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SOIL INVESTIGATION REPORT SITE 1343 NS MAYPORT FL

6/4/2012

TETRA TECH

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Document Tracking Number 11JAX0200

June 4, 2012

Project Number 112G02801

Naval Facilities Engineering Command, Southeast
ATTN: Mr. Brian Syme (OPC 6)
Remedial Project Manager
135 Ajax Street North, Building 903
Naval Air Station Jacksonville
Jacksonville, FL 32212-0030

Reference: CLEAN Contract Number N62470-08-D-1001
Contract Tack Order Number JM33

Subject: Soil Investigation Report, Site 1343
Naval Station Mayport, Jacksonville Florida

Dear Mr. Syme:

Tetra Tech is pleased to submit this Soil Investigation Report for Contract Task Order JM33. This report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast for the Comprehensive Long-term Environmental Action Navy Contract Number N62470-08-D-1001. This letter report provides the results of the soil investigation activities performed to evaluate the extent and magnitude of soil impacts at Site 1343 and includes recommendations for a path forward based on the current data.

SITE LOCATION

Naval Station (NAVSTA) Mayport is located within the corporate limits of the city of Jacksonville, Duval County, Florida, approximately 12 miles to the northeast of downtown Jacksonville and adjacent to the town of Mayport. A Regional Area Map is provided as Figure 1. The Station complex is located on the northern end of a peninsula bound by the Atlantic Ocean to the east and the St. Johns River to the north. NAVSTA Mayport occupies the entire northern part of the peninsula except for the town of Mayport, which is located to the west between the Station and the St. Johns River.

SITE DESCRIPTION

Figure 2 presents the location of Site 1343. A 10,000-gallon underground storage tank (UST) that once contained fuel oil was closed in place in June 1995. The UST is located adjacent to Building 1343. A fenced security area to the northeast contains electrical transformers and an aboveground storage tank for fuel that replaced the former UST. The ground surface in the immediate area of the former UST is not covered and is relatively flat with poor surface water drainage. Surface water drainage outside of this area is toward drainage ditches to the southeast.

Tetra Tech, Inc.
8640 Philips Highway, Suite 16, Jacksonville, FL 32256
Tel 904.636.6125 Fax 904.636.6165 www.tetratech.com

INVESTIGATIONS HISTORY

UST Closure Report, G. B. Robbins, Inc., July 1995

In June 1995, the 10,000-gallon UST-1343 was closed in place. According to the July 1995 UST closure report prepared by G. B. Robbins, Inc., an area of stained soil was reported on the northwestern end of the UST at ground surface. This was the location of the UST fill port and contaminated soils were not removed. Soil and groundwater samples were not obtained for laboratory analyses during this event.

Contamination Assessment Report (CAR) and CAR Addendum (CARA), Bhate, February 2, 1998, and June 25, 1999.

As reported in the associated CAR and CARA, laboratory analytical results for soil and groundwater samples showed contaminated soils at the northwestern end of the closed UST. Additionally, free product was measured in monitoring well MW-01 located adjacent to the former UST fill port. Based on the CAR and CARA, the Florida Department of Environmental Protection (FDEP) had questions and requested the collection of additional soil and groundwater samples for analyses.

Site Assessment Report Addendum (SARA), Ellis Environmental Group, LLC, February 2002

At the request of the FDEP, additional soil samples were collected, and groundwater samples were collected from the existing monitoring wells and three newly installed monitoring wells. As reported in the associated SARA, elevated organic vapor analyzer (OVA) soil screening samples were identified at and near the former sump. Soil samples were collected northeast and east of the sump, but not close enough to document the release. Soil laboratory results exceed Soil Cleanup Target Levels (SCTLs). Groundwater samples showed concentrations of polynuclear aromatic hydrocarbons (PAHs) and total recoverable petroleum hydrocarbons (TRPH), and measurable free product was detected in monitoring well MPT-1343-MW-1, which is located adjacent to the former UST fill port.

Groundwater Monitoring and Free Product Removal, 2003 to Present

Since the last SARA conducted in 2002, field events at Site 1343 have focused on free product removal/gauging and groundwater collection for laboratory analyses. During this time, free product has been removed using a vacuum truck, automated skimming pump, and petroleum sorbent socks. Typically, free product has been identified in monitoring well MPT 1343-MW-5, although it was observed in monitoring well MPT-1343-MW-1. The appearance and thickness of free product have declined significantly during this time period.

Currently, groundwater impacted by petroleum constituents has declined from exceeding Groundwater Cleanup Target Levels (GCTLs) to concentrations at or less than GCTLs. The concentrations of groundwater constituents parallel the free product downward trend. Tetra Tech prepared semiannual groundwater monitoring reports dated as recent as January 9, 2012, that document the decline in concentration and frequency for both free product and groundwater petroleum constituents.

TETRA TECH SOIL INVESTIGATION 2011 – ASSESSMENT METHODS AND RESULTS

Following numerous groundwater sampling events, Tetra Tech was tasked with evaluating the extent and magnitude of soil impacts at Site 1343 and developing a path forward based on the current data. The discussions below include, but are not limited to, field and laboratory analyses of soils samples collected in the area of the closed UST, verification soil sampling activities, and a proposed corrective action approach.

SOIL INVESTIGATION ACTIVITIES – HYDROCARBON VAPOR ANALYSES

On February 2, 3, and 4, 2011, Tetra Tech personnel advanced 15 soil borings (SB01 through SB15) in the area of the former UST to evaluate the extent of soil impacts at this site. Borings were advanced using a stainless steel, 3-inch inside diameter hand auger to the approximate top of the static water table, determined to be approximately 4.25 feet below land surface (bls) during the sampling event. Samples were collected from each location at approximate depths of 0 to 0.5 foot bls, 0.5 to 2.0 feet bls, 2.0 to 4.0 feet bls, and from 4.0 to 4.25 feet bls. The locations of soil borings SB01 through SB15 are shown on Figure 3. Field forms are included as Attachment 1.

Soil samples from each sampling interval were equally split and placed into two clean, 8-ounce glass jars. Each sample jar was filled to approximately ½ of its volume, covered with aluminum foil, and closed using an open threaded, metal ring. The sample jars were allowed to equilibrate within a temperature range of 20 to 32 degrees Celsius for approximately 5 minutes. Soil samples were screened for their total hydrocarbon content using an OVA equipped with a flame ionization detector (FID). The vapor head spaces were measured by piercing the aluminum foil with the OVA-FID probe and recording the highest sustained reading. When OVA-FID readings exceeding background were detected in the first jar, the second sample jar was measured using an in-line charcoal filter to differentiate between methane (a naturally occurring gas) and petroleum hydrocarbon vapors. The OVA-FID was calibrated daily, and calibration readings were recorded on daily log forms. Soil vapor analyses were performed in accordance with the headspace screening method described in Chapter 62-770.200(2), Florida Administrative Code (F.A.C.).

Soil samples collected for vapor screening at SB01, SB03, SB10, and SB12 exhibited OVA-FID results above 10 parts per million. The elevated detections are at or near the former sump at the northeastern end of the former closed-in-place UST. The soil vapor results are summarized in Table 1 and presented as Figures 4 and 5.

SOIL INVESTIGATION ACTIVITIES – LABORATORY ANALYSES

On February 16, 17, and 18, 2011, Tetra Tech personnel collected soil samples from 11 soil sampling locations (SS01 through SS11) for laboratory analyses to evaluate the extent of soil impacts in the area of former UST. Soil samples were collected near the soil boring locations that either exhibited elevated OVA-FID readings or were located in areas typical of impacts from USTs. Samples were collected using a stainless steel, 3-inch inside diameter hand auger to the approximate top of the static water table, determined to be approximately 4.5 feet bls during this sampling event. Samples were collected from each location at approximate depths of 0.5 foot bls, 2.0 feet bls, 4.0 feet bls, and 4.5 feet bls. The locations of all soil samples are shown on Figure 3.

Soil samples collected at each location were immediately placed into laboratory-supplied containers, which were then labeled and preserved on ice. Samples were transported to the contract laboratory for analyses of volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, total xylenes and methyl tert-butyl ether; PAHs; and TRPH in conformance with Florida Residual Petroleum Organic methodology with complete contract laboratory program-like data packages to allow for data validation. Several soil samples that exhibited elevated TRPH concentrations were also analyzed using the Massachusetts Department of Environmental Protection (MADEP) method. This method is designed to measure the collective concentrations of extractable petroleum hydrocarbons (EPHs) in the aliphatic and aromatic ranges. Extractable aliphatic hydrocarbons are quantitated within the C9 through C18 and C19 through C36 range. Extractable aromatic hydrocarbons are quantitated within the C11 through C22 range. This method includes a data adjustment step to subtract the concentration of target PAH analytes for the concentration of C11 through C22 aromatic hydrocarbons. The soil analytical results shown on the first line of the EPH MADEP section of Table 2 includes this adjustment. All soil sampling procedures

were conducted in accordance with FDEP Standard Operating Procure (SOP) DEP-SOP-001/01 FS 3000.

As stated previously, soil sampling equipment was decontaminated in accordance with FDEP SOP FC 1000 between sampling intervals since equipment was used at more than one sampling location. Excess soil cuttings were returned to the corresponding boreholes from which they were removed.

SOIL INVESTIGATION ANALYTICAL RESULTS

Soil samples that exhibited concentrations for the contaminants of concern (COCs) (PAHs and TRPH) above FDEP SCTLs are discussed below. All detected VOC concentrations were less than the FDEP SCTLs established in Chapter 62-770, F.A.C. The soil analytical results are summarized in Table 2. Soil analytical data is provided as Attachment 2.

SS02 – 2.0

Samples collected from SS02 at 2.0 feet bls (SS2-2.0) exhibited benzo(a)pyrene equivalent concentrations in excess of the FDEP SCTL for residential direct exposure. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

SS04 – 0.5

Samples collected from SS04 at 0.5 foot bls (SS4-0.5) exhibited benzo(a)pyrene equivalent concentrations in excess of the FDEP SCTL for residential and industrial direct exposure. Samples also exhibited TRPH concentrations in excess of the FDEP SCTL for residential exposure and leachability. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

SS06 – 2.0

Samples collected from SS06 at 2.0 feet bls (SS6-2.0) exhibited TRPH concentrations in excess of the FDEP SCTL for residential and industrial direct exposure and leachability. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

SS06 – 4.0

Samples collected from SS06 at 4.0 feet bls (SS6-4.0) exhibited benzo(a)pyrene and benzo(a)pyrene equivalent concentrations in excess of the FDEP SCTL for residential direct exposure as well as acenaphthene in excess of the FDEP SCTL for leachability to groundwater. Samples also exhibited concentrations for the aromatic range of EPH (C11-C22) in excess of the FDEP SCTL for leachability and aliphatic range (C9-C18) concentrations in excess of the FDEP SCTL for residential direct exposure. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

SS06 – 4.5

Samples collected from SS06 at 4.5 feet bls (SS6-4.5) exhibited benzo(a)pyrene equivalent concentrations in excess of the FDEP SCTL for residential direct exposure as well as TRPH in excess of the FDEP SCTL for residential and industrial direct exposure and leachability to groundwater. Samples also exhibited concentrations for the aromatic range of EPH (C11-C22) in excess of the FDEP SCTL for residential direct exposure and leachability and aliphatic range (C9-C18) concentrations in excess of the FDEP SCTL for residential direct exposure. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

SOIL VERIFICATION SAMPLING ACTIVITIES

On July 1, 2011, Tetra Tech personnel collected soil samples from 10 additional soil sampling locations (SS12 through SS21) for laboratory analyses to verify previous sampling results in the area of former UST. Soil samples were collected approximately near soil sample locations that exhibited either elevated hydrocarbon results from previous sampling events or where TRPH speciation was appropriate. A verification soil sample was also collected the approximate location of SS06. Samples were collected using a stainless steel, 3-inch inside diameter hand auger to the target depths, but no deeper than the approximate top of the static water table, determined to be approximately 4.5 feet bls during this sampling event. The locations of soil samples SS12 through SS21 are shown on Figure 5.

Soil samples collected at each location were immediately placed into laboratory-supplied containers, which were then labeled and preserved on ice. Samples were transported to the contract laboratory for analyses of VOCs and/or PAHs with complete contract laboratory program-like data packages to allow for data validation. A subset of samples was also analyzed by the MADEP method for TRPH speciation. All soil sampling procedures were conducted in accordance with FDEP SOP DEP-SOP-001/01 FS3000. All decontamination procedures were completed in accordance with FDEP SOP FC 1000. Excess soil cuttings were again returned to the corresponding boreholes from which they were removed.

SOIL VERIFICATION ANALYTICAL RESULTS

Soil samples which exhibited concentrations for the contaminants of concern (PAHs and TRPH) above FDEP SCTLs are discussed below. All detected VOC concentrations were below the FDEP SCTLs established in Chapter 62-770, F.A.C. The soil analytical results are summarized in Table 2.

SS20 – 4.0

Samples collected from SS20 at 4.0 feet bls (SS20-4.0) exhibited benzo(a)pyrene and benzo(a)pyrene equivalent concentrations in excess of the FDEP SCTL for residential direct exposure. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

SS21 – 4.5

Samples collected from SS21 at 4.5 feet bls (SS21-4.5) exhibited benzo(a)pyrene equivalent concentrations in excess of the FDEP SCTL for residential direct exposure. Samples also exhibited concentrations for the aromatic range of EPH (C11-C22) above the FDEP SCTL for leachability and aliphatic range (C9-C18) concentrations in excess of the FDEP SCTL for residential direct exposure. All other constituents were detected either less than the FDEP SCTLs or less than the laboratory's minimum detection limit.

CONCLUSIONS AND RECOMMENDATIONS

Tetra Tech has determined the current horizontal and vertical extent and magnitude of petroleum-impacted soils at this site. For the purposes of evaluating levels of effort, Tetra Tech has designated three smaller, separate areas that require remediation to address soil impacts. Area 1 is an area around soil sample location SS02, Area 2 is an area around SS04, and Area 3 is an area around SS06 and the apparent former pump sump. All three areas are adjacent to the former UST that was closed in place at this site.

Based on soil investigation and verification sampling events conducted during 2011, the following is recommended at Site 1343:

- Conduct limited soil source removal actions in the areas of soil samples SS02, SS04, and SS06. These areas are closest to the sump for the former fuel dispenser when the closed UST was in use at this site.

- Conduct four quarterly groundwater monitoring events following the limited source removal activities. Groundwater samples will be collected from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8, and MW-10 for laboratory analyses of VOCs, PAHs, and TRPH to evaluate post-remediation groundwater quality. The latest groundwater sampling event showed monitoring well MW-5 contained TRPH at 5.01 milligrams per liter (mg/L), slightly exceeding the FDEP GCTL of 5 mg/L. None of the identified petroleum constituents exceeded GCTLs in the other monitoring wells sampled during the November 2010 event.

In anticipation of concurrence by the NAVSTA Mayport Installation Restoration Partnering Team (Partnering Team), Tetra Tech has prepared and included a work plan for the proposed source removal actions. The successful completion of the proposed source removal work and four consecutive clean quarters of groundwater monitoring may allow the submittal of a Site Rehabilitation Completion Report in accordance with FDEP regulations.

PROPOSED SOURCE REMOVAL WORK PLAN

The implementation of this work plan for source removal actions is intended to remove soil that may pose a direct exposure risk or potentially contribute to on-site groundwater contamination through leaching. This work plan includes the following sections: contamination discussion, Tetra Tech corrective action approach, source removal purpose and scope, and anticipated schedule. The sections of a typical work plan detailing previous assessment activities and the most recent soil sampling results will be omitted since these discussions are provided in the soil investigation sections above.

CONTAMINATION DISCUSSION

Soil samples collected and analyzed from 2 of the 21 soil sampling locations in the area of the former UST exhibited PAH or TRPH concentrations that exceeded FDEP industrial SCTLs. Soil sample locations SS04 and SS06 exhibiting the COCs were located in the approximate area of the former UST pump sump. Soil samples collected for Synthetic Participate Leaching Procedure analyses from 3 of the 21 soil sampling locations contained concentrations exceeding the PAH or TRPH GCTLs. These exceedances demonstrate a potential for contaminants found in the unsaturated soil zone to leach to groundwater. The laboratory analytical results for soil sampling performed by Tetra Tech are summarized in Table 2.

TETRA TECH PROPOSED CORRECTIVE ACTION APPROACH

The scope of work is intended to eliminate the direct exposure component for this site by excavating three small areas adjacent to the former UST where soils are impacted with petroleum hydrocarbons at concentrations that exceed FDEP SCTLs. For the purposes of evaluating levels of effort, Tetra Tech has designated three smaller separate areas that require remediation to address soil impacts. Area 1 is an area around soil sample SS02 located along the southern limit of the UST, Area 2 is an area around SS04 located along the northern limit of the UST, and Area 3 is an area around SS06 located at the western limit of the UST near the apparent former pump sump. Additionally, it is anticipated that the removal of the soil may assist in reduction of dissolved concentrations in the groundwater. Figure 6 shows the site layout and approximate locations of the proposed excavation areas.

SOURCE REMOVAL PURPOSE AND SCOPE

Tetra Tech proposes to perform a limited source removal action to remove the contaminated soil to the water table. The purpose of the effort is to remove soil to reduce direct exposure risk and to reduce the potential leaching of COCs to groundwater. The work to be completed includes the following major tasks:

1. Mobilization. Mobilization involves preparing subcontracts; clearing utilities; establishing the project field schedule; and mobilizing all staff, equipment, and materials to the site. This task also includes notification of the Navy Remedial Project Manager and the FDEP regarding the beginning of field activities per Chapter 62-780, F.A.C. The Health and Safety Plan for this site will be revised to incorporate safe work practices for the excavation activities. After arriving on site, the project lead will conduct health and safety briefings, establish clean and contaminated zones, construct decontamination areas, etc.

2. Additional Soil Sampling to Delineate the Southern End of the Excavation. The horizontal and vertical extents of impacted soils in the unsaturated zone have been delineated. No additional soil sampling will be conducted as part of the source removal activities. Sufficient soil analytical data was collected during the soil sampling events performed during 2011.

3. Proposed Excavation Areas. As discussed above, Areas 1, 2, and 3 shown on Figure 6 represent the proposed excavation areas to eliminate direct exposure risk concerns due to petroleum hydrocarbons. The excavation of these areas is likely to reduce the potential for impacts to groundwater as well. The major tasks of the excavation activities are as follows:

    a. Remove monitoring wells located within the proposed excavation areas. Monitoring wells MW-1 and MW-5 are located within the proposed excavation limits of Area 3. These monitoring wells were installed within the surficial aquifer. The monitoring wells will be removed during the excavation activities by the excavation contractor. Since the monitoring wells intersect the first saturated interval, they will be removed using the excavation equipment. The monitoring wells are expected to be replaced after the excavation as part of the continued groundwater monitoring activities. Replacement of these monitoring wells will be recommended in a site restoration report.

    b. Excavate impacted soil in Areas 1, 2, and 3. The excavation will be performed by a Tetra Tech subcontractor. The limits of the excavation have been pre-determined by sampling of the soils in these areas. The excavated material will either be placed on 8-mil plastic sheeting and covered with plastic or loaded directly into trucks/roll-off boxes for off-site disposal. If stockpiled on site, the soil will be placed on an impermeable surface (8-mil plastic sheeting) and secured to prevent human exposure to contaminated soil and prevent soil exposure to precipitation that may cause surface runoff. The excavation will be secured to prevent entry by the public. The temporary storage or stockpiling of excavated contaminated soil will not exceed 60 days. The excavation will continue to the approximate top of the water table, anticipated to be approximately 4.5 feet bls. Modifications to this depth may be performed if the seasonal water table is significantly higher or lower demonstrated previously. To maintain excavation safety, the sidewalls of the deeper excavations (approximately 4.5 feet bls) will be sloped slightly.

        Portions of the excavations closest to building foundations or other permanent structures will be performed at distances required to ensure these features are not damaged. To reduce the potential undermining permanent features, the clean backfill material will be placed in the excavations shortly after removal of the contaminated soil. The contaminated soil shall be transported off site by a licensed transportation and disposal company (e.g., EQ or equivalent). Based on analytical results

obtained to date, the soil will be disposed of as non-hazardous waste at an approved Subtitle D Landfill.

4. Site Restoration. The site will be restored similar to original conditions. The following activities will be performed under this task:

   a. Backfill the excavations to a grade as determined by the facility. Once the excavated material is removed and any required approvals are obtained, Tetra Tech will place clean fill material in the excavations to return them to grades acceptable to Station personnel. Tetra Tech proposes to use a borrow source that is certified clean to ensure that the fill material is void of common contaminants. The backfill material will be compacted using typical industry methods in lifts of approximately 2 feet.

   b. Vegetation. The backfilled area will be restored using grass seed, sod, or other ornamental shrubbery/plant life per Station requirements.

5. Provide Source Removal Report. During the field activities, the field lead will document project activities and findings in the logbook or on FDEP-required forms as appropriate. At the completion of the field event, Tetra Tech will prepare a report documenting the site restoration and provide it the Partnering Team for review. The report will include a narrative describing the work performed, graphics showing the location of the material removed, and conclusions and recommendations for the next phase of work.

ANTICIPATED SCHEDULE

Tetra Tech anticipates that this scope of work will be completed with 120 days of approval or notice to proceed. Once this work plan is approved, Tetra Tech will provide a cost estimate for completing the work.

If you have any questions with regard to this submittal, please feel free to contact me at (904) 730-4669, extension 213, or via e-mail at Mark.Peterson@TetraTech.com.

Sincerely,

Mark A. Peterson, P.G.
Task Order Manager

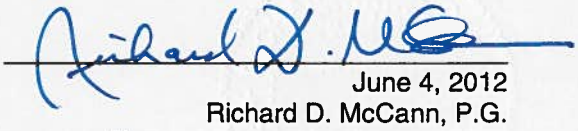
MAP/ds

Attachments (10)

c: John Winters, FDEP (1 copy, 1 CD)
Paul Malewicki, NAVSTA Mayport (1 copy, 1 CD)
RDM (unbound copy, 1 CD)
NAVSTA Mayport Administrative Record
CTO JM33 Project File

CERTIFICATION

The information contained is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the information described in this report. This Soil Investigation Report was developed for Site 1343 at the Naval Station Mayport, Jacksonville, Florida and should not be construed to apply to any other site.



