3		"	"	PDB	✓
IJ 85	62	" -4		"	"	PDB	ND
IJ 86	63	OP31240 - MS		"	"	"	✓
IJ 87	64	" -MSD		"	"	"	✓
IJ 88	65	F70028 - 1, PR		OP31219	1X	PDB	✓
IJ 89	66	F64964 - 4, 10		"	10X	"	✓
IJ 90	67	F70032 - 1, 4		OP31224	1.8	PDB	✓
IJ 91	69	F70033 - 4, CO		"	1X	"	✓
IJ 92	69	" -5, PR		"	1X	"	✓
IJ 93	70	CC20061 - 1360		S3376	2.5		PASS
IJ 94	71	CCB		—	—		ND
IJ 95	72	F70099 - 4, PR		OP31240	1X	PDB	✓
IJ 96	73	OP31263 - LBS		OP31263	1X	F	✓
IJ 97	74	" -LB		"	"		ND
IJ 61894	75	F64437 - 1R		"	"	PDB	ND

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

(4-5) (10)

Analyst's Signature: _____

ACCUTEST LABORATORIES SE

DATE:	12-15-09
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

GC FID3-IJ ANALYSIS LOG

METHODS:	FC-PRO
ACQ. METHOD:	
PROC. METHOD:	
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2112

ANALYST:	ENOG
MECL2 LOT #:	1131502
SIGNAL 1 SURR. AREA/CONC:	1181922/40
SIGNAL 2 SURR. AREA/CONC:	—

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61899	76	OP31263 -MS	FC-PRO	OP31263	1X	PDB	✓
IJ 61900	77	-MSD			1X		✓
IJ 61901	78	OP31237 -BS		OP31237	1X		✓
IJ 02	79	-MB			—		ND
IJ 03	80	F70058 -1				PDB	✓
IJ 04	81	-2					ND
IJ 05	82	CC2061-1360		S3376	2.5		PASS
IJ 06	83	CCB		—	—		ND
IJ 07	84	F70058 -3		OP31237	1X	PDB	✓
IJ 08	85	-4			1X	PDB	✓
IJ 09	86	F70060 -6 10			10X		ND/RR 1X (DNR)
IJ 10	87	F70065 -1 4			4X		ND/RR 1X
IJ 11	88	-2			1X	PDB	ND
IJ 12	89	-3			—		✓
IJ 13	90	-4					✓
IJ 14	91	-5				PDB	✓
IJ 15	92	-6					✓
IJ 16	93	-7					ND
IJ 17	94	CC2061-1360		S3376	2.5		PASS
IJ 61918	95	CCB		—	—		ND

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

(5-~~6~~) (5)

Analyst's Signature: [signature]

gcfid1_ij_log.xls NF rev. 08/09

ACCUTEST Laboratories F70116

ACCUTEST LABORATORIES SE

GC FID3-IJ ANALYSIS LOG

DATE:	12-15-09
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	1 ul
INSTRUMENT:	FID1-IJ

METHODS:	FL-PRO
ACQ. METHOD:	
PROC. METHOD:	
CALIB. DATE:	09-30-2009
RUN BATCH:	GIJ 2112

ANALYST:	ENOC
MECL2 LOT #:	H 31507
SIGNAL 1 SURR. AREA/CONC:	1181922/40
SIGNAL 2 SURR. AREA/CONC:	—

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
IJ 61919	96	F70065 -8	FL-PRO	OP31237	1X		ND
IJ 20	97	-9					ND
IJ 21	98	-10				PDB	✓
IJ 22	99	-11,10			10X		✓/RR 1X (DNR)
IJ 23	100	-12,4			4X		ND/RR 1X
IJ 24	1	-13			1X		ND
IJ 25	2	OP31237 -14S				PDB	✓
IJ 26	3	-14SD					✓
IJ 27	4	F70065 -14,4			4X		✓/RR 1X (DNR)
IJ 28	5	-15			1X	PDB	✓
IJ 61929	94	ECC2061-1360		S3376	2:5		PAS
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							
IJ							

(FEA 12-17-2009)

Manual Integration Rationale SOP QA029: MP Missed Peak OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid1_ij_log.xls NF rev. 08/09

(6-6) (6)

Analyst's Signature: [signature]