June 4, 2012
Richard D. McCann, P.G.
Florida License Number PG-2358

TABLES

TABLE 1
SOIL VAPOR RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Soil Boring Number	Date of Measurement	Sample Depth (feet bls)	Headspace Readings (ppm)		
			Total Organic Reading	Carbon Filtered Reading	Net Reading
SB-01	2/2/2011	0.50	5.0	0.0	5.0
		2.00	4.7	0.0	4.7
		4.00	48.2	3.2	45.0
		4.25	132.3	19.2	113.1
SB-02	2/2/2011	0.50	9.0	0.0	9.0
		2.00	0.0	0.0	0.0
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-03	2/2/2011	0.50	0.0	0.0	0.0
		2.00	10.4	0.0	10.4
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-04	2/2/2011	0.50	0.0	0.0	0.0
		2.00	0.0	0.0	0.0
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-05	2/2/2011	0.50	0.3	0.0	0.3
		2.00	0.0	0.0	0.0
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-06	2/2/2011	0.50	0.0	0.0	0.0
		2.00	0.0	0.0	0.0
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-07	2/2/2011	0.50	0.0	0.0	0.0
		2.00	0.5	0.0	0.5
		4.00	0.3	0.0	0.3
		4.25	0.0	0.0	0.0
SB-08	2/2/2011	0.50	0.0	0.0	0.0
		2.00	3.2	0.0	3.2
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-09	2/2/2011	0.50	0.0	0.0	0.0
		2.00	0.0	0.0	0.0
		4.00	0.0	0.0	0.0
		4.25	0.5	0.0	0.5
SB-10	2/2/2011	0.50	0.0	0.0	0.0
		2.00	45.2	2.8	42.4
		4.00	48.2	0.0	48.2
		4.25	47.2	0.0	47.2

TABLE 1
SOIL VAPOR RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Soil Boring Number	Date of Measurement	Sample Depth (feet bls)	Headspace Readings (ppm)		
			Total Organic Reading	Carbon Filtered Reading	Net Reading
SB-11	2/2/2011	0.50	0.0	0.0	0.0
		2.00	3.3	0.0	3.3
		4.00	1.0	0.0	1.0
		4.25	0.0	0.0	0.0
SB-12	2/2/2011	0.50	2.2	0.0	2.2
		2.00	1.0	0.0	1.0
		4.00	36.8	2.3	34.5
		4.25	52.9	1.8	51.1
SB-13	2/4/2011	0.50	0.0	0.0	0.0
		2.00	0.2	0.0	0.2
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-14	2/4/2011	0.50	0.0	0.0	0.0
		2.00	0.0	0.0	0.0
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0
SB-15	2/4/2011	0.50	1.0	0.0	1.0
		2.00	0.0	0.0	0.0
		4.00	0.5	0.0	0.5
		4.25	0.0	0.0	0.0
SB-03 (reconfirmation)	2/4/2011	0.50	0.0	0.0	0.0
		2.00	1.1	0.0	1.1
		4.00	0.0	0.0	0.0
		4.25	0.0	0.0	0.0

Notes:
bls = Below land surface
ppm = Part per million

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS01		
SAMPLE IDENTIFICATION				**MPT-1343-SS1-0.5-20110216**	**MPT-1343-SS1-2.0-20110216**	**MPT-1343-SS1-4.0-20110216**
SAMPLE DATE				**20110216**	**20110216**	**20110216**
BOTTOM DEPTH				**0.5**	**2**	**4**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.0348 U	0.00285 J	0.00786 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.0348 U	0.00357 J	0.00786 U
ACENAPHTHENE	2400	20000	2.1	0.0348 U	0.00723 U	0.00786 U
ACENAPHTHYLENE	1800	20000	27	0.0348 U	0.00723 U	0.00786 U
ANTHRACENE	21000	300000	2500	0.0348 U	0.00244 J	0.00786 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.047327	0.018624	0.010458
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0806	0.0212	0.0177 J
BENZO(A)PYRENE	0.1	0.7	8	0.0176 J	0.0105	0.00786 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.0234 J	0.0168	0.00786 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0348 U	0.00817	0.00786 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.0348 U	0.00616 J	0.00786 U
CHRYSENE	NC	NC	77	0.0131 J	0.00849	0.00786 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.0348 U	0.00723 U	0.00786 U
FLUORANTHENE	3200	59000	1200	0.0181 J	0.0171	0.00302 J
FLUORENE	2600	33000	160	0.0348 U	0.00723 U	0.00786 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0348 U	0.0064 J	0.00786 U
NAPHTHALENE	55	300	1.2	0.0348 U	0.00344 J	0.00786 U
PHENANTHRENE	2200	36000	250	0.0348 U	0.0101	0.00336 J
PYRENE	2400	45000	880	0.0191 J	0.0142	0.00283 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	177	49.2 J	50.9 J

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS01		
SAMPLE IDENTIFICATION				MPT-1343-SS1-0.5-20110216	MPT-1343-SS1-2.0-20110216	MPT-1343-SS1-4.0-20110216
SAMPLE DATE				20110216	20110216	20110216
BOTTOM DEPTH				0.5	2	4
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

LOCATION	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS01	1343-SS02	
SAMPLE IDENTIFICATION				MPT-1343-SS1-4.5-20110216	MPT-1343-SS2-0.5-20110216	MPT-1343-SS2-2.0-20110216
SAMPLE DATE				20110216	20110216	20110216
BOTTOM DEPTH				4.5	0.5	2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00801 U	0.00193 J	0.582 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00801 U	0.00229 J	0.582 U
ACENAPHTHENE	2400	20000	2.1	0.00801 U	0.00723 U	0.582 U
ACENAPHTHYLENE	1800	20000	27	0.00801 U	0.0022 J	0.582 U
ANTHRACENE	21000	300000	2500	0.00801 U	0.00204 J	0.582 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.012018	0.017865	**0.660301 [R]**
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0186	0.0194	0.582 U
BENZO(A)PYRENE	0.1	0.7	8	0.00482 J	0.0112	0.582 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00858	0.00723 U	0.169 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00405 J	0.0118	0.582 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00801 U	0.00723 U	0.582 U
CHRYSENE	NC	NC	77	0.0038 J	0.00695 J	0.582 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00801 U	0.00344 J	0.582 U
FLUORANTHENE	3200	59000	1200	0.00646 J	0.0112	0.582 U
FLUORENE	2600	33000	160	0.00801 U	0.00723 U	0.582 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS01** **MPT-1343-SS1-4.5-20110216** **4.5**	**1343-SS02** **MPT-1343-SS2-0.5-20110216** **0.5**	**1343-SS02** **MPT-1343-SS2-2.0-20110216** **2**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00432 J	0.00882	0.582 U
NAPHTHALENE	55	300	1.2	0.00801 U	0.00319 J	0.582 U
PHENANTHRENE	2200	36000	250	0.00406 J	0.0057 J	0.582 U
PYRENE	2400	45000	880	0.00587 J	0.0091	0.582 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	46.2 J	111	113
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS02** **MPT-1343-SS2-4.0-20110216** **4**	**1343-SS02** **MPT-1343-SS2-4.5-20110216** **4.5**	**1343-SS03** **MPT-1343-SS3-0.5-20110216** **0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00823 U	0.00892 U	0.0381 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00823 U	0.00892 U	0.0381 U
ACENAPHTHENE	2400	20000	2.1	0.00823 U	0.00892 U	0.0381 U
ACENAPHTHYLENE	1800	20000	27	0.00823 U	0.00892 U	0.0381 U
ANTHRACENE	21000	300000	2500	0.00823 U	0.00892 U	0.0381 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.008974	0.013498	0.053408
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0184	0.0215	0.0896
BENZO(A)PYRENE	0.1	0.7	8	0.00219 J	0.00892 U	0.0212 J

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS02		1343-SS03
				MPT-1343-SS2-4.0-20110216 4	**MPT-1343-SS2-4.5-20110216 4.5**	**MPT-1343-SS3-0.5-20110216 0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00375 J	0.018	0.0248 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00823 U	0.00513 J	0.0126 J
BENZO(K)FLUORANTHENE	NC	NC	24	0.00823 U	0.00854 J	0.0381 U
CHRYSENE	NC	NC	77	0.00268 J	0.00588 J	0.0181 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00823 U	0.00892 U	0.0381 U
FLUORANTHENE	3200	59000	1200	0.00358 J	0.00605 J	0.0187 J
FLUORENE	2600	33000	160	0.00823 U	0.00892 U	0.0381 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00823 U	0.00538 J	0.0151 J
NAPHTHALENE	55	300	1.2	0.00823 U	0.00234 J	0.0381 U
PHENANTHRENE	2200	36000	250	0.00237 J	0.00358 J	0.0381 U
PYRENE	2400	45000	880	0.00397 J	0.00611 J	0.0216 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	36.3 J	33.7 J	23.1 J
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS03		
				MPT-1343-SS3-2.0-20110216 2	**MPT-1343-SS3-4.0-20110216 4**	**MPT-1343-SS3-4.5-20110216 4.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00751 U	0.00795 U	0.0155 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00205 J	0.00795 U	0.0155 U
ACENAPHTHENE	2400	20000	2.1	0.00751 U	0.00795 U	0.0155 U
ACENAPHTHYLENE	1800	20000	27	0.00751 U	0.00216 J	0.0155 U
ANTHRACENE	21000	300000	2500	0.00751 U	0.00795 U	0.0155 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.00858	0.016132	0.021057
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00751 U	0.0189	0.0155 U
BENZO(A)PYRENE	0.1	0.7	8	0.00345 J	0.00822	0.00994 J
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00721 J	0.0152	0.0158
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0033 J	0.00819	0.0106 J
BENZO(K)FLUORANTHENE	NC	NC	24	0.00751 U	0.00628 J	0.0155 U
CHRYSENE	NC	NC	77	0.00265 J	0.00539 J	0.00626 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00751 U	0.00795 U	0.0155 U
FLUORANTHENE	3200	59000	1200	0.00375 J	0.00743 J	0.00637 J
FLUORENE	2600	33000	160	0.00751 U	0.00795 U	0.0155 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0024 J	0.0046 J	0.00929 J
NAPHTHALENE	55	300	1.2	0.00751 U	0.00795 U	0.00442 J
PHENANTHRENE	2200	36000	250	0.00347 J	0.00296 J	0.00459 J
PYRENE	2400	45000	880	0.00249 J	0.00693 J	0.00717 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	28.2 J	36.8 J	36.3 J
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS04		
				MPT-1343-SS4-0.5-20110216 0.5	**MPT-1343-SS4-2.0-20110216 2**	**MPT-1343-SS4-4.0-20110216 4**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.645 U	0.0378 U	0.00735 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.645 U	0.0378 U	0.00735 U
ACENAPHTHENE	2400	20000	2.1	0.645 U	0.0378 U	0.00735 U
ACENAPHTHYLENE	1800	20000	27	0.645 U	0.0378 U	0.00735 U
ANTHRACENE	21000	300000	2500	0.645 U	0.0378 U	0.00735 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	**0.7452975 [R][I]**	0.049812	0.00849293 U
BENZO(A)ANTHRACENE	NC	NC	0.8	0.645 U	0.0877	0.00735 U
BENZO(A)PYRENE	0.1	0.7	8	0.645 U	0.0183 J	0.00735 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.645 U	0.0214 J	0.00735 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.645 U	0.0145 J	0.00735 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.645 U	0.0378 U	0.00735 U
CHRYSENE	NC	NC	77	0.645 U	0.0131 J	0.00735 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.645 U	0.0378 U	0.00735 U
FLUORANTHENE	3200	59000	1200	0.645 U	0.0251 J	0.00735 U
FLUORENE	2600	33000	160	0.645 U	0.0378 U	0.00735 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.645 U	0.015 J	0.00735 U
NAPHTHALENE	55	300	1.2	0.645 U	0.0378 U	0.00735 U
PHENANTHRENE	2200	36000	250	0.645 U	0.0131 J	0.00735 U
PYRENE	2400	45000	880	0.645 U	0.0224 J	0.00735 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS04 MPT-1343-SS4-0.5-20110216 0.5	1343-SS04 MPT-1343-SS4-2.0-20110216 2	1343-SS04 MPT-1343-SS4-4.0-20110216 4
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	**815 [R][L]**	58.9	26.5 J
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	25.4	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	170	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	45.3	NA	NA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS04 MPT-1343-SS4-4.5-20110216 4.5	1343-SS05 MPT-1343-SS5-0.5-20110217 0.5	1343-SS05 MPT-1343-SS5-2.0-20110217 2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.0159 U	0.00766 U	0.00297 J
2-METHYLNAPHTHALENE	210	2100	8.5	0.0159 U	0.00269 J	0.00569 J
ACENAPHTHENE	2400	20000	2.1	0.0159 U	0.00766 U	0.00845 U
ACENAPHTHYLENE	1800	20000	27	0.0159 U	0.00766 U	0.00845 U
ANTHRACENE	21000	300000	2500	0.0159 U	0.0395	0.00812 J
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.01837245 U	0.00885113 U	0.011174
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0159 U	0.00766 U	0.0198
BENZO(A)PYRENE	0.1	0.7	8	0.0159 U	0.00766 U	0.00845 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.0159 U	0.00766 U	0.00449 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0159 U	0.00561 J	0.00454 J
BENZO(K)FLUORANTHENE	NC	NC	24	0.0159 U	0.00766 U	0.00845 U
CHRYSENE	NC	NC	77	0.0159 U	0.00766 U	0.00845 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.0159 U	0.00766 U	0.00845 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS04** **MPT-1343-SS4-4.5-20110216** **4.5**	**1343-SS05** **MPT-1343-SS5-0.5-20110217** **0.5**	**1343-SS05** **MPT-1343-SS5-2.0-20110217** **2**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
FLUORANTHENE	3200	59000	1200	0.0159 U	0.00295 J	0.00461 J
FLUORENE	2600	33000	160	0.0159 U	0.00766 U	0.00845 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0159 U	0.00766 U	0.00249 J
NAPHTHALENE	55	300	1.2	0.0159 U	0.00766 U	0.00327 J
PHENANTHRENE	2200	36000	250	0.0159 U	0.00766 U	0.00845 U
PYRENE	2400	45000	880	0.0159 U	0.00368 J	0.00424 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	29.4 J	137	42.4 J
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS05** **MPT-1343-SS5-4.0-20110217** **4**	**1343-SS05** **MPT-1343-SS5-4.5-20110217** **4.5**	**1343-SS06** **MPT-1343-SS6-0.5-20110217** **0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00755 U	0.00268 J	0.00738 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00755 U	0.00268 J	0.00275 J
ACENAPHTHENE	2400	20000	2.1	0.00755 U	0.00743 U	0.00738 U
ACENAPHTHYLENE	1800	20000	27	0.00755 U	0.00743 U	0.00738 U
ANTHRACENE	21000	300000	2500	0.00755 U	0.00743 U	0.0268
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.00872403 U	0.00858537 U	0.008396

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS05		1343-SS06
				MPT-1343-SS5-4.0-20110217 4	**MPT-1343-SS5-4.5-20110217 4.5**	**MPT-1343-SS6-0.5-20110217 0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00755 U	0.00743 U	0.00738 U
BENZO(A)PYRENE	0.1	0.7	8	0.00755 U	0.00743 U	0.00738 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00755 U	0.00743 U	0.00738 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00755 U	0.00796	0.00738 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00755 U	0.00743 U	0.00738 U
CHRYSENE	NC	NC	77	0.00755 U	0.00743 U	0.00738 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00755 U	0.00743 U	0.00738 U
FLUORANTHENE	3200	59000	1200	0.00755 U	0.00287 J	0.00738 U
FLUORENE	2600	33000	160	0.00755 U	0.00743 U	0.00738 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00755 U	0.00743 U	0.00239 J
NAPHTHALENE	55	300	1.2	0.00755 U	0.00743 U	0.00238 J
PHENANTHRENE	2200	36000	250	0.00755 U	0.00743 U	0.00738 U
PYRENE	2400	45000	880	0.00755 U	0.00743 U	0.00738 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	85.5	168	253
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	30.4	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	108	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	47.4	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS06		
				MPT-1343-SS6-2.0-20110217 2	**MPT-1343-SS6-20110701 2**	**MPT-1343-SS6-20110701 4**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.62	NA	NA
2-METHYLNAPHTHALENE	210	2100	8.5	0.751	NA	NA
ACENAPHTHENE	2400	20000	2.1	0.0568 U	NA	NA
ACENAPHTHYLENE	1800	20000	27	0.0568 U	NA	NA
ANTHRACENE	21000	300000	2500	0.0568 U	NA	NA
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.0656324 U	NA	NA
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0568 U	NA	NA
BENZO(A)PYRENE	0.1	0.7	8	0.0568 U	NA	NA
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.0568 U	NA	NA
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0168 J	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	24	0.0568 U	NA	NA
CHRYSENE	NC	NC	77	0.0568 U	NA	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.0568 U	NA	NA
FLUORANTHENE	3200	59000	1200	0.0568 U	NA	NA
FLUORENE	2600	33000	160	0.0568 U	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0568 U	NA	NA
NAPHTHALENE	55	300	1.2	0.155	NA	NA
PHENANTHRENE	2200	36000	250	0.0568 U	NA	NA
PYRENE	2400	45000	880	0.232	NA	NA
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	**7420 [R][I][L]**	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS06		
				MPT-1343-SS6-2.0-20110217 2	**MPT-1343-SS6-20110701 2**	**MPT-1343-SS6-20110701 4**
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	20 U	**1400 [L]**
C19-C36 ALIPHATICS	42000	280000	NC	NA	9.8 U	623
C9-C18 ALIPHATICS	2900	21000	140000	NA	12.1	**3710 [R]**

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS06		1343-SS07
				MPT-1343-SS6-4.0-20110217 4	**MPT-1343-SS6-4.5-20110217 4.5**	**MPT-1343-SS7-0.5-20110217 0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.0787 U	0.0768 U	0.00711 J
2-METHYLNAPHTHALENE	210	2100	8.5	0.0787 U	0.0768 U	0.00393 J
ACENAPHTHENE	2400	20000	2.1	**3.26 [L]**	0.0768 U	0.00182 U
ACENAPHTHYLENE	1800	20000	27	0.0787 U	0.0768 U	0.00182 U
ANTHRACENE	21000	300000	2500	0.0787 U	0.0768 U	0.00182 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	**0.243809 [R]**	**0.179969 [R]**	0.002483
BENZO(A)ANTHRACENE	NC	NC	0.8	0.349	0.273	0.00182 U
BENZO(A)PYRENE	0.1	0.7	8	**0.133 [R]**	0.0939	0.00182 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.152	0.135	0.0047 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0796	0.0545 J	0.00577 J
BENZO(K)FLUORANTHENE	NC	NC	24	0.0859	0.0712 J	0.00182 U
CHRYSENE	NC	NC	77	0.24	0.157	0.0026 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.0521 J	0.0768 U	0.00182 U
FLUORANTHENE	3200	59000	1200	0.947	0.712	0.0046 J
FLUORENE	2600	33000	160	0.0787 U	0.0768 U	0.00182 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0751 J	0.06 J	0.00182 U
NAPHTHALENE	55	300	1.2	0.0787 U	0.0768 U	0.00205 J

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS06		1343-SS07
				MPT-1343-SS6-4.0-20110217 4	**MPT-1343-SS6-4.5-20110217 4.5**	**MPT-1343-SS7-0.5-20110217 0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
PHENANTHRENE	2200	36000	250	0.0787 U	0.0768 U	0.00345 J
PYRENE	2400	45000	880	1.32	0.958	0.00383 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	1.28 J	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	**12400 [R][I][L]**	**7890 [R][I][L]**	53.6
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	**2910 [R][L]**	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	1190	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	**3970 [R]**	NA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS07		
				MPT-1343-SS7-2.0-20110217 2	**MPT-1343-SS7-4.0-20110217 4**	**MPT-1343-SS7-4.5-20110217 4.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00969	0.0142	0.356
2-METHYLNAPHTHALENE	210	2100	8.5	0.00513 J	0.00721	0.136
ACENAPHTHENE	2400	20000	2.1	0.00176 U	0.00582 J	0.00184 U
ACENAPHTHYLENE	1800	20000	27	0.00176 U	0.00178 U	0.00184 U
ANTHRACENE	21000	300000	2500	0.00176 U	0.00178 U	0.00184 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.006918	0.003706	0.038955
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0169	0.0162	0.0527
BENZO(A)PYRENE	0.1	0.7	8	0.00416 J	0.00178 U	0.0265
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00176 U	0.00178 U	0.0327
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00441 J	0.00232 J	0.00963

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS07		
				MPT-1343-SS7-2.0-20110217 2	**MPT-1343-SS7-4.0-20110217 4**	**MPT-1343-SS7-4.5-20110217 4.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
BENZO(K)FLUORANTHENE	NC	NC	24	0.00176 U	0.00178 U	0.0199
CHRYSENE	NC	NC	77	0.00405 J	0.00274 J	0.0431
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00176 U	0.00178 U	0.0027 J
FLUORANTHENE	3200	59000	1200	0.00604 J	0.00486 J	0.206
FLUORENE	2600	33000	160	0.00176 U	0.00178 U	0.373
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00176 U	0.00207 J	0.00973
NAPHTHALENE	55	300	1.2	0.00176 U	0.00369 J	0.00184 U
PHENANTHRENE	2200	36000	250	0.00176 U	0.00178 U	0.00184 U
PYRENE	2400	45000	880	0.00613 J	0.00484 J	0.202
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	81.1	61.6	259
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	62.3
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	18.1
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	61.3

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS08		
				MPT-1343-SS8-0.5-20110217 0.5	**MPT-1343-SS8-2.0-20110217 2**	**MPT-1343-SS8-4.0-20110217 4**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.0137 J	0.00751 J	0.0046 J
2-METHYLNAPHTHALENE	210	2100	8.5	0.00909 U	0.00338 J	0.00259 J
ACENAPHTHENE	2400	20000	2.1	0.00909 U	0.00217 U	0.00199 U
ACENAPHTHYLENE	1800	20000	27	0.00909 U	0.00217 U	0.00199 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS08 MPT-1343-SS8-0.5-20110217 0.5	1343-SS08 MPT-1343-SS8-2.0-20110217 2	1343-SS08 MPT-1343-SS8-4.0-20110217 4
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
ANTHRACENE	21000	300000	2500	0.00909 U	0.00217 U	0.00199 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.019139	0.004838	0.002403
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0795	0.00217 U	0.00199 U
BENZO(A)PYRENE	0.1	0.7	8	0.00909 U	0.00296 J	0.00199 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.0159 J	0.00353 J	0.00206 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00909 U	0.00257 J	0.00199 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00909 U	0.00217 U	0.00199 U
CHRYSENE	NC	NC	77	0.0104 J	0.00315 J	0.00199 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00909 U	0.00217 U	0.00199 U
FLUORANTHENE	3200	59000	1200	0.011 J	0.00318 J	0.00268 J
FLUORENE	2600	33000	160	0.00909 U	0.00217 U	0.00199 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00909 U	0.00319 J	0.00199 U
NAPHTHALENE	55	300	1.2	0.00909 U	0.00217 U	0.00199 U
PHENANTHRENE	2200	36000	250	0.00909 U	0.00299 J	0.00214 J
PYRENE	2400	45000	880	0.0122 J	0.00351 J	0.00219 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	53.1	46.6 J	46.8 J
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS08** **MPT-1343-SS8-4.5-20110217** **4.5**	**1343-SS09** **MPT-1343-SS9-0.5-20110217** **0.5**	 **MPT-1343-SS9-2.0-20110217** **2**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00496 J	0.00395 J	0.00248 J
2-METHYLNAPHTHALENE	210	2100	8.5	0.00459 J	0.00257 J	0.00187 U
ACENAPHTHENE	2400	20000	2.1	0.00207 U	0.00179 U	0.00187 U
ACENAPHTHYLENE	1800	20000	27	0.00207 U	0.00179 U	0.00187 U
ANTHRACENE	21000	300000	2500	0.00207 U	0.00179 U	0.00187 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.002545	0.002807	0.002499
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00207 U	0.00179 U	0.00187 U
BENZO(A)PYRENE	0.1	0.7	8	0.00207 U	0.00179 U	0.00187 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00258 J	0.00572 J	0.00432 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00235 J	0.00179 U	0.00187 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00207 U	0.00179 U	0.00187 U
CHRYSENE	NC	NC	77	0.00207 U	0.00179 U	0.00235 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00207 U	0.00179 U	0.00187 U
FLUORANTHENE	3200	59000	1200	0.00207 U	0.00392 J	0.00301 J
FLUORENE	2600	33000	160	0.00207 U	0.00179 U	0.00187 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00207 U	0.00348 J	0.00187 U
NAPHTHALENE	55	300	1.2	0.00226 J	0.00179 U	0.00187 U
PHENANTHRENE	2200	36000	250	0.00255 J	0.00273 J	0.00204 J
PYRENE	2400	45000	880	0.00211 J	0.00331 J	0.0027 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	49.1 J	46.1 J	55.3
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS09		1343-SS10
				MPT-1343-SS9-4.0-20110217 4	**MPT-1343-SS9-4.5-20110217 4.5**	**MPT-1343-SS10-0.5-20110218 0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00212 J	0.00216 J	0.00339 J
2-METHYLNAPHTHALENE	210	2100	8.5	0.00188 U	0.00189 U	0.00296 J
ACENAPHTHENE	2400	20000	2.1	0.00188 U	0.00189 U	0.00182 U
ACENAPHTHYLENE	1800	20000	27	0.00188 U	0.00189 U	0.00182 U
ANTHRACENE	21000	300000	2500	0.00188 U	0.00266 J	0.00182 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.005381	0.017459	0.004376
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0173	0.0194	0.0165
BENZO(A)PYRENE	0.1	0.7	8	0.00208 J	0.0118	0.00182 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00378 J	0.0194	0.00515 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00188 U	0.00683 J	0.00439 J
BENZO(K)FLUORANTHENE	NC	NC	24	0.00188 U	0.00983	0.00182 U
CHRYSENE	NC	NC	77	0.00256 J	0.00741 J	0.00369 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00188 U	0.00189 U	0.00182 U
FLUORANTHENE	3200	59000	1200	0.00456 J	0.00701 J	0.00466 J
FLUORENE	2600	33000	160	0.00188 U	0.00189 U	0.00182 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00242 J	0.00729 J	0.00379 J
NAPHTHALENE	55	300	1.2	0.00188 U	0.00189 U	0.00215 J
PHENANTHRENE	2200	36000	250	0.00318 J	0.00362 J	0.00486 J
PYRENE	2400	45000	880	0.00581 J	0.0108	0.00422 J
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	63.9	81.7	60.8
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS10		
				MPT-1343-SS10-2.0-20110218 2	**MPT-1343-SS10-4.0-20110218 4**	**MPT-1343-SS10-4.5-20110218 4.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00228 J	0.00337 J	0.00982 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.0021 J	0.00238 J	0.00982 U
ACENAPHTHENE	2400	20000	2.1	0.00188 U	0.0019 U	0.00982 U
ACENAPHTHYLENE	1800	20000	27	0.00188 U	0.0019 U	0.00982 U
ANTHRACENE	21000	300000	2500	0.00188 U	0.0019 U	0.00982 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.004205	0.005087	0.01134701 U
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00188 U	0.0188	0.00982 U
BENZO(A)PYRENE	0.1	0.7	8	0.00252 J	0.0019 U	0.00982 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.0039 J	0.00889	0.00982 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00188 U	0.00458 J	0.00982 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00188 U	0.0019 U	0.00982 U
CHRYSENE	NC	NC	77	0.00188 U	0.00479 J	0.00982 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00188 U	0.0019 U	0.00982 U
FLUORANTHENE	3200	59000	1200	0.00551 J	0.00914	0.00982 U
FLUORENE	2600	33000	160	0.00188 U	0.0019 U	0.00982 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00252 J	0.00405 J	0.00982 U
NAPHTHALENE	55	300	1.2	0.00188 U	0.00221 J	0.00982 U
PHENANTHRENE	2200	36000	250	0.00388 J	0.00531 J	0.00982 U
PYRENE	2400	45000	880	0.00566 J	0.00835	0.00982 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	59.3	70.5	56.1
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS11		
				MPT-1343-SS11-0.5-20110218 0.5	**MPT-1343-SS11-2.0-20110218 2**	**MPT-1343-SS11-4.0-20110218 4**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00921 U	0.00182 J	0.00182 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00921 U	0.00179 U	0.00182 U
ACENAPHTHENE	2400	20000	2.1	0.00921 U	0.00179 U	0.00182 U
ACENAPHTHYLENE	1800	20000	27	0.00921 U	0.00179 U	0.00182 U
ANTHRACENE	21000	300000	2500	0.00921 U	0.00179 U	0.00182 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.019671	0.00206835 U	0.00210301 U
BENZO(A)ANTHRACENE	NC	NC	0.8	0.082	0.00179 U	0.00182 U
BENZO(A)PYRENE	0.1	0.7	8	0.00921 U	0.00179 U	0.00182 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.0174 J	0.00179 U	0.00182 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00921 U	0.00179 U	0.00182 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00921 U	0.00179 U	0.00182 U
CHRYSENE	NC	NC	77	0.0159 J	0.00179 U	0.00182 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00921 U	0.00179 U	0.00182 U
FLUORANTHENE	3200	59000	1200	0.0291 J	0.00179 U	0.00182 U
FLUORENE	2600	33000	160	0.00921 U	0.00179 U	0.00182 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00921 U	0.00179 U	0.00182 U
NAPHTHALENE	55	300	1.2	0.00921 U	0.00179 U	0.00182 U
PHENANTHRENE	2200	36000	250	0.0164 J	0.00179 U	0.00182 U
PYRENE	2400	45000	880	0.0228 J	0.00179 U	0.00182 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	179	45.7 J	38.5 J
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS11** **MPT-1343-SS11-4.5-20110218** **4.5**	**1343-SS12** **MPT-1343-SS12-20110701** **2**	**1343-SS13** **MPT-1343-SS13-20110701** **2**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00199 U	NA	NA
2-METHYLNAPHTHALENE	210	2100	8.5	0.00199 U	NA	NA
ACENAPHTHENE	2400	20000	2.1	0.00199 U	NA	NA
ACENAPHTHYLENE	1800	20000	27	0.00199 U	NA	NA
ANTHRACENE	21000	300000	2500	0.00199 U	NA	NA
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.00229945 U	0.00244217 U	0.00657164 U
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00199 U	0.00414 U	0.00643 U
BENZO(A)PYRENE	0.1	0.7	8	0.00199 U	0.00178 U	0.00914 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00199 U	0.00711 U	0.0113 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00199 U	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	24	0.00199 U	0.00178 U	0.00656 U
CHRYSENE	NC	NC	77	0.00199 U	0.00354 U	0.00868 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00199 U	0.00178 U	0.00196 U
FLUORANTHENE	3200	59000	1200	0.00199 U	NA	NA
FLUORENE	2600	33000	160	0.00199 U	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00199 U	0.00178 U	0.00196 U
NAPHTHALENE	55	300	1.2	0.00199 U	NA	NA
PHENANTHRENE	2200	36000	250	0.00199 U	NA	NA
PYRENE	2400	45000	880	0.00199 U	NA	NA
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	44.9 J	NA	NA
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS14** **MPT-1343-SS14-20110701** **0.5**	**1343-SS15** **MPT-1343-SS15-20110701** **0.5**	**1343-SS16** **MPT-1343-SS16-20110701** **0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	NA	NA	NA
2-METHYLNAPHTHALENE	210	2100	8.5	NA	NA	NA
ACENAPHTHENE	2400	20000	2.1	NA	NA	NA
ACENAPHTHYLENE	1800	20000	27	NA	NA	NA
ANTHRACENE	21000	300000	2500	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.0242655 U	0.00560655 U	0.0221269 U
BENZO(A)ANTHRACENE	NC	NC	0.8	0.021 U	0.00593 U	0.0245 U
BENZO(A)PYRENE	0.1	0.7	8	0.021 U	0.00743 U	0.0189 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.021 U	0.0117 U	0.0189 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	NA	NA	NA
BENZO(K)FLUORANTHENE	NC	NC	24	0.021 U	0.00549 U	0.0189 U
CHRYSENE	NC	NC	77	0.021 U	0.0072 U	0.0348 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.021 U	0.00178 U	0.0189 U
FLUORANTHENE	3200	59000	1200	NA	NA	NA
FLUORENE	2600	33000	160	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.021 U	0.00178 U	0.0189 U
NAPHTHALENE	55	300	1.2	NA	NA	NA
PHENANTHRENE	2200	36000	250	NA	NA	NA
PYRENE	2400	45000	880	NA	NA	NA
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	NA	NA
C19-C36 ALIPHATICS	42000	280000	NC	NA	NA	NA
C9-C18 ALIPHATICS	2900	21000	140000	NA	NA	NA

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS17** **MPT-1343-SS17-20110701** **0.5**	**1343-SS18** **MPT-1343-SS18-20110701** **0.5**	**1343-SS18** **MPT-1343-SS18-20110701** **2**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	NA	0.019 U	0.0146 J
2-METHYLNAPHTHALENE	210	2100	8.5	NA	0.019 U	0.022
ACENAPHTHENE	2400	20000	2.1	NA	0.019 U	0.00199 U
ACENAPHTHYLENE	1800	20000	27	NA	0.019 U	0.00199 U
ANTHRACENE	21000	300000	2500	NA	0.019 U	0.00199 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.00199902 U	0.0219545 U	0.003399
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00173 U	0.019 U	0.00424 U
BENZO(A)PYRENE	0.1	0.7	8	0.00173 U	0.019 U	0.00199 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00173 U	0.019 U	0.00708 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	NA	0.019 U	0.00199 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00173 U	0.019 U	0.00464 U
CHRYSENE	NC	NC	77	0.00173 U	0.019 U	0.00464 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00173 U	0.019 U	0.00199 U
FLUORANTHENE	3200	59000	1200	NA	0.0218 U	0.00901 U
FLUORENE	2600	33000	160	NA	0.019 U	0.00199 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00173 U	0.019 U	0.00818 J
NAPHTHALENE	55	300	1.2	NA	0.019 U	0.0243
PHENANTHRENE	2200	36000	250	NA	0.019 U	0.0125 U
PYRENE	2400	45000	880	NA	0.019 U	0.00802 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	NA	23 U	19 U
C19-C36 ALIPHATICS	42000	280000	NC	NA	11 U	15.8
C9-C18 ALIPHATICS	2900	21000	140000	NA	11 U	9.7 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS18		1343-SS19
				MPT-1343-SS18-20110701 4	**MPT-1343-SS18-20110701 4.5**	**MPT-1343-SS19-20110701 0.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00189 U	0.0025 U	0.00504 J
2-METHYLNAPHTHALENE	210	2100	8.5	0.00189 U	0.0025 U	0.00538 J
ACENAPHTHENE	2400	20000	2.1	0.00189 U	0.00255 J	0.00248 J
ACENAPHTHYLENE	1800	20000	27	0.00189 U	0.0025 U	0.00195 U
ANTHRACENE	21000	300000	2500	0.00189 U	0.0025 U	0.00195 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.00226552 U	0.00300625 U	0.006609
BENZO(A)ANTHRACENE	NC	NC	0.8	0.0035 U	0.0025 U	0.00195 U
BENZO(A)PYRENE	0.1	0.7	8	0.00189 U	0.0025 U	0.00743 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00189 U	0.00485 U	0.0124 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00189 U	0.0025 U	0.00195 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00189 U	0.0025 U	0.00195 U
CHRYSENE	NC	NC	77	0.00413 U	0.0025 U	0.00683 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00189 U	0.0025 U	0.00195 U
FLUORANTHENE	3200	59000	1200	0.00817 U	0.00546 U	0.0136 U
FLUORENE	2600	33000	160	0.00189 U	0.0025 U	0.00195 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00189 U	0.0025 U	0.0119 J
NAPHTHALENE	55	300	1.2	0.00189 U	0.0025 U	0.00624 J
PHENANTHRENE	2200	36000	250	0.0086 U	0.00918 U	0.0146 U
PYRENE	2400	45000	880	0.00657 U	0.00403 U	0.011 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	22 U	23.8	20 U
C19-C36 ALIPHATICS	42000	280000	NC	11 U	19.6	10 U
C9-C18 ALIPHATICS	2900	21000	140000	11 U	10 U	10 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS19		
				MPT-1343-SS19-20110701 2	**MPT-1343-SS19-20110701 4**	**MPT-1343-SS19-20110701 4.5**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.00178 U	0.00191 U	0.00183 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00178 U	0.00191 U	0.00183 U
ACENAPHTHENE	2400	20000	2.1	0.00178 U	0.00227 J	0.00196 J
ACENAPHTHYLENE	1800	20000	27	0.00178 U	0.00191 U	0.00183 U
ANTHRACENE	21000	300000	2500	0.00178 U	0.00191 U	0.00183 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.00205679 U	0.00399701 U	0.002597
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00178 U	0.00191 U	0.00234 U
BENZO(A)PYRENE	0.1	0.7	8	0.00178 U	0.00549 U	0.00183 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00178 U	0.00191 U	0.00183 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00178 U	0.00191 U	0.00183 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00178 U	0.00191 U	0.00183 U
CHRYSENE	NC	NC	77	0.00178 U	0.00191 U	0.00348 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00178 U	0.00191 U	0.00183 U
FLUORANTHENE	3200	59000	1200	0.00535 U	0.00487 U	0.00586 U
FLUORENE	2600	33000	160	0.00178 U	0.00191 U	0.00203 J
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00178 U	0.00191 U	0.00549 J
NAPHTHALENE	55	300	1.2	0.00178 U	0.00191 U	0.00183 U
PHENANTHRENE	2200	36000	250	0.00682 U	0.00689 U	0.00699 U
PYRENE	2400	45000	880	0.0046 U	0.00519 U	0.00493 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	20 U	19 U	20 U
12	42000	280000	NC	10 U	9.3 U	10 U
C9-C18 ALIPHATICS	2900	21000	140000	10 U	9.3 U	10 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS20		
				MPT-1343-SS20-20110701 0.5	**MPT-1343-SS20-20110701 2**	**MPT-1343-SS20-20110701 4**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.0144 J	0.00278 J	0.0026 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.0119 J	0.00542 J	0.134
ACENAPHTHENE	2400	20000	2.1	0.00977 U	0.00259 J	0.552
ACENAPHTHYLENE	1800	20000	27	0.00977 U	0.00204 U	0.226
ANTHRACENE	21000	300000	2500	0.00977 U	0.00204 U	0.0026 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	0.01128924 U	0.00235722 U	**0.187777 [R]**
BENZO(A)ANTHRACENE	NC	NC	0.8	0.00977 U	0.00204 U	0.18
BENZO(A)PYRENE	0.1	0.7	8	0.00977 U	0.00204 U	**0.123 [R]**
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.00977 U	0.00204 U	0.207
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00977 U	0.00204 U	0.0486 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.00977 U	0.00204 U	0.0799
CHRYSENE	NC	NC	77	0.00977 U	0.00204 U	0.248
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.00977 U	0.00204 U	0.0186 J
FLUORANTHENE	3200	59000	1200	0.0143 U	0.00718 U	0.864
FLUORENE	2600	33000	160	0.00977 U	0.00204 U	1.55
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.00977 U	0.00204 U	0.0643
NAPHTHALENE	55	300	1.2	0.01 J	0.00518 J	0.0969
PHENANTHRENE	2200	36000	250	0.0448 U	0.00204 U	2.65
PYRENE	2400	45000	880	0.017 U	0.00204 U	0.92
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	24.2	59.3	113
C19-C36 ALIPHATICS	42000	280000	NC	29	91.6	29.5
C9-C18 ALIPHATICS	2900	21000	140000	16	107	105

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	**1343-SS20**	**1343-SS21**	
				MPT-1343-SS20-20110701 4.5	**MPT-1343-SS21-20110701 0.5**	**MPT-1343-SS21-20110701 2**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)						
1-METHYLNAPHTHALENE	200	1800	3.1	0.0453	0.0183 U	0.00193 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.0197	0.0183 U	0.00193 U
ACENAPHTHENE	2400	20000	2.1	0.449	0.0183 U	0.00193 U
ACENAPHTHYLENE	1800	20000	27	0.203	0.0183 U	0.00193 U
ANTHRACENE	21000	300000	2500	0.364	0.0183 U	0.00193 U
BAP EQUIVALENT-HALFND	0.1	0.7	-	**0.15846 [R]**	0.02163565 U	0.00223012 U
BENZO(A)ANTHRACENE	NC	NC	0.8	0.125	0.0281 U	0.00193 U
BENZO(A)PYRENE	0.1	0.7	8	0.0999	0.0183 U	0.00193 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.159	0.0183 U	0.00193 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0417 U	0.0183 U	0.00193 U
BENZO(K)FLUORANTHENE	NC	NC	24	0.0512	0.0183 U	0.00193 U
CHRYSENE	NC	NC	77	0.178	0.0183 U	0.00193 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.0237	0.0183 U	0.00193 U
FLUORANTHENE	3200	59000	1200	0.548	0.0273 U	0.00422 U
FLUORENE	2600	33000	160	1.18	0.0183 U	0.00193 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0577	0.0183 U	0.00193 U
NAPHTHALENE	55	300	1.2	0.0375	0.0183 U	0.00193 U
PHENANTHRENE	2200	36000	250	0.495	0.0183 U	0.00715 U
PYRENE	2400	45000	880	0.593	0.0308 U	0.00399 U
SPLP PETROLEUM HYDROCARBONS (mg/L)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)						
TPH (C08-C40)	460	2700	340	NA	NA	NA
EPH MADEP (mg/kg)						
C11-C22 AROMATICS	1800	15000	1000	NA	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	**1190 [L]**	19.7	21 U
12	42000	280000	NC	590	25.8	10 U
C9-C18 ALIPHATICS	2900	21000	140000	**3180 [R]**	9.9	10 U

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

LOCATION SAMPLE IDENTIFICATION SAMPLE DATE BOTTOM DEPTH	FDEP RESIDENTIAL SCTL	FDEP INDUSTRIAL SCTL	FDEP LEACHABILITY SCTL	1343-SS21 MPT-1343-SS21-20110701 4	1343-SS21 MPT-1343-SS21-20110701 4.5
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)					
1-METHYLNAPHTHALENE	200	1800	3.1	3.02	0.912
2-METHYLNAPHTHALENE	210	2100	8.5	0.598	0.163
ACENAPHTHENE	2400	20000	2.1	0.503	0.204
ACENAPHTHYLENE	1800	20000	27	0.199	0.0742
ANTHRACENE	21000	300000	2500	0.414	0.206
BAP EQUIVALENT-HALFND	0.1	0.7	-	**0.260013 [R]**	**0.118146 [R]**
BENZO(A)ANTHRACENE	NC	NC	0.8	0.268	0.14
BENZO(A)PYRENE	0.1	0.7	8	**0.177 [R]**	0.0797
BENZO(B)FLUORANTHENE	NC	NC	2.4	0.235	0.1
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0807	0.0378
BENZO(K)FLUORANTHENE	NC	NC	24	0.0869	0.0392
CHRYSENE	NC	NC	77	0.274	0.144
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	0.0245	0.0104 J
FLUORANTHENE	3200	59000	1200	1.32	0.69
FLUORENE	2600	33000	160	1.33	0.633
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	0.0707	0.0351
NAPHTHALENE	55	300	1.2	0.189	0.0703
PHENANTHRENE	2200	36000	250	1.1	0.369
PYRENE	2400	45000	880	1.13	0.59
SPLP PETROLEUM HYDROCARBONS (mg/L)					
TPH (C08-C40)	460	2700	340	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)					
TPH (C08-C40)	460	2700	340	NA	NA
EPH MADEP (mg/kg)					
C11-C22 AROMATICS	1800	15000	1000	NA	NA
C11-C22 AROMATICS-UNADJ	1800	15000	1000	536	498
C19-C36 ALIPHATICS	42000	280000	NC	185	183
C9-C18 ALIPHATICS	2900	21000	140000	913	879

TABLE 2
SOIL ANALYICAL RESULTS

SOIL INVESTIGATION REPORT FOR SITE 1343
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Notes:

Bold values indicate an exceedance of regulatory criteria.