#2

LIQUID SAMPLE PREP REPORT

Date: 12/14/09 Analytical Method: FL PRO Batch#: OP 31240

Prep Method: (3510C) 3535A 3580A or Method Analyst: RO, ACH, CP

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 31240 MB	X	1000	6	<2	0.5ml		1.0mL	
OP 31240 BS	X	1000	6	<2	↓	0.5ml	↓	
F70096 -1	14	1040	<2	N/A	↓	↓	↓	
F70099 -1	6	1040	↓	↓	↓	↓	↓	
-2	6	1040	↓	↓	↓	↓	↓	
-3	6	1040	↓	↓	↓	↓	↓	
-4	6	1030	↓	↓	↓	↓	↓	
-5	6	1020	↓	↓	↓	↓	↓	
-6	6	1020	↓	↓	↓	↓	↓	
-7	6	1050	↓	↓	↓	↓	↓	
-8	6	1040	↓	↓	↓	↓	↓	
F70116 -1	7	1020	6	<2	↓	↓	↓	
-2	8	1040	6	<2	↓	↓	↓	
F70100 -1	13	1050	<2	N/A	↓	↓	↓	
-2	13	1050	↓	↓	↓	↓	↓	
-3	12	1040	↓	↓	↓	↓	↓	
-4	6	1000	↓	↓	↓	↓	↓	MS/MSD
				RS 12.14.09				
F70100-4 MS	5	520	<2	N/A	0.5ml	0.5ml	1.0mL	
-4 MSD	5	520	<2	↓	↓	↓	↓	
DUP								RS 12.14.09

Comments:

Surrogate ID: E3179 Conc: 100 ppm Exp. Date: 06/08/10

Injected By: ACH Verified By: RO

Bath Temp.: 40°C

Spike ID: E3170 Conc: 100 ppm Exp. Date: 05/24/10

Injected By: ACH Verified By: RO

Bath Temp2.: —

CH2CL2 Lot # H31507 Hexane Lot #: — Na2SO4 Lot#: —

Acetonitrile Lot #: — Methanol Lot #: — Acetone Lot#: —

Syringe Filter Lot#: — Reagent # 9056 H_2SO_4 Reagent # 070552 silica gel

Relinquished By: Date: 12.14.09

Accepted By: Date: 12/14/09

EXTWATER.XLS NF rev. 02/07

Accutest Laboratories SE

10.7.1 10

Continuing Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2112-CC2061
Lab FileID: IJ61856.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1215PRO\IJ61856.D Vial: 14
Acq On : 16 Dec 2009 1:51 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31226,gij2112,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	43.682	-9.2	113	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1499.740	-10.3	115	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Wed Dec 16 13:43:56 2009

9.6.3

9

Continuing Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2112-CC2061
Lab FileID: IJ61868.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1215PRO\IJ61868.D Vial: 26
Acq On : 16 Dec 2009 6:17 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31240,gij2112,1040,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	40.201	-0.5	104	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1374.347	-1.1	105	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Wed Dec 16 13:43:56 2009

Continuing Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2112-CC2061
Lab FileID: IJ61880.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1215PRO\IJ61880.D Vial: 58
Acq On : 16 Dec 2009 11:03 am Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31240,gij2112,1050,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	38.250	4.4	99	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1302.466	4.2	100	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Dec 17 14:44:58 2009

9.6.5

Continuing Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2112-CC2061
Lab FileID: IJ61881.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1215PRO\IJ61881.D Vial: 3
Acq On : 16 Dec 2009 11:25 am Operator: enoca
Sample : cc2061-340 Inst : FID 1
Misc : op31240,gij2112,1050,,,1,1,water Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	10.000	10.069	-0.7	101	0.00	5.21- 5.25
2 H	TPH (C8-C40)	340.000	360.778	-6.1	103	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59946.D FL_PRO_R.M Thu Dec 17 14:45:40 2009

9.6.6

6

Continuing Calibration Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample: GIJ2112-CC2061
Lab FileID: IJ61893.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\1215PRO\IJ61893.D Vial: 70
Acq On : 16 Dec 2009 3:52 pm Operator: enoca
Sample : cc2061-1360 Inst : FID 1
Misc : op31240,gij2112,1050,,,1,1,soil Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\FL_PRO_R.M (Chemstation Integrator)
Title : TPH by FL_PRO
Last Update : Mon Nov 30 10:14:37 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	40.000	39.276	1.8	101	0.00	5.21- 5.25
2 H	TPH (C8-C40)	1360.000	1350.440	0.7	104	0.00	1.86- 9.88

(#) = Out of Range SPCC's out = 0 CCC's out = 0
IJ59948.D FL_PRO_R.M Thu Dec 17 14:44:59 2009

9.6.7

9

Raw Data: IJ61865.D

Method Blank Summary

Job Number: F70116
Account: TETRPAPT Tetra Tech NUS
Project: NAS Key West, Key West, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31240-MB	IJ61865.D	1	12/16/09	FEA	12/14/09	OP31240	GIJ2112

The QC reported here applies to the following samples: Method: FLORIDA-PRO

F70116-1, F70116-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	97%	38-122%

9.1.1

9