EPH = extractable petroleum hydrocarbon

MADEP = Massachusetts Department of Environmental Protection Method

SPLP = Synthetic Participate Leaching Procedure

bls = below land surface

NC = No criteria. FDEP requires these analytes be evaluated using a benzo(a)pyrene equivalent calculation. The result of the calculation is compared to the benzo(a)pyrene criteria.

NA = not analyzed

U = The analyte was not detected in excess of the laboratory detection limit.

J =eEstimated value

R = Exceeds the residential direct exposure SCTL established in Chapter 62-777, F.A.C.

I = Exceeds the industrial direct exposure SCTL established in Chapter 62-777, F.A.C.

FIGURES

N

95

295

10

JACKSONVILLE

NAVAL STATION MAYPORT

Atlantic Ocean

St. Johns River

NAS JACKSONVILLE

NAS CECIL FIELD

95

NS MAYPORT

Atlantic Ocean

Gulf of Mexico

Tallahassee

Jacksonville

Gainesville

Daytona Beach

Orlando

Tampa

Fort Myers

Fort Lauderdale

Miami

5 0 5 Miles

DRAWN BY: K. PEILA	DATE: 4/17/06
CHECKED BY: D. SIEFKEN	DATE: 5/11/06
COST/SCHEDULE-AREA	
SCALE: AS NOTED	

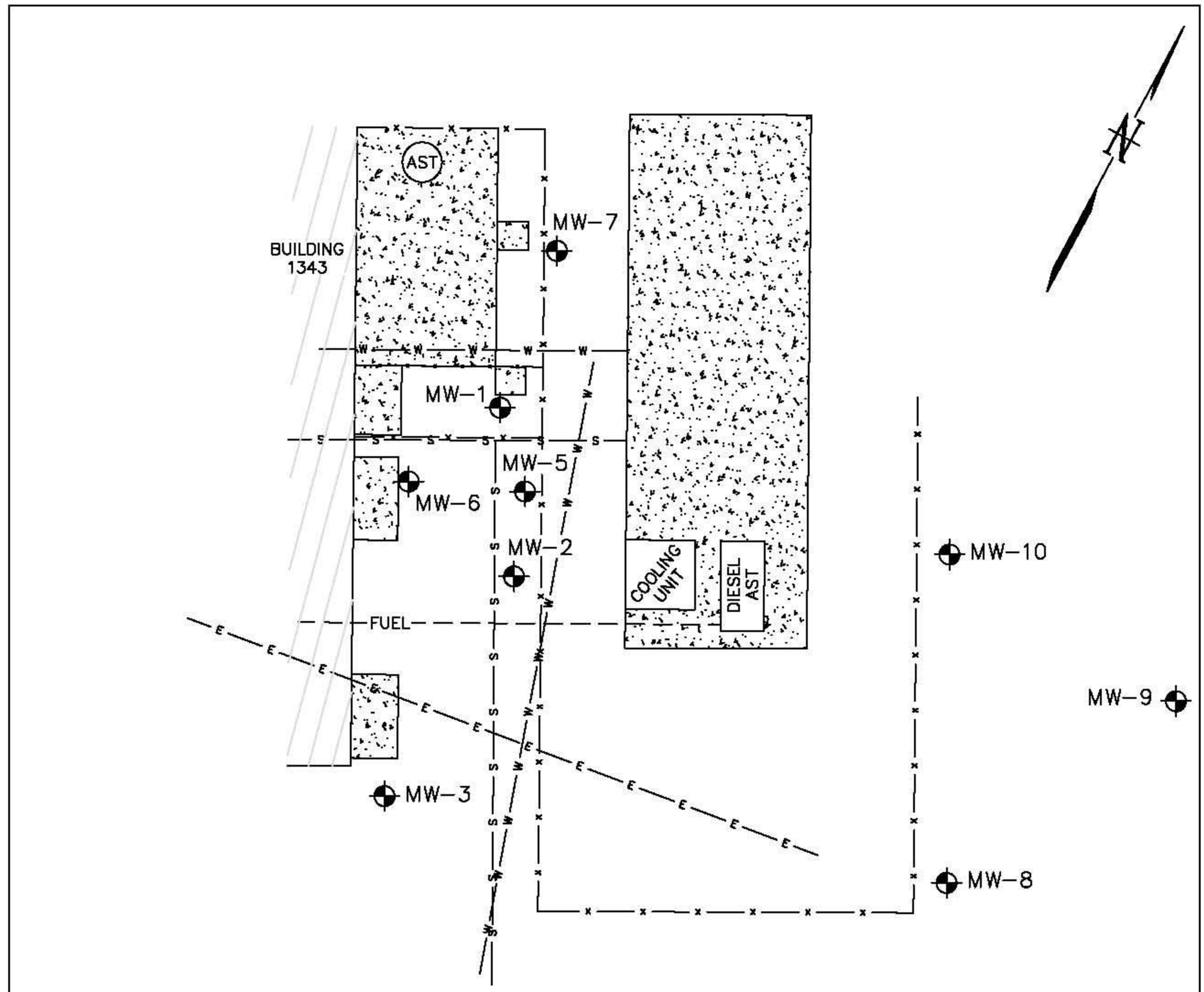
NAVFAC

REGIONAL AREA MAP
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER: 112G02801	
APPROVED BY: —	DATE: —
APPROVED BY: —	DATE: —
DRAWING NO.: FIGURE 1	REV: 0

P:\GIS\MAYPORT_NS\MAPDOCS\APR\STATEMENT_BASIS.APR REGIONAL AREA 5/11/06 SS

P:\Jacksonville Drafting\Naval Station Mayport\1343SM1.dwg 03-07-07 JFF



LEGEND

MW-1 Monitor Well Location/ Designation

Fence

Electrical

Sanitary Sewer

Water

Concrete

MW-4

0 10 20

APPROXIMATE SCALE in FEET

DRAWN BY JFF DATE 03-07-07	SITE MAP SITE 1343 NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NO. 112G02801
CHECKED BY TC DATE 03-07-07		APPROVED BY DATE
COST/SCHED-AREA		APPROVED BY DATE
SCALE AS NOTED		DRAWING NO. FIGURE 2 REV. 0

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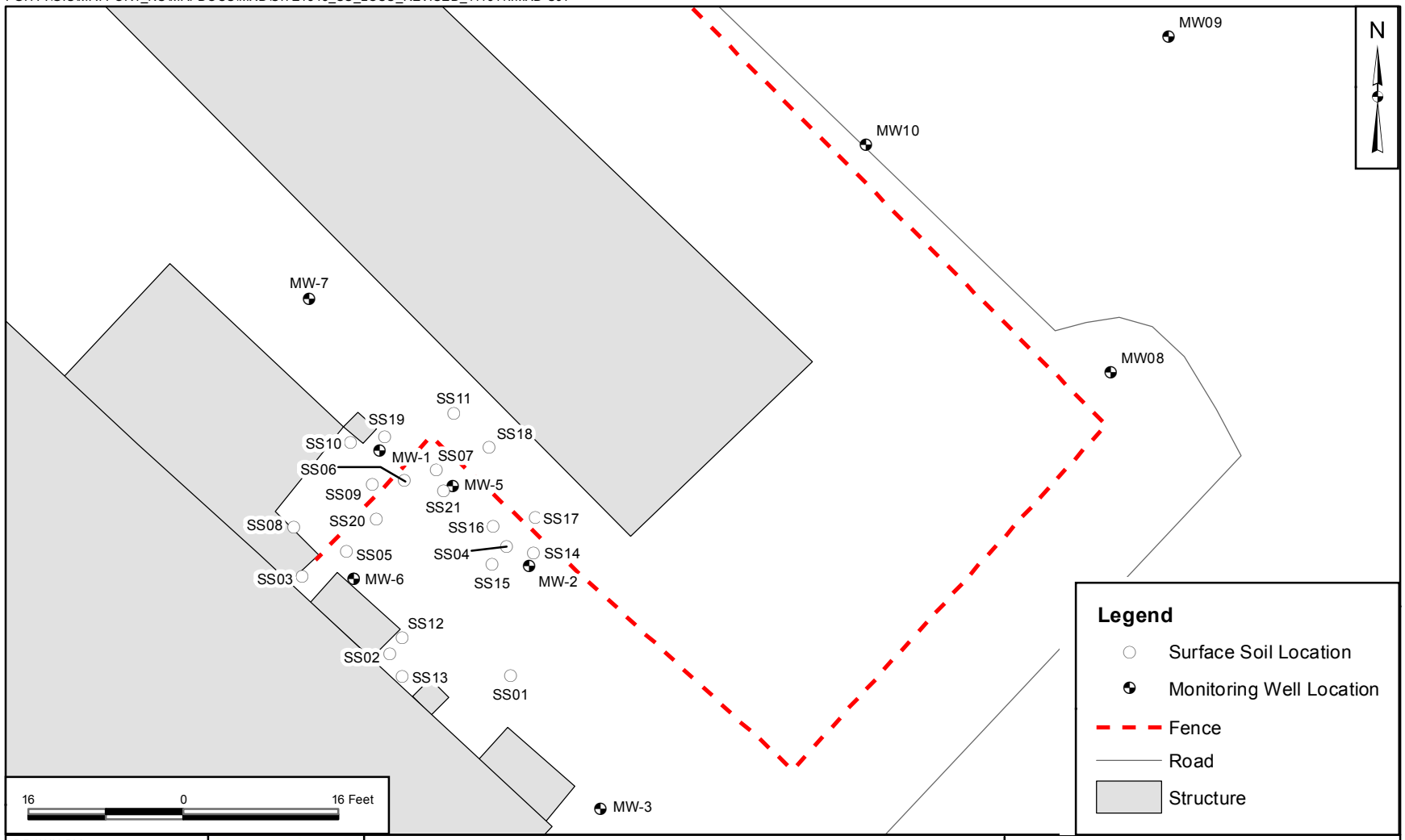
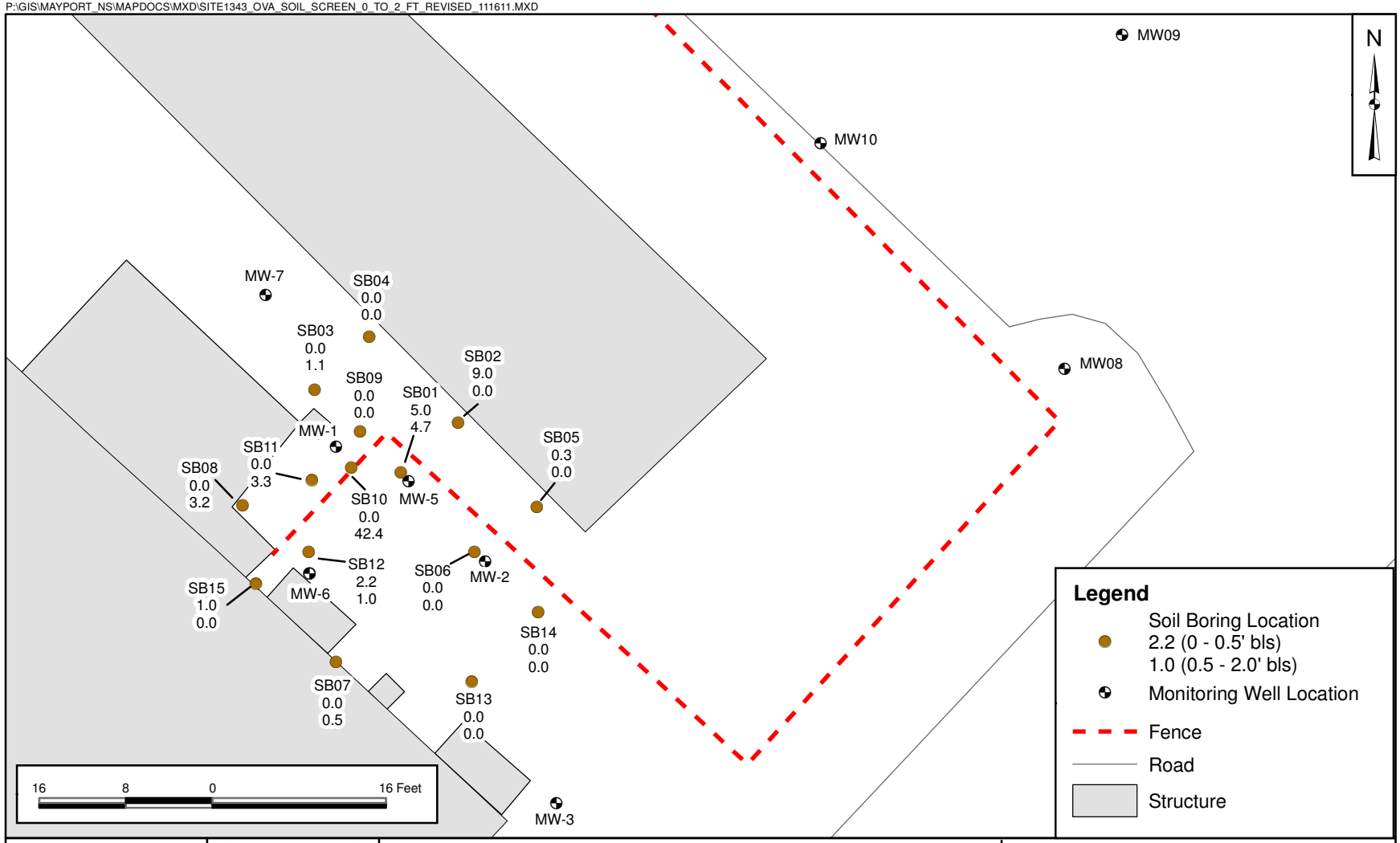


DRAWN BY: S. STROZ	DATE: 08/25/11	SOIL SAMPLE LOCATION MAP SITE 1343 US NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 0118
CHECKED BY: D. SIEFKEN	DATE: 08/25/11		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 3 REV: 0

P:\GIS\MAYPORT_NS\MAPDOCS\MXD\SITE1343_OVA_SOIL_SCREEN_0_TO_2_FT_REVISED_111611.MXD



DRAWN BY: S. STROZ — DATE: 03/23/11	NAVFAC	SOIL INVESTIGATION REPORT SOIL OVA-FID SOIL SCREENING RESULTS 0 FEET - 2 FEET SITE 1343 US NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 0118
CHECKED BY: D. SIEFKEN — DATE: 03/23/11			APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 4 — REV: 0

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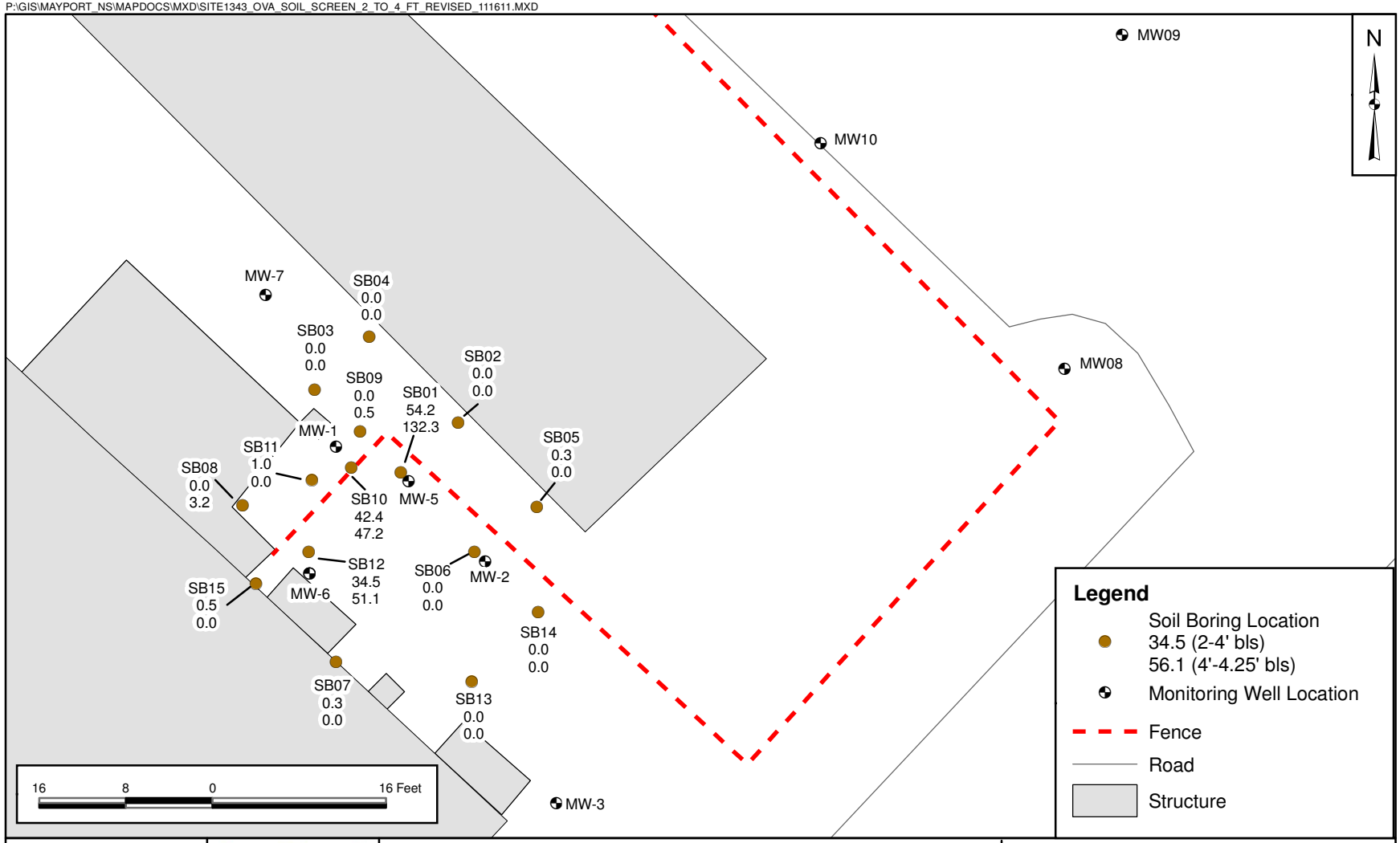

DRAWN BY: S. STROZ — DATE: 03/23/11	NAVFAC	SOIL INVESTIGATION REPORT SOIL OVA-FID SOIL SCREENING RESULTS 2.0 FEET - 4.25 FEET SITE 1343 US NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 0118
CHECKED BY: D. SIEFKEN — DATE: 03/23/11			APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 5 — REV: 0

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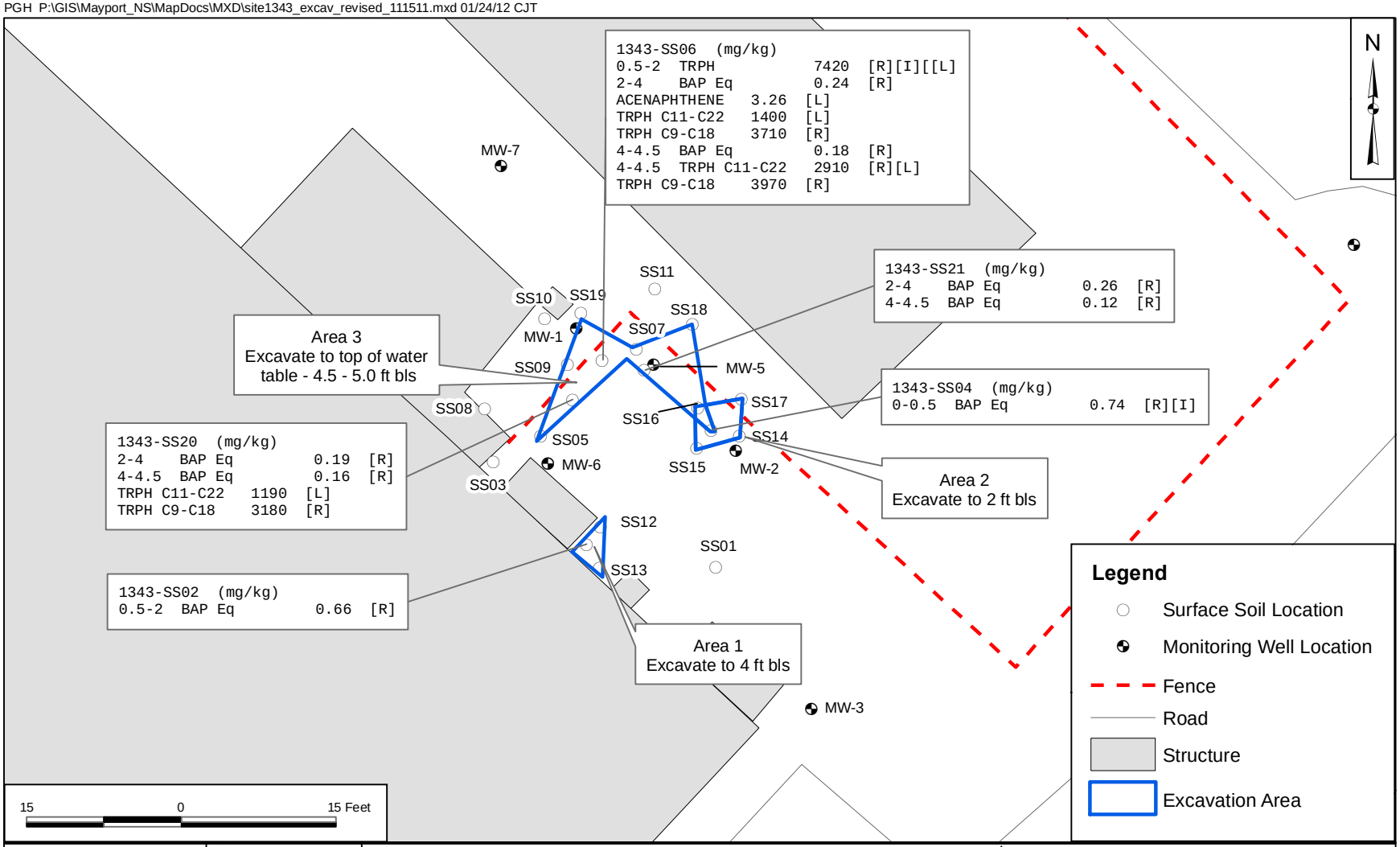


DRAWN BY: S. STROZ	DATE: 09/30/11	SOIL EXCEEDANCE MAP SITE 1343 US NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 0118
CHECKED BY: D. SIEFKEN	DATE: 10/03/11		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 6 REV: 0

ATTACHMENT 1

FIELD FORMS

Site 1343 - Soil Investigation 2 Feb 11

Personel: Dave Siefken (DS)
Tod Trumbull (TT)
Weather: 70°F Chance of rain
PPE: Level "D"
Obj.: Screen soil 4 FID

0815 On site begin set up. Start FID & allow to warm

0845 Calibrate FID - ID of FID CZETF216
Calibrated to 99.9 ppm
Cal gas 1000 ppm methane
Lot # 346071
Exp May 2011

0900 Did tailgate H&S. Discussed hospital & 1st responder + contamination.
Talked with front desk person in bldg 1343. Told person our plans for the day & they said "ok"

OVA SCREEN TABLE

ID	0 - 0.5	0.5 - 2	2 - 4	4 - 4.2
~~SB01~~	WF / W/OF	WF / WOF	WF / WOF	WF / WOF
SB01	0.0 / 5.0	0.0 / 4.7	3.2 / 48.2	19.2 / 138.3
SB-02	0.0 / 9.0	- / 0.0	- / 0.0	- / 0.0
SB-03	- / 0.0	0.0 / 10.4	- / 0.0	- / 0.0
SB-04	- / 0.0	- / 0.0	- / 0.0	- / 0.0
SB-05	- / 0.3	- / 0.0	- / 0.0	- / 0.0
SB-06	- / 0.0	- / 0.0	- / 0.0	- / 0.0
SB-07	- / 0.0	- / 0.5	- / 0.3	- / 0.0
SB-08	- / 0.0	- / 3.2	- / 0.0	- / 0.0
SB-09	- / 0.0	- / 0.0	- / 0.0	- / 0.5
SB-10	- / 0.0	2.8 / 45.2	0.0 / 48.2	0.02 / 47.2
SB-11	- / 0.0	- / 3.3	- / 1.0	- / 0.0
SB-12	- / 2.2	- / 1.0	2.3 / 36.8	1.8 / 52.9

WF: With Filter, WOF = Without Filter

Mayport N.A.S. 1343 Soil Investigation 2/2/11

Soil Description SB-01

0 - 0.5'	Black, coarse sand, small shell/rock fragments, some organics
0.5 - 2.0	Light brown/med brown coarse sand, rock fragments
2.0 - 4.0	@ 2.5' bLS, hit soft marine clay, medium grey, strong/med petro. odor.
4.0 - 4.3	Black, moist clay, strong petroleum odor, some black silty sand.

Soil Description SB-02

0 - 0.2'	Black organic material, Black sand
0.2 - 1.0'	medium brown coarse sand, small shell fragments
1.0 - 2.0'	Light brown, large shell fragments, coarse sand, small clay inclusions
2.0 - 4.0'	Light brown, large shell fragments, coarse - med sand, some grey clay
4.0 - 4.25'	" " " " " "

Soil Description SB-03

0. 0.5	Dark Brown, organic materials, some coarse med brown sand
0.5 - 1.0	med brown, coarse sand w/ small shell fragments } strong organic odor
1.0 - 1.5	Dark brown, - Black coarse sand. } strong organic odor
1.5 - 2.5	light - medium brown coarse sand w/ abundant large shell fragments. } strong organic odor
2.5 - 4.0	light - medium brown coarse sand some large shells, med brown clay inclusions
4.0	→ Grey marine clay inclusions
4.0 - 4.3	light brown coarse sand w/ small shell fragments

Soil Description SB-04

0. - 0.5	Dark Brown coarse sand, some organic matter
0.5 - 2.0	medium Brown coarse sand, some grey marine clay inclusions, sm. shell frags.
2.0 - 4.0	light - medium brown coarse sand, some med. brown clay inclusions, large shell frags.
4.0 - 4.25	light brown coarse sand, moist, abundant small shell fragments.

Soil Description SB-05

0. - 0.5	medium brown coarse sand w/ organic material
0.5 - 1.0	Dark brown med - coarse sand w/ small shell fragments
1.0 - 2.0	light brown coarse sand w/ some silt, some small med brown clay.
2.0 - 3.5	medium brown silty - sand, med grained, small shell fragments
3.5 - 4.0	light brown coarse sand, abundant small shell fragments, some clay.
4.0 - 4.25	" " " " " " "

TRC
2/2/11

MAYPORT N.A.S Building 1343 Soil Investigation 2/2/11

Soil Description SB-09

0.-0.5 DARK Brown Coarse Sand, moist, some small Rocks, shell fragments.
0.5-2.0 medium to dark brown Coarse-med grained Sand, small shells
2.0-4.0 medium to dark brown/grey, 50% grey clay) coarse sand, small shell frags
4.0-4.5 Dark grey/black marine clay, some silty sand, some small shells
4.5-6.0 → Black med grained sand w/small shells, clay inclusions

Soil Description SB-10

0.-0.5 Very dark brown, med. Grain SAND, organic matter
0.5-2.0 Color change at 1.0' bls to dark grey w/50% marine clay (strong petro odor)
2.0-4.0 " " " " " " "
4.0-4.5 dark grey/black sandy clay, medium grained, strong petro. odor

Soil Description SB-11

0.-0.5 medium grey/brown, med grain sand, some organic matter
0.5-2.0 medium brown fine grained, some large shell fragments
2.0-4.0 medium brown/dark grey, med grained sand. some small shell frags
4.0-4.5 DARK grey coarse sand, moist. no odor → [REFUSAL 4.5]

Soil Description SB-12

0.-0.5 DARK grey, medium-coarse sand, some organic material
0.5-2.0 medium brown, coarse sand, trace small shell fragments.
2.0-4.0 DARK brown, medium-coarse sand, trace shell,* [petro odor at 3.0']
4.0-4.5 Black clayey-sand, moist - strong petroleum odor.

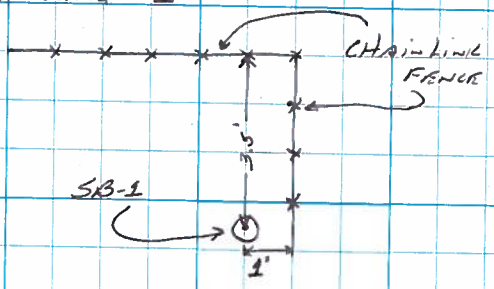
* HAND AUGER AND ASSOCIATED EQUIPMENT WAS DECONTAMINATED PROPERLY BETWEEN COLLECTION POINTS AND BORING LOCATIONS TO PREVENT CROSS CONTAMINATION. SOILS THAT EXHIBITED OVA READINGS OVER 10 ppm WERE CONTAINERIZED AND DEPOSITED IN THE SOLIDS COLLECTION DRUM AT THE IDW STORAGE AREA. LIQUIDS FROM DECONTAMINATION ACTIVITIES WERE CONTAINERIZED AND TRANSPORTED TO TETRA TECH TOTE #1 AT THE IDW STORAGE AREA.

1725 OFF SITE.

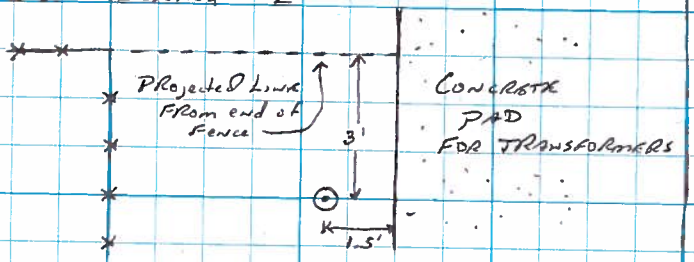
2/2/11

SOIL BORING LOCATION DIAGRAMS

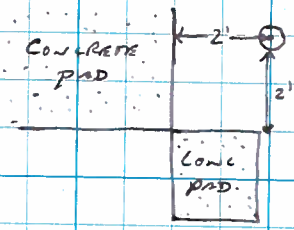
SOIL BORING #1



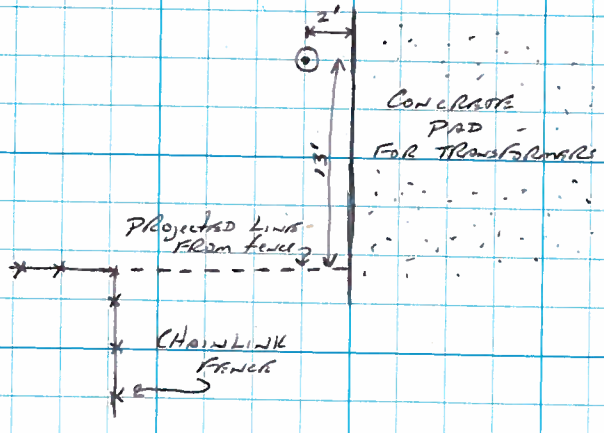
SOIL BORING #2



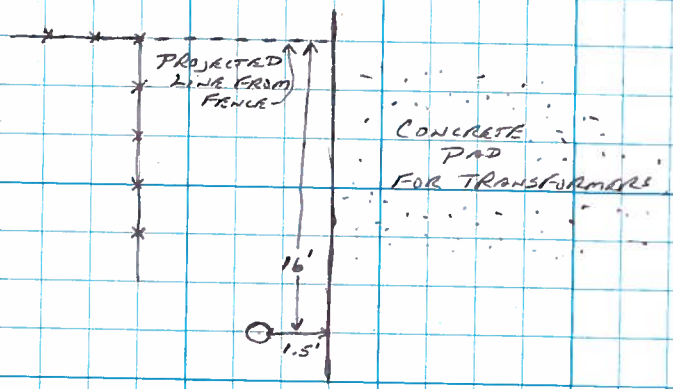
SOIL BORING #3



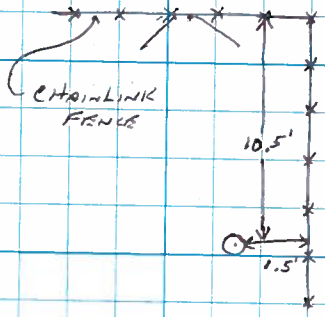
SOIL BORING #4



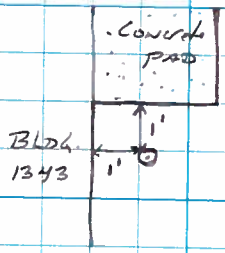
SOIL BORING #5



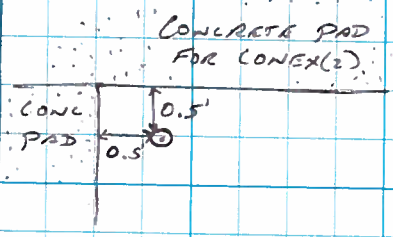
SOIL BORING #6



SOIL BORING #7



SOIL BORING #8



PERSONNEL: D. SIEFKAS / T. TRUMBULL
WEATHER: OVERCAST, LIGHT RAIN ATTIMES, 52°
PPE: LEVEL D
OBJ: COMPLETE SOIL SCREENING / SITE DELINEATION

0745 ON SITE, LOCATING EDGES OF TANK, DETERMINING SOIL SCREENING POINTS.
0830 TAIL GATE H+S - CONTRA - GROUND UTILITIES, ACTIVE GAS LINE.
0930 BEGIN SOIL SCREENING, PLANNED POINTS 13-14-15.

OVA SCREEN TABLE

ID	0.-0.5		0.5-2.0		2.0-4.0		4.0-4.25	
[redacted]	W/F	W/O F	W/F	W/O F	W/F	W/O F	W/F	W/O F
SB-13	—	0.00	—	0.20	—	0.00	—	0.00
SB-14	—	0.00	—	0.00	—	0.0	—	0.00
SB-15	—	1.00	—	0.00	—	0.50	—	0.00
SB-03 (CONF)	—	—	—	1.10	—	—	—	—

* Re-confirmation of SB-03.

SOIL DESCRIPTION SB-13
0.-0.5 - DARK BROWN to DARK grey fine sand, some organic matter, moist.
0.5-2.0 - DARK BROWN, fine-med grain sand, several large shell fragments
2.0-4.0 - DARK BROWN, med grained sand, some grey clay, sm. shell fragments
4.0-4.5 - DARK BROWN, approx 70% DARK grey clay at 4.25', very moist.

SOIL DESCRIPTION SB-14
0.-0.5 - medium brown, fine grained sand, some organic matter., moist
0.5-2.0 - medium - DK. brown, medium grained sand, small shells, moist
2.0-4.0 - DARK brown-DARK grey, medium grained sand, some clay, moist
4.0-4.25 - DARK brown-DARK grey, medium grained sand, 40% clay, wet.

SOIL DESCRIPTION SB-15
0.-0.5 - medium brown/dark grey, fine grained sand, some organic matter. - moist
0.5-2.0 - medium brown/dark grey, medium grained sand, some shell fragments - wet
2.0-4.0 - DARK grey medium grained sand, small shell fragments, wet.
4.0-4.5 - DARK grey medium grained sand, approx 35% grey marine clay - wet
* NOTE - at approx 4.5-5.0', stained layer below water table, petroleum odor. THIS DOES NOT appear to be of concentration to display free product.

MAYPORT N.A.S SITE 1343 SOIL INVESTIGATION- 2/4/11

	DTW
AW-2	4.05
MW-6	3.10
MW-5	3.97

} CHECK OF MONITORING WELL DEPTHS TO SOIL MOISTURE

Late Entry. D. Siefken (2-7-11)

- Auger decon procedures & IDW mangent same as (2-4-11) 2-2-11
- FID calibrated using same cal gas & same instrument as 2-2-11. TT calibrated instrument to 99.9 for Methane
- Shipped FID back to Eagle Inst. 2-4-11
- Pin flags were left in all soil bore locations
- UST was verified to be located

2/4/11

DSK

NAVSTA MAYPORT — SITE 1343 2016 Sampling — 2/16/11

PERSONNEL: TOD TRUMBULL
VEHICLE: 2001 F250
PPE: Level D
WEATHER: 52° Light Rain
Objective: Collect Soil Samples

0730 DEPART Tetratech office for mayport
0820 ARRIVE AT site begin to set up for sampling.
SET up Decon area, obtain access to side gate
0840 CHECK water Levels for main wells:
MW-2 — 4.21
MW-5 — 4.27
MW-6 — 4.09
Determine Sample Collection:
0-0.5' — 8270c PAH/FLPRO
0.5'-2.0' — VOC's + 8270c PAH/FLPRO
2.0'-4.0' — " " "
4.0'-4.5' — " " " + SPLP (by DESIGNER)

1015 SS-1 Soil Description
0-0.5 VERY dk. brown/black Silty sand/organic sl. moist
0.5-2.0 Dark/med. Brown Fine-medium grained sand
2.0-4.0 medium brown Fine-medium grained sand, some sm. shells
4.0-4.5 Dark brown medium grained sand/sm. shells some clay

1125 SS-2 Soil Description
0-0.5 Dark brown organic sand (fine) with some silt moist
0.5-2.0 medium brown, fine-medium grained sand w/some shells
2.0-4.0 medium brown/grey, med grained sand w/abundant shells
4.0-4.5 Dark brown, medium grained sand, shells, clay inclusions (grey)

1400 SS-3 Soil Description
0-0.5 Dark Brown, Fine grain sand, organic, some shells
0.5-2.0 medium brown, Fine-med grain sand, small shells
2.0-4.0 medium brown/grey, med grain sand, some clay
4.0-4.5 Dark brown/grey, med-fine grain sand, shells, some clay

1515 SS-4 Soil Description
0-0.5 Dark Brown, Fine grain sand, organic, moist
0.5-2.0 medium Brown/grey - med. grain sand/some shells
2.0-4.0 Light-med brown/some grey, med grain sand, some shells, damp
4.0-4.5 DK.-med brown, some grey clay, med grained sand, moist.
1700 IDW to TOTE #2 in storage area —
1725 OFF SITE FOR the day

TLT
2/16/11

NAVSTA Mayport — Site 1343 Soil Sampling — 2/17/11

Personnel: TOD TRUMBULL
Vehicle: 2011 F250
PPE: Level D
Weather: 60° Cool Breeze
Objective: Soil Sampling

0800 Leave JAX office for Mayport
0835 Arrive at site, Bell in to set up site.
Obtain access to side gate. (Specialist Thompson - Key #46)
Set up site for sampling.

1000 SS5 - Soil Description
0 - 0.5 Black/dark Brown, fine grain sand, organic - moist
0.5 - 2.0 Dark Brown, fine grain sand, some shells/moist
2.0 - 4.0 medium Brown, some Grey mottling, some odor (possible petrol) clay, med.
4.0 - 4.5 Dark brown/dark grey, petrol odor, med grain sand, moist

SS6 Soil Description
1100 0 - 0.5 Dark brown/black, organic, fine sand, moist, some clay
0.5 - 2.0 Dark/medium grey, med grained sand, some shells, sl moist
2.0 - 4.0 medium brown, some grey, med. coarse sand, abundant shells, sl. moist
4.0 - 4.5 Dark grey, coarse sand, clay inclusions, sl. odor (possible petrol), moist.

SS7 Soil Description
1205 0 - 0.5 Dark Brown/black, organic, fine grain sand, some shells, moist
0.5 - 2.0 Dark/med brown, fine-med grain sand, some clay, some shells, moist
2.0 - 4.0 medium brown/some dk grey, med grained sand w/clay, (grey) sl. moist
4.0 - 4.5 Dark Grey, clay w/some coarse sand, very moist, some odor (possible petro

SS8 Soil Description
1400 0 - 0.5 med. Grey-black, organic/fine sand, some shells - moist
0.5 - 2.0 med. dk grey, fine-medium sand, shells
2.0 - 4.0 med brown-med grey, fine-med grain sand, shells, some clay
4.0 - 4.5 Dark brown/Dark grey, clay inclusions, coarse sand, shells, moist

SS9 Soil Description
1515 0 - 0.5 Dark brown/black, organic, small shells, some clay, moist
0.5 - 2.0 med brown, med. coarse sand, abundant shells, sl. moist
2.0 - 4.0 Dark brown/dk. grey, some clay inclusions, med grain sand, moist
4.0 - 4.5 Dark brown/dk. grey, clay, nodules, coarse sand, very moist

1700 Transfer IDW to tote #2 in storage area
1720 Off site

TKG
2/17/11

Rite in the Rain

NAVSTA MAYPORT SITE 1343 Sampling 2/18/11

PERSONNEL: TOD TRUMBULL

VEHICLE: 2001 F250

PPE: LEVEL D

WEATHER: 67° Sunny

OBJECTIVE: Soil Sampling

0730 DEPART FOR MAYPORT FROM OFFICE

0805 ARRIVE AT SITE, BEGIN PREP activity for site.

Establish Decon AREA and access for side gate

0910 SS 10 SOIL DESCRIPTION

0 - 0.5' DARK BROWN, ORGANIC, abundant sm. shells, Fine-med gr. sand moist

0.5' - 2.0' medium Brown, some grey, Fine-med grain sand, shells, clay inclusions

2.0' - 4.0' med-dk brown, some clay (grey) med grain sand, shells, moist

4.0' - 4.5' DARK grey, clay (grey marine, some med gr. sand, moist

SS 11 SOIL DESCRIPTION

1000 0 - 0.5' DARK grey/black ORGANIC, FINE SAND, moist

0.5 - 2.0' medium brown, abundant shells, Fine-med sand, moist

2.0' - 4.0' med-dark brown, med grain sand, some sm. shells, some clay, moist

4.0 - 4.5' DARK brown, some grey, med-coarse sand, w/clay inclus. NO odor, moist

1230 Complete on-site activity, site secure.

TRANSFER IDW to tote #2 (total 13 gallons from event)

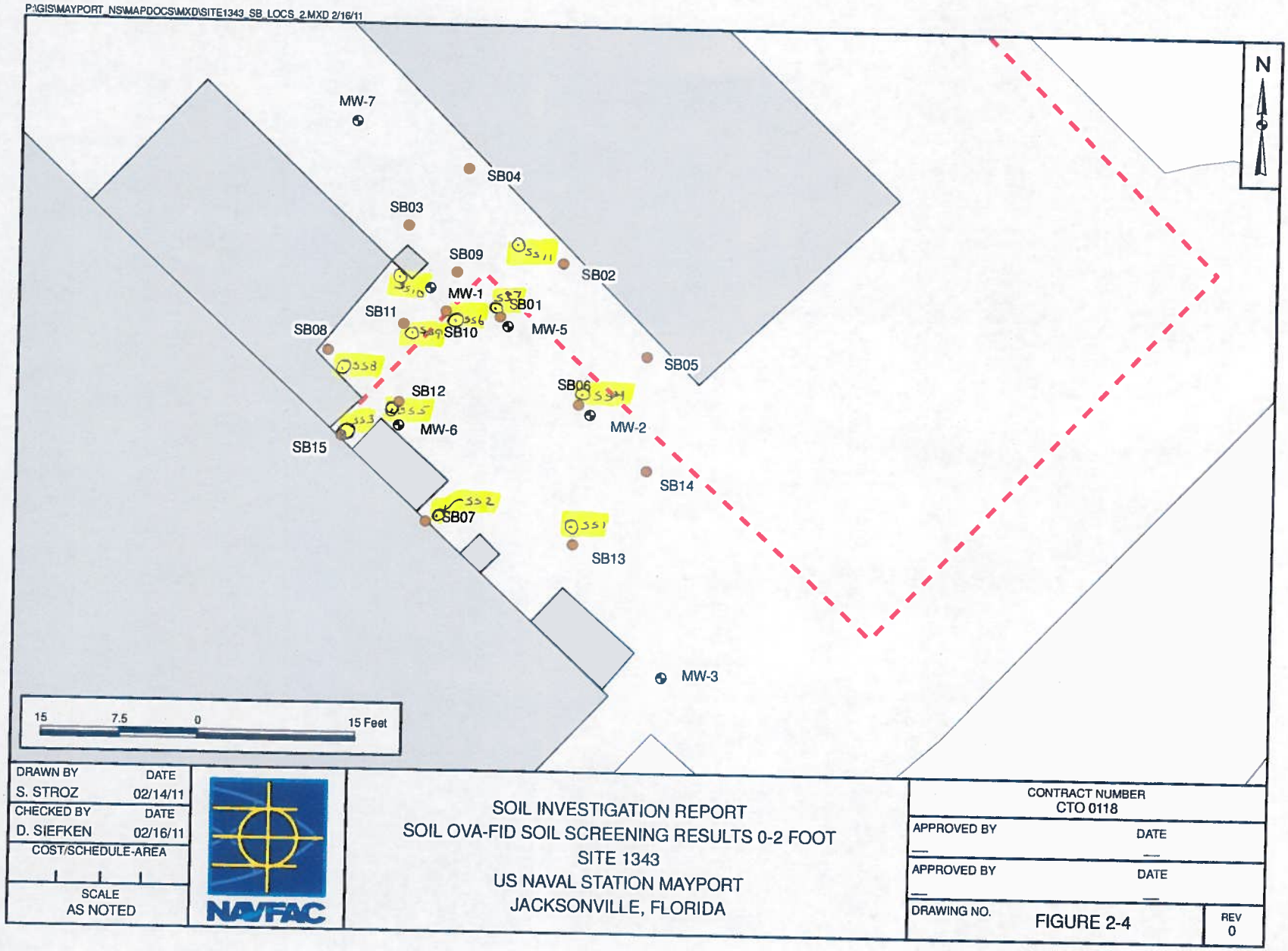
Return Key to Environmental office.

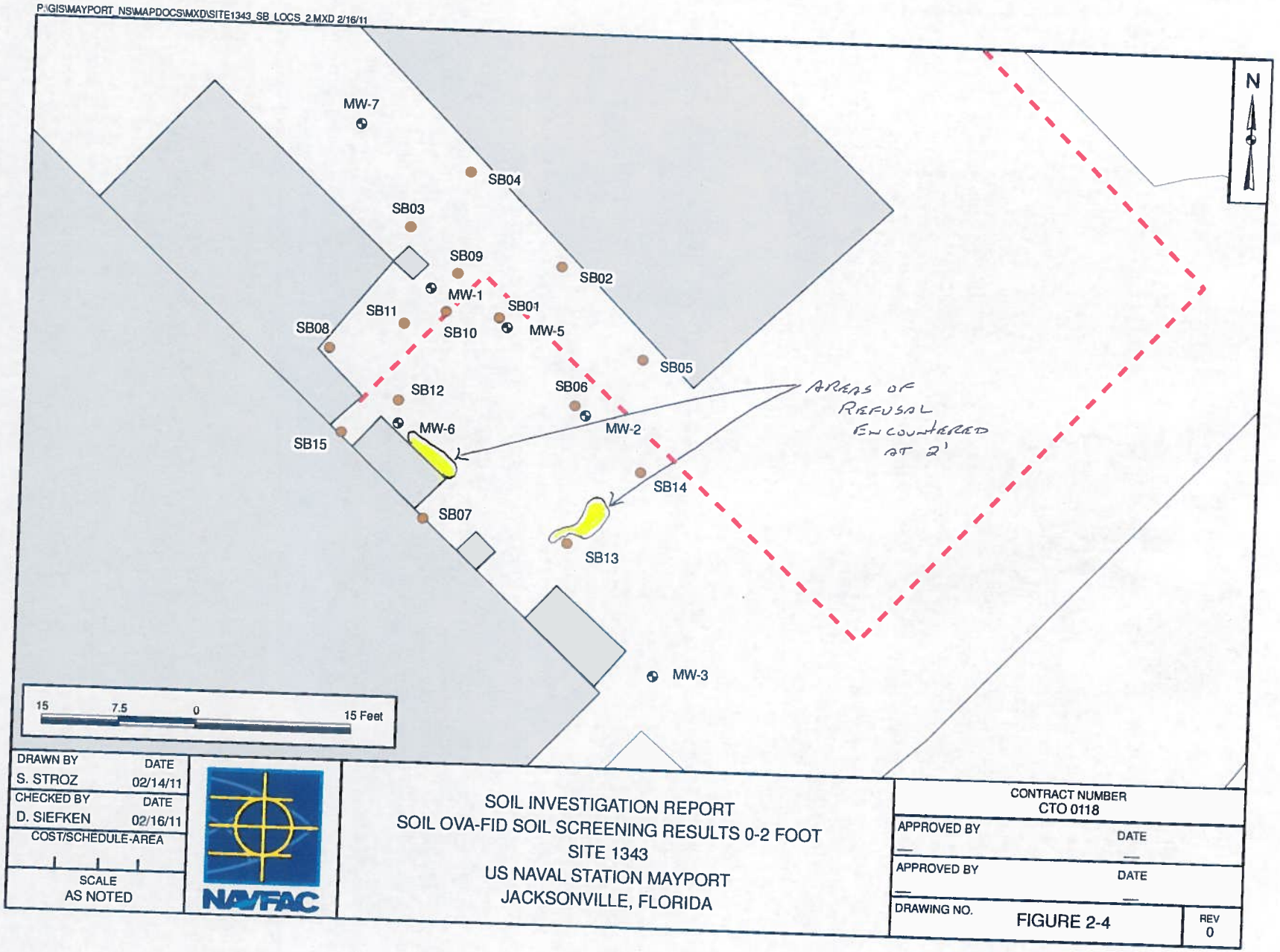
Begin to prep samples for Shipment

1400 Leave mayport for JAX office

1630 Samples at FEDEX for Shipment

TRT 2/18/11


P:\GIS\MAYPORT_NS\MAPDOCS\MXD\SITE1343_SB_LOCS_2.MXD 2/16/11
N
MW-7
SB04
SB03
SB09
SB02
MW-1
SB01
SB11
SB10
MW-5
SB08
SB05
SB06
SB12
MW-6
MW-2
SB15
SB14
SB07
SB13
MW-3
15 7.5 0 15 Feet
DRAWN BY S. STROZ DATE 02/14/11
CHECKED BY D. SIEFKEN DATE 02/16/11
COST/SCHEDULE-AREA
SCALE AS NOTED
NAVFAC
SOIL INVESTIGATION REPORT
SOIL OVA-FID SOIL SCREENING RESULTS 0-2 FOOT
SITE 1343
US NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA
CONTRACT NUMBER CTO 0118
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-4
REV 0


P:\GIS\MAYPORT_NS\MAPDOCS\MXD\SITE1343_SB_LOCS_2.MXD 2/16/11
N
MW-7
SB04
SB03
SB09
SB02
MW-1
SB11
SB01
SB08
SB10
MW-5
SB05
SB12
SB06
MW-6
MW-2
SB15
AREAS OF REFUSAL ENCOUNTERED AT 2'
SB14
SB07
SB13
MW-3
15 7.5 0 15 Feet
DRAWN BY S. STROZ DATE 02/14/11
CHECKED BY D. SIEFKEN DATE 02/16/11
COST/SCHEDULE-AREA
SCALE AS NOTED
NAVFAC
SOIL INVESTIGATION REPORT
SOIL OVA-FID SOIL SCREENING RESULTS 0-2 FOOT
SITE 1343
US NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA
CONTRACT NUMBER CTO 0118
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2-4
REV 0

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT	JOB NUMBER
Mayport NS	112602801
SUBJECT	
SW-2 Sampling	
BASED ON	**DRAWING NUMBER**
BY	**CHECKED BY** / **APPROVED BY** / **DATE**
TRO	2/16/11

WATER LEVELS

MW-6 ⟶ 4.09

MW-5 ⟶ 4.27

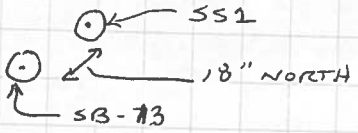
MW-2 ⟶ 4.21

~~SS~~

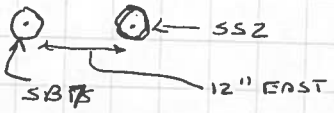
TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 3

CLIENT	JOB NUMBER	
NAVSTA Mayport	112602801	
SUBJECT		
Sample Location		
BASED ON	DRAWING NUMBER	
BY: TRT	CHECKED BY	APPROVED BY	DATE: 2/16-18/11

SS-1



SS-2



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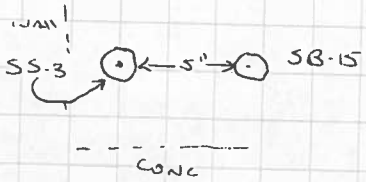
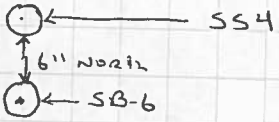
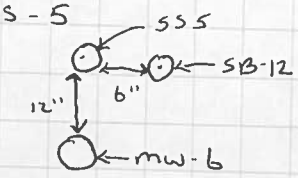


SS-4



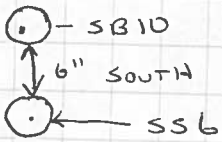
SS-5



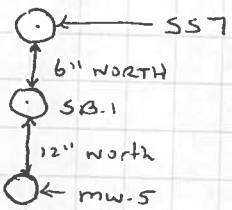
TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 2 OF 3

CLIENT	JOB NUMBER		
NAVSTA Mayport	112602801		
SUBJECT	Location Diagrams		
BASED ON		DRAWING NUMBER	
BY: JNG	CHECKED BY:	APPROVED BY:	DATE: 2/16-18/11

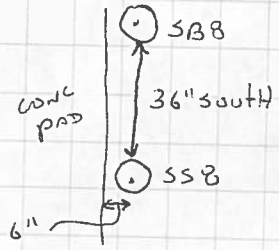
SS6



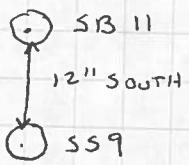
SS7



SS8



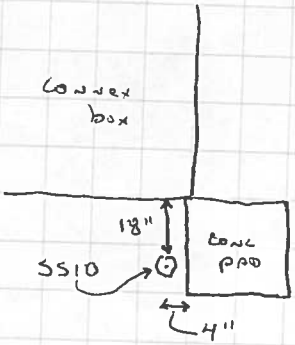
SS9



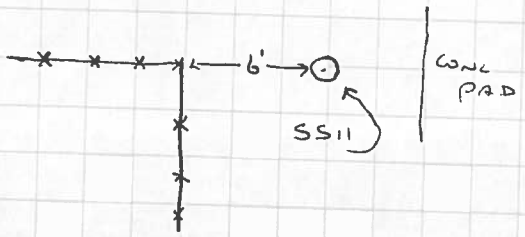
TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 3 OF 3

CLIENT	JOB NUMBER
NAVSTA mayport	112602801
SUBJECT	
Sample Locations	
BASED ON	**DRAWING NUMBER**
BY	**CHECKED BY** / **APPROVED BY** / **DATE**
JTC	2/16-18/11

SS10



SS11



TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT	JOB NUMBER	
NAVSTA mayport	112602801	
SUBJECT: Sample times		
BASED ON	DRAWING NUMBER	
BY: TRT	CHECKED BY	APPROVED BY	DATE: 2/16/11

SS1 —
- 0.5 → 1025
- 2.0 → 1030
- 4.0 → 1040
- 4.5 → 1050

SS2 -
- 0.5 → 1125
- 2.0 → 1130
- 4.0 → 1140
- 4.5 → 1145

SS3 -
- 0.5 → 1400
- 2.0 → 1410
- 4.0 → 1420
- 4.5 → 1425

SS4 -
- 0.5 → 1515
- 2.0 → 1525
- 4.0 → 1530
- 4.5 → 1535

TETRA TECH NUS, INC. **CALCULATION WORKSHEET**

PAGE 1 OF 1

CLIENT: Navsta mayport	JOB NUMBER: 112G02801
SUBJECT: Sample time.	
BASED ON:	DRAWING NUMBER:
BY: TRG / CHECKED BY:	APPROVED BY: / DATE: 2/17/11

SS-5

0.5	→	1000	Add TRPH Fractioning
2.0	→	1005	
4.0	→	1010	
4.5	→	1015	

SS-6

0.5	→	1100	Add TRPH Fractioning
2.0	→	1105	
4.0	→	1115	
4.5	→	1120	

SS7

0.5	→	1205	Add TRPH Fractioning
2.0	→	1210	
4.0	→	1220	
4.5	→	1225	

SS8

0.5	→	1400	Black, organic, sm. shells, moist, fine sand
2.0	→	1405	med brown " " " "
4.0	→	1415	med-dk brown " " "
4.5	→	1420	Dark brn (some clay) " "

* On Chain of Custody:
please contact D. Siefken for instruction on when to run SPLP.

Laurie EQD -
255-7155

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT	JOB NUMBER
NAVSTA Mayport	112602801
SUBJECT	
Sample times	
BASED ON	**DRAWING NUMBER**
BY	**CHECKED BY** / **APPROVED BY** / **DATE**
TRT	2/18/11

SS9

0.5	→	1515
2.0	→	1520
4.0	→	1530
4.5	→	1535

} 2/17/11

SS10

0.5	→	0910
2.0	→	0915
4.0	→	0925
4.5	→	0930

SS11

0.5	→	1000
2.0	→	1005
4.0	→	1015
4.5	→	1020

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 0871 | PAGE 1 OF 4

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02801	MAYPORT	DAVE SIEFKEN	904-636-6125	EMPIRICAL LABORATORIES
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		TOD TRUMBULL	904-636-6125	621 MAINSTREAM DR, Suite 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
				NASHVILLE, TN 37228

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G

PRESERVATIVE USED

TYPE OF ANALYSIS: VOC's 8260B (BTEX MBE) | 8270C PAH/FLPRO | SPLP *

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOC's 8260B (BTEX MBE)	8270C PAH/FLPRO	SPLP *						COMMENTS
2/16	1025	MPT-1343-SS1-0.5-2011-02-16	SS1	0	0.5	SO	G	1		✓							
2/16	1030	MPT-1343-SS1-2.0-2011-02-16	SS1	0.5	2.0	SO	G	4	✓	✓							
2/16	1040	MPT-1343-SS1-4.0-2011-02-16	SS1	2.0	4.0	SO	G	4	✓	✓							
2/16	1050	MPT-1343-SS1-4.5-2011-02-16	SS1	4.0	4.5	SO	G	5	✓	✓	✓						* PLEASE CONTACT D. SIEFKEN ON WHEN TO RUN SPLP
2/16	1125	MPT-1343-SS2-0.5-2011-02-16	SS2	0	1.5	SO	G	1		✓							
2/16	1130	MPT-1343-SS2-2.0-2011-02-16	SS2	0.5	2.0	SO	G	4	✓	✓							
2/16	1140	MPT-1343-SS2-4.0-2011-02-16	SS2	2.0	4.0	SO	G	4	✓	✓							
2/16	1145	MPT-1343-SS2-4.5-2011-02-16	SS2	4.0	4.5	SO	G	5	✓	✓	✓						*
2/16	1400	MPT-1343-SS3-0.5-2011-02-16	SS3	0	0.5	SO	G	1		✓							
2/16	1410	MPT-1343-SS3-2.0-2011-02-16	SS3	0.5	2.0	SO	G	4	✓	✓							
2/16	1420	MPT-1343-SS3-4.0-2011-02-16	SS3	2.0	4.0	SO	G	4	✓	✓							
2/16	1425	MPT-1343-SS3-4.5-2011-02-16	SS3	4.0	4.5	SO	G	5	✓	✓	✓						*

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	2/18/11	1500	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0872 | PAGE 2 OF 4

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112602801	MAYPORT	DAVE SIEKEN	904-636-6125	Empirical Laboratories
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
		TOD TRIMBLE	904-636-6125	621 Mainstream Dr., Suite 270
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
				Nashville, TN 37228

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2011)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									
									4	4	4							
									PRESERVATIVE USED									
									TYPE OF ANALYSIS: JOC's 8260B (Low mtbe)	8270C PAH/PLPRs	* SPLP							COMMENTS
2/16	1515	MAY-1343-554-0.5-2011-02-16	SS4	0	0.5	SO	G	1		✓								
2/16	1525	MAY-1343-554-2.0-2011-02-16	SS4	0.5	2.0	SO	G	4	✓	✓								
2/16	1530	MAY-1343-554-4.0-2011-02-16	SS4	2.0	4.0	SO	G	4	✓	✓								
2/16	1535	MAY-1343-554-4.5-2011-02-16	SS4	4.0	4.5	SO	G	5	✓	✓	✓							* Please contact D. Sieken if within to run SPLP
2/17	1000	MAY-1343-555-0.5-2011-02-17	SS5	0	0.5	SO	G	1		✓								
2/17	1005	MAY-1343-555-2.0-2011-02-17	SS5	0.5	2.0	SO	G	4	✓	✓								
2/17	1010	MAY-1343-555-4.0-2011-02-17	SS5	2.0	4.0	SO	G	4	✓	✓								
2/17	1015	MAY-1343-555-4.5-2011-02-17	SS5	4.0	4.5	SO	G	5	✓	✓	✓							*
2/17	1100	MAY-1343-556-0.5-2011-02-17	SS6	0	0.5	SO	G	1		✓								
2/17	1105	MAY-1343-556-2.0-2011-02-17	SS6	0.5	2.0	SO	G	4	✓	✓								
2/17	1115	MAY-1343-556-4.0-2011-02-17	SS6	2.0	4.0	SO	G	4	✓	✓								
2/17	1120	MAY-1343-556-4.5-2011-02-17	SS6	4.0	4.5	SO	G	5	✓	✓	✓							*

1. RELINQUISHED BY		DATE 2/17/11	TIME 1500	1. RECEIVED BY	DATE / TIME
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY	DATE / TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY	DATE / TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 0873 | PAGE 3 OF 4

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112602801	MAYPORT	DALE SICKMAN	704-636-6125	EMPIRICAL LABORATORIES
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: TOD TRUMBULL	PHONE NUMBER: 904-636-6125	ADDRESS: 621 MAINSTREAM DR, SUITE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE: NASHVILLE, TN 37228

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
										G	G	G							
									PRESERVATIVE USED										
									TYPE OF ANALYSIS	VOC's 8260 (LIST METHOD)	8270 PAH (TCLP)	* SPLP							
2/17	1205	MAY-1343-SS7-0.5-2011-02-17	SS7	0	0.5	SO	G	1		✓									
2/17	1210	MAY-1343-SS7-2.0-2011-02-17	SS7	0.5	2.0	SO	G	4	✓	✓									
2/17	1220	MAY-1343-SS7-4.0-2011-02-17	SS7	2.0	4.0	SO	G	4	✓	✓									
2/17	1225	MAY-1343-SS7-4.5-2011-02-17	SS7	4.0	4.5	SO	G	5	✓	✓	✓								* PLEASE CONTACT D. SICKMAN OF EMPIRICAL WITH TCLP RUN
2/17	1400	MAY-1343-SS8-0.5-2011-02-17	SS8	0	0.5	SO	G	1		✓									
2/17	1405	MAY-1343-SS8-2.0-2011-02-17	SS8	0.5	2.0	SO	G	4	✓	✓									
2/17	1415	MAY-1343-SS8-4.0-2011-02-17	SS8	2.0	4.0	SO	G	4	✓	✓									
2/17	1420	MAY-1343-SS8-4.5-2011-02-17	SS8	4.0	4.5	SO	G	5	✓	✓	✓								*
2/17	1515	MAY-1343-SS9-0.5-2011-02-17	SS9	0	0.5	SO	G	1		✓									
2/17	1520	MAY-1343-SS9-2.0-2011-02-17	SS9	0.5	2.0	SO	G	4	✓	✓									
2/17	1530	MAY-1343-SS9-4.0-2011-02-17	SS9	2.0	4.0	SO	G	4	✓	✓									
2/17	1535	MAY-1343-SS9-4.5-2011-02-17	SS9	4.0	4.5	SO	G	5	✓	✓	✓								*

1. RELINQUISHED BY		DATE 2/18/11	TIME 1500	1. RECEIVED BY	DATE / TIME
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY	DATE / TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY	DATE / TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 615-345-1115 ♦ (fax) 615-846-5426

13150

Send Results to:	**Send Invoice to:**
Name DAVID SIEKKEN	Name DAVID SIEKKEN
Company TOLOKO TECH MUSEUM	Company TOLOKO TECH MUSEUM
Address 8640 Philips Hwy	Address 8640 Philips Hwy
City Jacksonville FL	City Jacksonville
State, Zip FL 32256	State, Zip FL 32256
Phone 904-636-6125	Phone 904-636-6125
Fax	Fax
E-mail DAVID.SIEKKEN@TOLOKO.ORG	E-mail DAVID.SIEKKEN@TOLOKO.ORG
Project No./Name: 112602801 / MYPUM 13-13	**Sampler's (Signature):**

Analysis Requirements:

VOC's SW8260B (BTEX+MTBE)
8270C PAH / ELPAC
SPLP *

Lab Use Only:

VOA Headspace	Y	N	NA
Field Filtered	Y	N	NA
Correct Containers	Y	N	NA
Discrepancies	Y	N	NA
Cust. Seals Intact	Y	N	NA
Containers Intact	Y	N	NA

Airbill #: _____

CAR #: _____

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix	VOC's SW8260B (BTEX+MTBE)	8270C PAH / ELPAC	SPLP *	Comments	No. of Bottles	Lab Use Only Containers/Pres.
	2/18/0910	MPT-1343-SS10-0.5-2011-02-18	SO		✓			1	
	2/18/0915	MPT-1343-SS10-2.0-2011-02-18	SO	✓	✓			4	
	2/18/0925	MPT-1343-SS10-4.0-2011-02-18	SO	✓	✓			4	
	2/18/0930	MPT-1343-SS10-4.5-2011-02-18	SO	✓	✓	✓		5	
	2/18/1000	MPT-13-13-SS11-0.5-2011-02-18	SO		✓		* PLEASE CONTACT D. SIEKKEN ON WHEN TO RUN SPLP	1	
	2/18/1005	MPT-1343-SS11-2.0-2011-02-18	SO	✓	✓			4	
	2/18/1015	MPT-1343-SS11-4.0-2011-02-18	SO	✓	✓			4	
	2/18/1020	MPT-1343-SS11-4.5-2011-02-18	SO	✓	✓	✓		5	

Sample Kit Prep'd by: (Signature) EMPIRICAL	Date/Time —	Received By: (Signature)
Relinquished by: (Signature)	Date/Time 2/19/11 1500	Received By: (Signature)
Relinquished by: (Signature)	Date/Time	Received By: (Signature)
Received for Laboratory by: (Signature)	Date/Time	*Temperature*

REMARKS:

Details:

Page 4 of 4

Cooler No. ____ of ____

Date Shipped _____

Shipped By _____

Turnaround _____

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343 - SS1 - 0.5 - 2011-02-16
Sample Location: SS1
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1025	0 - 0.5	very dk brown/ black	silty sand / organic - sl. moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	~~3 vials~~		~~Empirical~~
Petroleum group 8270	glass	4 oz		Empirical
TRPH — only	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Sample ID No.: MPT-1343-SS1-2.0-20111-02-16
Sample Location: SS1
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1030	0.5-2.0'	dk/med brown	Fine-medium grained sand
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Sample ID No.: MPT-1343-SS1-4.0-2011-02-16
Sample Location: SS1
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1040	2.0-4.0'	medium brown	Fine-medium grained sand some sm shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS1-4.5-20110216
Sample Location: SS1
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1050			
Method: grab	4.0 - 4.5'	dark brown	medium grained sand / silts + clay
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS2-0.5-2011-02-16
Sample Location: SS2
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1125	0 - 0.5'	dark brown	organic - fine sand w/ silt moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	~~3 vials~~		Empirical
Petroleum group 8270 only	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS2-2.0-2011-02-16
Sample Location: SS2
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1130	~~2.0 - 4.0~~ 0.5 - 2.0	medium brown	Fine - medium grained SAND w/ shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS2-4.0-2011-02-16
Sample Location: SS2
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[✓] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1140	2.0'-4.0'	med. brown/grey	medium grained sand w/ alot of small shell material
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS2-4.5-2011-02-16
Sample Location: SS2
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1145	4.5' ~~dk brown~~	dk brown	medium grained sand w/ sm. shells + clay nodules (green)
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS3-0.5-2010-02.16
Sample Location: SS3-1343
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400			
Method: grab	0 - 0.5	DARK BROWN	FINE SAND. ORGANIC - SOME SHELLS
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	~~3 vials~~		Empirical
Petroleum group 8270 only	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS3-2.0-2011-02-16
Sample Location: SS3
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1410	0.5 – 2.0	med - Brown	Fine - med grained sand, sm. shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS3-4.0-20111-02-16
Sample Location: SS3
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1420	2.0 - 4.0'	med brown/grey	med. Grained Sand, some clay
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS3-4.5-20110216
Sample Location: SS3
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1425	4.0-4.5	dk brown/grey	med-fine grained sand, shells some clay
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical
3PAH				

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS4-0.5-2011-02-16
Sample Location: SS4
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	0 - 0.5'	DK. brown	Fine grained Sand, organic, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group ~~VOC~~ only	glass	~~3 vials~~		Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS4-2.0-2011-02-16
Sample Location: SS4
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[✓] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1525	0.5–2.0'	med Brown/grey	med grained Sand, shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS4.4.0-2011-02-16
Sample Location: SS4 - 1343
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1530	2.0 - 4.0'	lt-med brown/grey	medium grained sand, sm. shells, damp
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS4-4.5-2011-02-16
Sample Location: SS4
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/16/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1535	4.0-4.5'	dk.-med brown some grey	medium grained sand, shells, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical
SPLP				

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SSS-0.5-201-02-17
Sample Location: SSS
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1000	0 - 0.5'	Black/dk brown	Fine sand/organic, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	~~3 vials~~		Empirical
Petroleum group 8270 (only)	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[X] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS5-2.0-2011-02-17
Sample Location: SS5
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1005			
Method: grab	0.5-2.0	Dark brown	Fine-med grained Sand, Some shells moist
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS5-4.0-2011-02-17
Sample Location: SS5
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1010	2.0 - 4.0'	med brown/some grey	Some odor, poss. petrol Fine-med grained sand, clay inclusions, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS5-4.5-2011-02-17
Sample Location: SS5
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1015	4.0-4.5'	DARK BROWN/ DARK GREY	CLAY inclusions, petrol odor. med gra-ed sand. moist.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS6-0.5-2011-02-17
Sample Location: SS6
Sampled By: TT & DS
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1100	0 - 0.5'	Dark Brown/ Black	Organic/fine sand, moist, some clay
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group ~~VOC~~	glass	~~3 vials~~		Empirical
Petroleum group 8270 → only	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SSb-2.0-2011-02-17
Sample Location: SSb
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[✓] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1105	0.5-2.0'	Dark-medium gray	medium grained sand, sm shells, sl. moist.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS6-4.0-2011-02-17
Sample Location: SS6
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[✓] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1115	2.0 - 4.0'	medium brown, some grey	medium/coarse sand, abundant shells, wet, moist.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-556-4.5-2011-02-17
Sample Location: 556
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1120	4.0-4.5'	Dark Grey	Coarse Sand & Clay Inclusions, SL. Odor (gross petrol) moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Sample ID No.: MPT-1343-SS7-0.5-2011-02-17
Sample Location: SS7
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1205	0 - 0.5	DARK BROWN/ BLACK	ORGANIC/FINE GRAINED SAND, some shells, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum ~~group~~ VOC	glass	3 vials		Empirical
Petroleum group 8270 only	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable: MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS7-2.0-2011-02-17
Sample Location: SS7
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[✓] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1210	0.5-2.0'	DARK→MED BROWN	FINE-MED GRAINED SAND, SOME CLAY. SOME SHELLS. SL. MOIST
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Sample ID No.: MPT-1343-357-4.0-20[illegible]-02-17
Sample Location: 357
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1220	2.0-4.0'	medium brown/ some dk grey	medium grained sand w/ clay inclusions (grey) sl. moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS7-4.5-2011-02-17
Sample Location: SS7
Sampled By: TT & DS
C.O.C. No.:

Type of Sample:
[✓] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/17/11 Time: 1225 Method: grab Monitor Reading (ppm 0	4.0 - 4.5'	DARK GREY	CLAY W/SOME COARSE SAND very moist. Some odor (poss petro.)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS8-0.5-20111-02-17
Sample Location: SS8
Sampled By: TT
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400	0 - 0.5	med gray/brown	Organic-Fine sand some shells moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group ~~VOC~~	glass	~~3 vials~~		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH	glass	same 4 oz		Empirical

0-1.5

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS8-2.0-2011-02-17
Sample Location: SS8
Sampled By: TT
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1405	0.5-2.0'	med-dk grey	Fine-med Sd-S, Shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SSB-4.0-2011-02-17
Sample Location: SSB
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1415	2.0 - 4.0'	med brown / med grey	Fine-med sand, abundant shells, some clay
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS8-4.5-2011-02-17
Sample Location: SS8
Sampled By: TT
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1420	4.0-4.5	dk brown/ dk grey	clay inclusions, coarse sand, shells, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS9-0.5-2011-02-17
Sample Location: SS9
Sampled By: TT
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	0 - 0.5'	dark brown black	organic, small shells, some clay, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	~~3 vials~~		Empirical
Petroleum group 8270 only	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS9-2.0-20111-02-17
Sample Location: SS9
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1520	0.5 - 2.0'	med brown	med-coarse sand, abundant silts, sl. moist.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS9-4.0-2011-02-17
Sample Location: SS9
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1530	2.0 - 4.0'	dk brown / dk grey	some clay inclusions, med grain sand, sl. moist.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS9-4.5-2011-02-17
Sample Location: SS9
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/17/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1535	4.0 - 4.5' (dk brown) dk grey	dk brown/ dk. grey	clay nodules / coarse sand, very moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS10-0.5-2011-02-18
Sample Location: SS10
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0910	0 – 0.5'	dk. brown	organic, abundant sm. shells, Fine-med grain sand. moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	~~3 vials~~		Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH – 0-5	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS10-2.0-2011-02-18
Sample Location: SS10
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0915	0.5'-2.0'	med brown/ some grey	Fine-med grain sand, shells, some large, clay inclusions
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group/ VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343 - SS10-4.0-2011-02-13
Sample Location: SS10
Sampled By: TT
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/13/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0925	2.0 - 4.0'	med. dk brown	some clay (grey) inclusions, med grain sand, silt. moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS1D-4.5-2011-02-18
Sample Location: SS1D
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0930	4.0-4.5'	dk gres.	clay (grey marine) some med grain sand, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS11-0.5-2011-02-18
Sample Location: SS11
Sampled By: TT
C.O.C. No.:

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[x] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1000	0.-0.5'	dk grey/ black	organic, fine sand, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	~~3 vials~~		Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS11-2.0-2011-02-18
Sample Location: SS11
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1005	0.5-2.0'	med brown	abundant shells, Fine-med sand, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS11-4.0-2011-02-18
Sample Location: SS11
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1015	2.0'-4.0'	med dk brown	med grained sand, some small shells, some clay, moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS11-4.5-2011-02-18
Sample Location:
Sampled By: TT
C.O.C. No.:

- [ ] Surface Soil (SS)
- [x] Subsurface Soil (SU)
- [ ] Sediment (SD)
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

Date: 2/18/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1020	4.0'-4.5'	dark brown some gray	med-coarse sand, w/ clay inclusions, no odor, very moist
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH	glass	same 4 oz	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

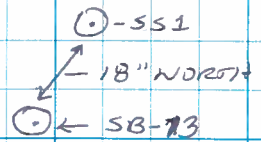
MS/MSD	Duplicate ID No.:

Signature(s):

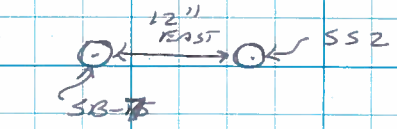
NAVSTA MAYPORT SITE 1343 Sampling 2/18/11

Sample Location Diagrams for Event 2/16-2/18/11

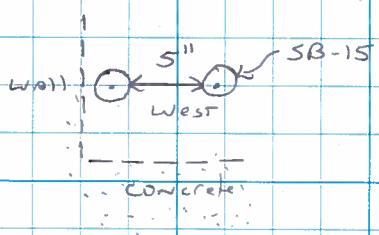
SS1



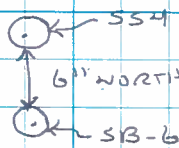
SS2



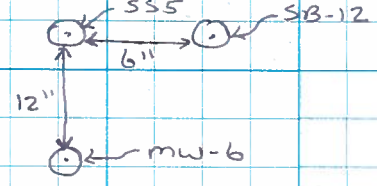
SS3



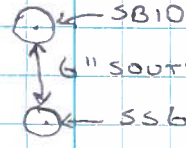
SS4



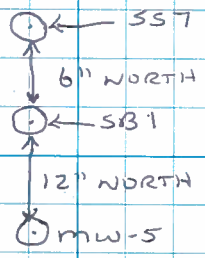
SS5



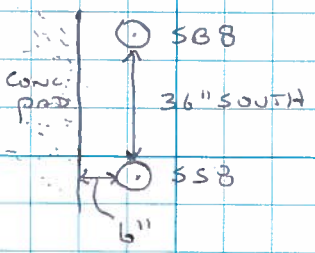
SS6



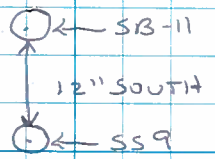
SS7



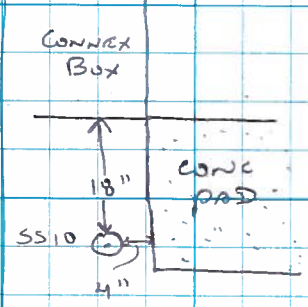
SS8



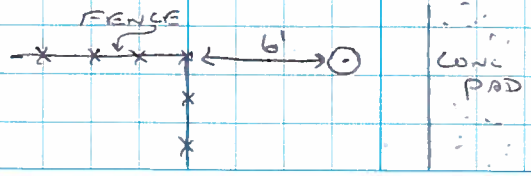
SS9



SS10



SS11



Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343 SS12-20110701-
Sample Location: SS12
Sampled By: DS
C.O.C. No.:

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0915	0 2'	Brown	Fine to med Sand, Shell hash dry.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Select ~~Petroleum group VOC~~ Petroleum group 8270 ~~TRPH Fraction~~ BNP	glass	3 vials	X	Empirical
	glass	4 oz		Empirical
	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS13-20110701-0
Sample Location: ~~SS13~~ SS13
Sampled By: DS
C.O.C. No.:

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0930	2'	Brown	Sand. Fine to med. shell hash, some silt
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

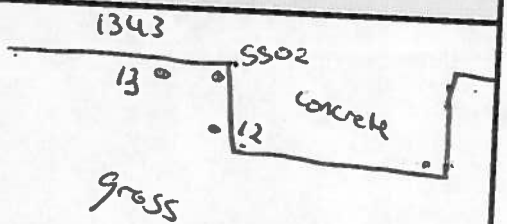
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Select ~~Petroleum group VOC~~ Petroleum group 8270 ~~TRPH Fraction~~	glass	3 vials		Empirical
	glass	4 oz	⊕	Empirical
	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

B a P only

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS14-20110701
Sample Location: SS14
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0933	0.5	Grey	Fine Sand & Silts, some organics
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

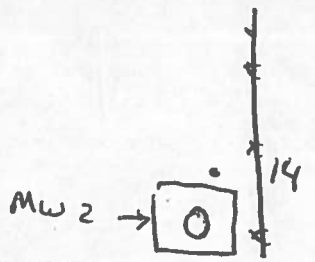
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
BaP	glass	~~3 vials~~	X	Empirical
~~Petroleum group VOC~~	glass	4 oz		Empirical
Petroleum group 8270 Select	glass	~~4~~ oz		Accutest
~~TRPH Fraction~~				

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): RL

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS15-2011 0701
Sample Location: SS15
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0935	0.5	Dk Gray/brown	fine silty Sand dry
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

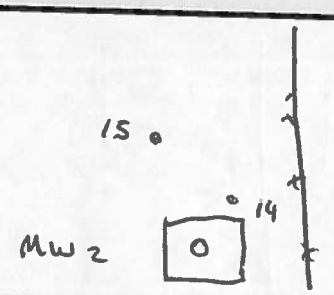
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Select ~~Petroleum group VOC~~ Petroleum group 8270 ~~TRPH Fraction~~	glass	3 vials		Empirical
	glass	4 oz	✓	Empirical
	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

B(a) P only

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

RL

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS16-2011 0701-0.5
Sample Location: SS16
Sampled By: DS
C.O.C. No.:

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0940	0.5	Brown	Silty fine, some organics
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

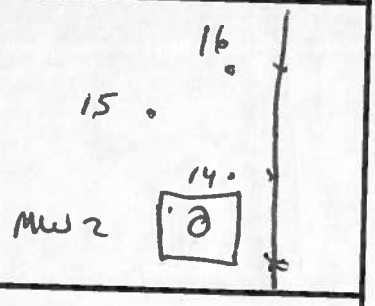
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
~~TRPH Fraction~~	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

BaP only

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS17-20110701-0
Sample Location: SS17
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0945	0.5	Blk	Fine Sands w/ some organics
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

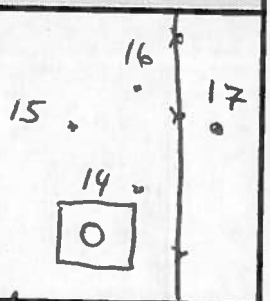
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Select ~~Petroleum group VOC~~ Petroleum group 8270 B(a)P ~~TRPH Fraction~~	glass	3 vials		Empirical
	glass	4 oz	(E)	Empirical
	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS18-20110701-0.5
Sample Location: SS18
Sampled By: DS
C.O.C. No.:

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1035	0.5	Black	Organics, Fine Sand. Dry
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

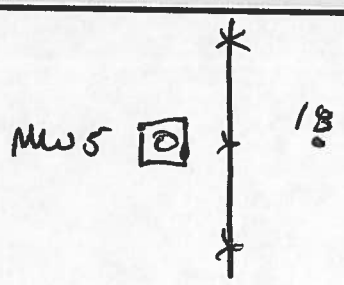
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz	X	Empirical
~~TRPH Fraction~~	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

B(a) P only

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS/B-1343-201 0701-2
Sample Location: SS/B
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1045	2	Brown	Sand, Shell frech, Some silt fine to med.
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

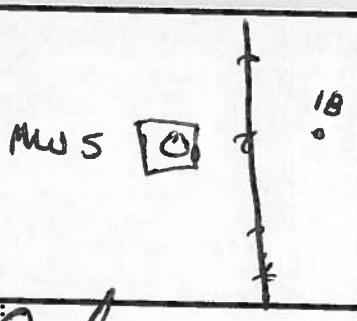
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH Fraction	glass	4 oz	✓	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS18-20110701-04
Sample Location: SS18
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1000	4'	Brown	Some moisture, Silts, Fine Sand trace clay
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

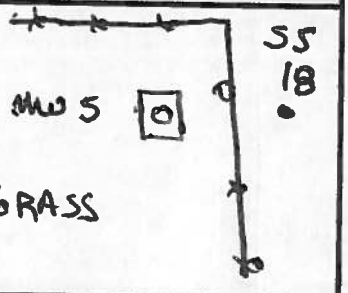
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH Fraction	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

RPL

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS18-20110701 4.5
Sample Location: SS18
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1020	4.5	Brown	Shell hash fine toned sand moist. No Petro odor
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

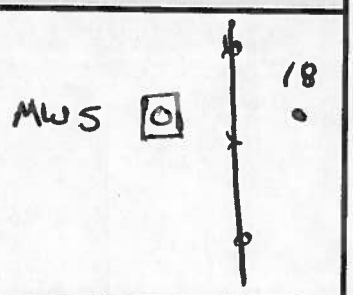
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH Fraction	glass	4 oz	✓	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS19-20110701 05
Sample Location: SS19
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1100	0.5	Brown	organics, fine to med Sand Dry, Shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

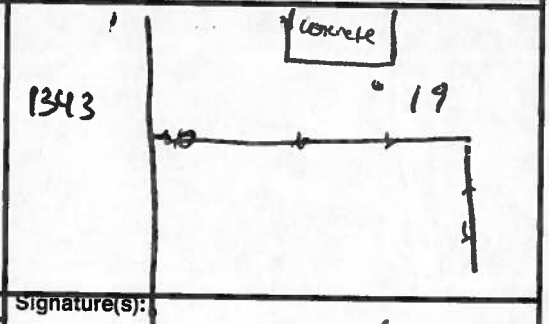
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz	(D)	Empirical
TRPH Fraction	glass	4 oz	(D)	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): RPL

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS19-20110701-
Sample Location: SS19
Sampled By: DS
C.O.C. No.:

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1105	2	Brownish gray	Fine to med sand, shells some silts. Dry
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

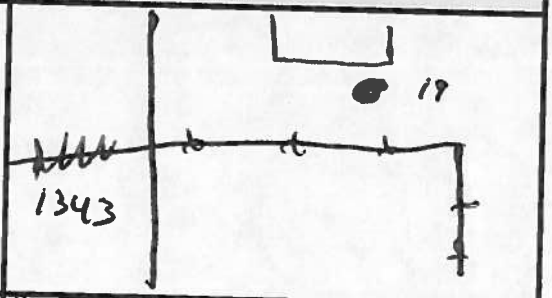
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH Fraction	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS19-20110701-4
Sample Location: SS19
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1115	4	Grey	Fine to Med Sand
Method: grab			Some Moisture
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

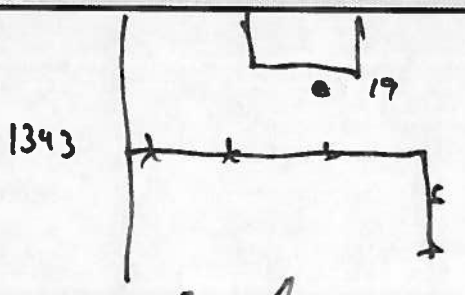
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH Fraction	glass	4 oz	✓	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

Sample ID No.: MPT-1343-SS19-2011 0701-4..
Sample Location: SS19
Sampled By: DS
C.O.C. No.:

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1130	4.5	Brown	moist, Shell hash, fine to med Soil
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

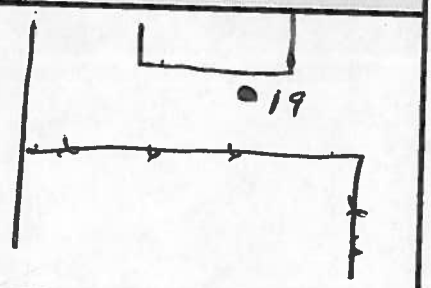
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH Fraction	glass	4 oz	✓	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS20-20 10701-0
Sample Location: SS20
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1140	0.5	Brown	fine to med Sand Shells, Dry
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

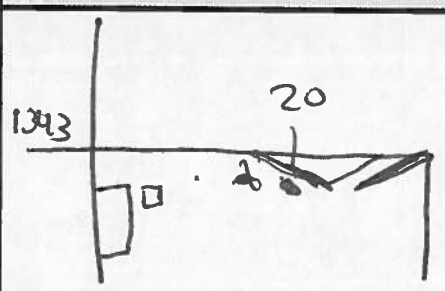
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	3 vials	(3)	Empirical
Petroleum group 8270	glass	4 oz	(1)	Empirical
TRPH Fraction	glass	4 oz	(1)	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS20-20110701-2
Sample Location: SS 20
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-01-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1145	2.0	Gray & Brown	Fine to Med Sand some Clay Dry
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

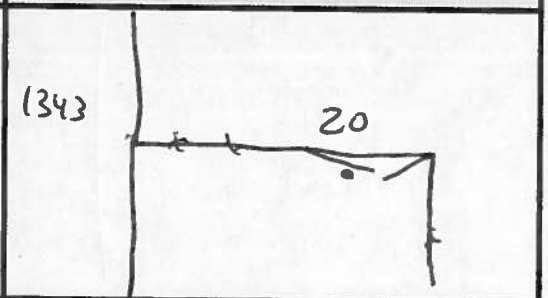
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz		Empirical
TRPH Fraction	glass	4 oz		Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS20 20110701-4.0
Sample Location:
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1210	4.	DK grey	moist Retro odor Sands, Shells
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

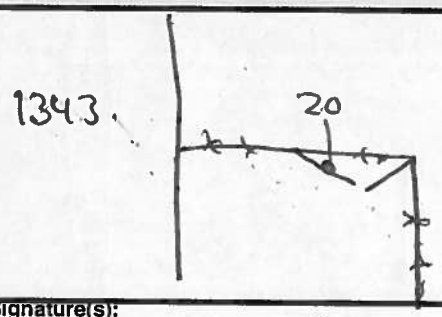
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH Fraction	glass	4 oz	✓	Accutest

OBSERVATIONS / NOTES:

STOP Sampling At 3 Ft Black Retro Do not SAMPLE

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

SAMPLED, DK grey Retro Stained

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SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343 SS20-20110701-4.5
Sample Location:
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1220	4.5	GRAY	Retro odor
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

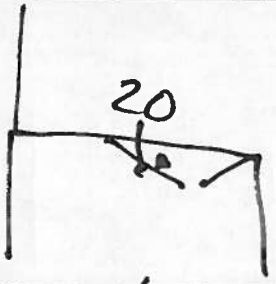
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	X	Empirical
Petroleum group 8270	glass	4 oz	X	Empirical
TRPH Fraction	glass	4 oz	X	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS21-20110701-0.5
Sample Location:
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1230	0.5'		Sand & some organics
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

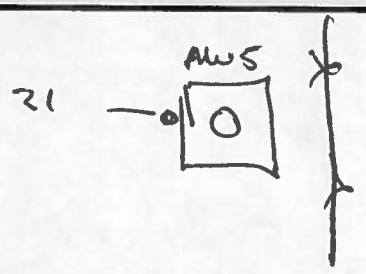
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	3 vials		Empirical
Petroleum group 8270	glass	4 oz	X	Empirical
TRPH Fraction	glass	4 oz	X	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS 21 - 200 11 0701 - 2
Sample Location: SS21
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7-1-11 Time: Method: grab Monitor Reading (ppm 0	2	Brown	Fine to med Sand Some shells

COMPOSITE SAMPLE DATA:

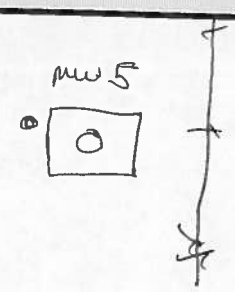
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	⊗	Empirical
Petroleum group 8270	glass	4 oz	⊗	Empirical
TRPH Fraction	glass	4 oz	⊗	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS21-2011 0701-4
Sample Location: SS 21
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-01-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1310	4	Brownish Grey	moist fine to mid Sand. Retro odor
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

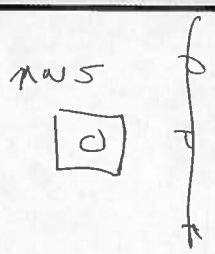
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	>	Empirical
Petroleum group 8270	glass	4 oz	>	Empirical
TRPH Fraction	glass	4 oz	>	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS21-20110701-4.5
Sample Location: SS21
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-01-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1380	4.5	Grey	fine to med Sand moist · Petro odor
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

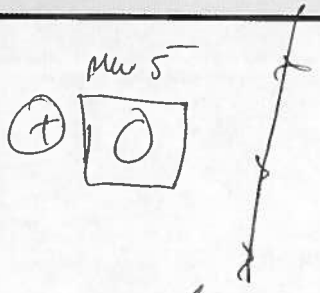
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials	✓	Empirical
Petroleum group 8270	glass	4 oz	✓	Empirical
TRPH Fraction	glass	4 oz	✓	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-1343-2011-0701-4
Sample Location: SS06
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1310	4	Brownish Gray	fine to med Sand Damp
Method: grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

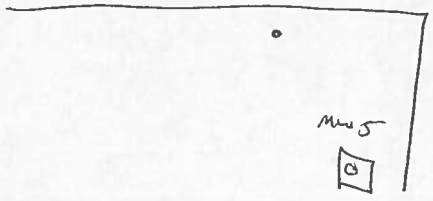
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
~~Petroleum group VOC~~	glass	3 vials		Empirical
~~Petroleum group 8270~~	glass	4 oz		Empirical
TRPH Fraction	glass	4 oz	(A)	Accutest

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Site 1343
Project No.: 112g02801

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-1343-SS06-20110701-2
Sample Location: SS06
Sampled By: DS
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-1-11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1310	4	Brown	fine to med Sand
Method: grab			Dry
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

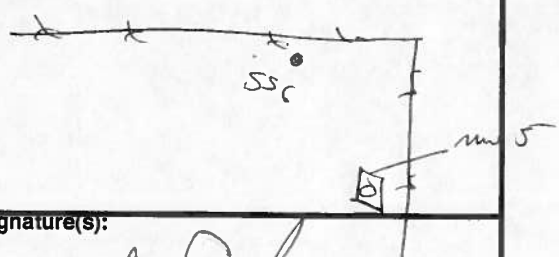
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements		Collected	LAB
Petroleum group VOC	glass	3 vials		Empirical
~~Petroleum group 8270~~	glass	4 oz		Empirical
TRPH Fraction	glass	4 oz	X	Accutest

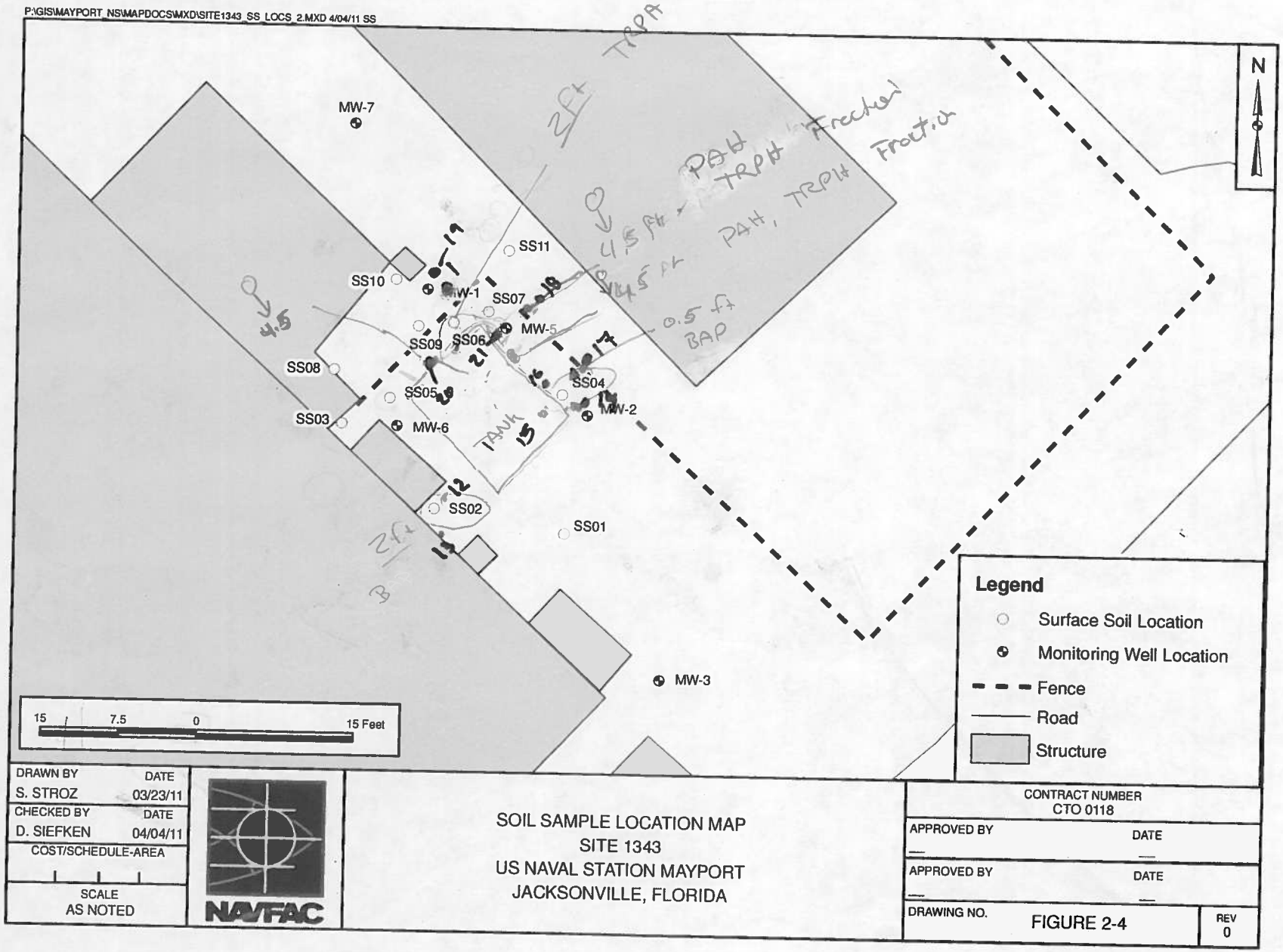
OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):



DRAWN BY: S. STROZ	DATE: 03/23/11
CHECKED BY: D. SIEFKEN	DATE: 04/04/11
COST/SCHEDULE-AREA	
SCALE: AS NOTED	

NAVFAC

SOIL SAMPLE LOCATION MAP
SITE 1343
US NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER: CTO 0118	
APPROVED BY: —	DATE: —
APPROVED BY: —	DATE: —
DRAWING NO.: FIGURE 2-4	REV: 0

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER NO. 2025 | PAGE 1 OF 2

PROJECT NO: 25501 112S0 2213	FACILITY: Site 1343	PROJECT MANAGER Mark Peterson	PHONE NUMBER 904-334-7260	LABORATORY NAME AND CONTACT: EMPIRICAL / Brian R.
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER David Siefken	PHONE NUMBER 904-334-7260	ADDRESS 621 Mainstream Dr, suite 270
		CARRIER/WAYBILL NUMBER 8427 1834 4588 FedEx		CITY, STATE Nashville, TN 37228

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: Select PAH - BaP equiv	8270 PAH	VOC 8260	COMMENTS
	0915	MPT-1343-SS12-20110701	-02		2	SO		1	G	—	X			Cool to 4°C
	0930	MPT-1343-SS13-20110701	-02		2	SO		1			X			Select PAH - BaP Equivilants
	0933	MPT-1343-SS14-20110701	-0.5		0.5	SO		1			X			
	0935	MPT-1343-SS15-20110701	-0.5		0.5	SO		1			X			
	0940	MPT-1343-SS16-20110701	0.5		0.5	SO		1			X			
	0945	MPT-1343-SS17-20110701	0.5		0.5	SO		1			X			
	1000	MPT-1343-SS18-20110701	-4		4	SO		4			X	1	3	
	1020	MPT-1343-SS18-20110701	-4.5		4.5	SO		4			X	1	3	
	1035	MPT-1343-SS18-20110701	-0.5		0.5	SO		4			X	1		
	1045	MPT-1343-SS18-20110701	-2		2	SO		1				1	3	
	1100	MPT-1343-SS19-20110701	-0.5		0.5	SO		1				1		
	1105	MPT-1343-SS19-20110701	-2		2	SO		4				1	3	
	1115	MPT-1343-SS19-20110701	4		4	SO		4				1	3	

1. RELINQUISHED BY	DATE 7-1-11	TIME 1600	1. RECEIVED BY
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 26388 | PAGE 2 OF 2

PROJECT NO: 2801 11290 ~~2267~~	FACILITY: Site 1343	PROJECT MANAGER: Mark Peterson	PHONE NUMBER: 904-334-7260	LABORATORY NAME AND CONTACT: EMPIRICAL / Brian R
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: Dave Siefken	PHONE NUMBER: 904-334-7260	ADDRESS: 621 Mainstream Dr, Ste 270
		CARRIER/WAYBILL NUMBER: 8427 1834 4588 Fex Ex		CITY, STATE: Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G

PRESERVATIVE USED:

TYPE OF ANALYSIS: 8270 c PAH, VOC 8260

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	8270 c PAH	VOC 8260							COMMENTS
7/1	1130	MPT-1343-SS19-20110701-4.5			4.5	SO		4	1	3							Cool to 4°C
	1140	MPT-1343 SS20-20110701-0.5			0.5	SO		1	1								
	1145	MPT-1343 SS20-20110701-2.0			2.0	SO		4	1	3							
	1210	MPT-1343-SS20-20110701-4.0			4.0	SO		4	1	3							
	1220	MPT-1343 SS20-20110701-4.5			4.5	SO		4	1	3							
	1230	MPT-1343-SS21-20110701-0.5			0.5	SO		1	1								
	1245	MPT-1343-SS21-20110701-2			2	SO		4	1	3							
	1310	MPT-1343-SS21-20110701-4			4	SO		4	1	3							
	1330	MPT-1343-SS21-20110701-4.5			4.5	SO		4	1	3							
	0000	Trip Blank								2							

1. RELINQUISHED BY [signature]	DATE 7-1-11	TIME 1600	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS 001

TETRA TECH NUS, INC. (MAYPORT) CHAIN OF CUSTODY | NUMBER No. 2228 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112502801	Site 1343	Mark Peterson	904 334-7260	Accutest / Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: David Siefken	PHONE NUMBER: 904-334-7260	ADDRESS: 4405 Vineland Rd CT 15
		CARRIER/WAYBILL NUMBER		CITY, STATE: Orlando FL

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TRPH Fraction (MADEP)	COMMENTS
7/1	1000	MPT-1343-SS18-20110701	1-4		4	SO		1			X	Cool to 4°C
	1020	MPT-1343-SS18-20110701	-4.5		4.5			1			X	
	1035	MPT-1343-SS18-20110701	-0.5		0.5			1			X	
	1045	MPT-1343-SS18-20110701	-2.0		2.0			1			X	
	1100	MPT-1343-SS19-20110701	-0.5		0.5			1			X	
	1105	MPT-1343-SS19-20110701	-2.0		2.			1			X	
	1115	MPT-1343-SS19-20110701	-4.0		4			1			X	
	1130	MPT-1343-SS19-20110701	-4.5		4.5			1			X	
	1140	MPT-1343-SS20-20110701	-0.5		0.5			1			X	
	1145	MPT-1343-SS20-20110701	-2.0		2.0			1			X	
	1210	MPT-1343-SS20-20110701	-4.0		4.0			1			X	
	1220	MPT-1343-SS20-20110701	-4.5		4.5			1			X	

1. RELINQUISHED BY	DATE 7-5-11	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. (Mayport) CHAIN OF CUSTODY | NUMBER № 2229 | PAGE ___ OF ___

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112g02801	Site 1343	Mark Peterson	904-334-7260	Accutest/Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		David Siefken	904-334-7260	4405 Vineland Rd CT-15
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Orlando, FL

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TRPH-Fractions (MADEP)	COMMENTS
7/1	1230	MPT-1343-SS21-20110701-0.5			0.5	SO		1	G		X	Cool to 4°C
	1245	MPT-1343-SS21-20110701-2			2			1	G		X	
	1255	MPT-1343-SS6-20110701-2			2			1	G		X	
	1200	MPT-1343-SS6-20110701-4			4			1	G		X	
	1310	MPT-1343-SS21-20110701-4			4			1	G		X	
	1330	MPT-1343-SS21-20110701-4.5			4.5			1	G		X	

1. RELINQUISHED BY	DATE 7-5-11	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

ATTACHMENT 2

SOIL LABORATORY ANALYTICAL REPORTS

ANALYTICAL SUMMARY DATA PACKAGE
SDG # CTOJM33_007

PROJECT NAME: NAS MAYPORT CTO JM33 2010
PROJECT LOCATION: MAYPORT, FLORIDA
CONTRACT #: N62470-08-D-1001

SUBMITTAL TO:
Tobrena Sedlmeyer
Tetra Tech NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Brian Richard
Tel (615)345-1115
Fax (866)417-0548
Email: brichard@empirlabs.com

Original Report Date: March 22, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 301

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

Table of Contents

#	Description	Page No.
1	Cover Page	1
2	Table of Contents	2
3	Case Narrative	3
4	Sample Receipt Information Chain of Custody Forms Sample Receipt Confirmations WorkOrder Summary Sample Delivery Group (SDG) Sheets	9
5	Data for SW8260B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	24
6	Data for SW8270C Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	104
7	Data for FLPRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	173
8	Data for FLPRO SPLP Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	233
9	Data for MAEPH Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	250

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. SPLP analyses on samples 1102216-04, -08, -12, -16 and -20 were indicated on the COC with hold until requested. They were not requested and are not included in this report. Sample 1102216-24 was taken off hold for FLPRO SPLP by the client and is included in this report. Samples 1102216-13, 20, and -24 were requested for MAEPH. This analysis is outside DoD certification. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The continuing calibration verifications 1B05601-CCV1 and 1B05701-CCV1 exceeded criteria with a positive bias for Methyl t-Butyl Ether.

No additional anomalies or deviations are noted and the proper data qualifiers have

been applied.

SW8270C:
The matrix spikes associated to sample 1102216-01 exceeded relative percent difference criteria for Indeno(1,2,3-cd)pyrene.

The internal standard Perylene-d12 exceeded criteria with a negative bias in sample 1102216-04, -06, -12, and -13.

The continuing calibration verifications exceeded criteria in 1C06916-CV1 with a negative bias for Benzo(b)fluoranthene and in 1C07040-CCV1 with a negative bias for Benzo(g,h,i)perylene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

FLPRO:
The surrogates 2-Fluorobiphenyl and o-Terphenyl exceeded criteria with a positive bias in the following diluted samples: 1102216-22, -23, and -24. The retention time window was exceeded for the surrogate 2-Fluorobiphenyl in 1B22028-BLK1, 1B26009-BLK1, 1102216-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, and -20. The retention time window was exceeded for the surrogate o-Terphenyl in 1B22028-BLK1, 1102216-11, -12, -15, and -16. The result bias due to the retention time shift was determined to be negligible for all affected samples and batch QC.

The matrix spikes associated to sample 1102216-01 exceeded criteria with a negative bias for Petroleum Range Organics.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

FLPRO SPLP:
The surrogates 2-Fluorobiphenyl and o-Terphenyl exceeded criteria with a negative bias in sample 1102216-24.

Sample 1102216-24 was requested by the client for FLPRO SPLP outside of the extraction EPA recommended holding time.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

MAEPH:
The surrogates o-Terphenyl and 1-Chlorooctadecane exceeded criteria with a negative bias in sample 1102216-03. The surrogate 1-Chlorooctadecane was diluted out in sample 1102216-24.

The initial calibration verification 1C06612-ICV1 exceeded criteria with a positive bias for C19-C36 Aliphatics.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is “V”.**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is “L”.**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 0871 | **PAGE** 1 **OF** 4

PROJECT NO: 112G02801	**FACILITY:** MAYPORT	**PROJECT MANAGER** DAVE SIEFKEN	**PHONE NUMBER** 904-636-6125	**LABORATORY NAME AND CONTACT:** EMPIRICAL LABORATORIES
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER** TOD TRUMBULL	**PHONE NUMBER** 904-636-6125	**ADDRESS** 621 MAINSTREAM DR, SUITE 270
		CARRIER/WAYBILL NUMBER		**CITY, STATE** NASHVILLE, TN 37228

STANDARD TAT ☑
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2011)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: VOC's 8260B (LIST: MBE)	8270C PAH/FLPRO	SPLP *	COMMENTS	
									G						
2/16	1025	MPT-1343-SS1-0.5-2011-02-16	SS1	0	0.5	SO	G	1			✓			1102216-01	
2/16	1030	MPT-1343-SS1-2.0-2011-02-16	SS1	0.5	2.0	SO	G	4		✓	✓				-02
2/16	1040	MPT-1343-SS1-4.0-2011-02-16	SS1	2.0	4.0	SO	G	4		✓	✓				-03
2/16	1050	MPT-1343-SS1-4.5-2011-02-16	SS1	4.0	4.5	SO	G	5		✓	✓	✓		* PLEASE CONTACT D. SIEFKEN ON WHEN TO RUN SPLP	-04
2/16	1125	MPT-1343-SS2-0.5-2011-02-16	SS2	0	0.5	SO	G	1			✓				-05
2/16	1130	MPT-1343-SS2-2.0-2011-02-16	SS2	0.5	2.0	SO	G	4		✓	✓				-06
2/16	1140	MPT-1343-SS2-4.0-2011-02-16	SS2	2.0	4.0	SO	G	4		✓	✓				-07
2/16	1145	MPT-1343-SS2-4.5-2011-02-16	SS2	4.0	4.5	SO	G	5		✓	✓	✓		*	-08
2/16	1400	MPT-1343-SS3-0.5-2011-02-16	SS3	0	0.5	SO	G	1			✓				-09
2/16	1410	MPT-1343-SS3-2.0-2011-02-16	SS3	0.5	2.0	SO	G	4		✓	✓				-10
2/16	1420	MPT-1343-SS3-4.0-2011-02-16	SS3	2.0	4.0	SO	G	4		✓	✓				-11
2/16	1425	MPT-1343-SS3-4.5-2011-02-16	SS3	4.0	4.5	SO	G	5		✓	✓	✓		*	-12

1. RELINQUISHED BY	DATE 2/18/11	TIME 1500	1. RECEIVED BY	DATE 2/21/11	TIME 845
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

CTOJM33_007 Summ Package 10

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0872 | PAGE 2 OF 4

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02801	MAYPORT	DAVE SIEFKEN	904-636-6125	Empirical Laboratories
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: TOD TRUMBULL	PHONE NUMBER: 904.636.6125	ADDRESS: 621 Mainstream Drive, Suite 270
		CARRIER/WAYBILL NUMBER		CITY, STATE: Nashville, TN 37228

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: VOC's 8260B (BTEX only)	8270C PAH / FL PRS	* SPLP	COMMENTS
									G		G	G	G	
2/16	1515	MPT-1343-SS4-0.5-2011-02-16	SS4	0	0.5	SO	G	1				✓		11022116 -13
2/16	1525	MPT-1343-SS4-2.0-2011-02-16	SS4	0.5	2.0	SO	G	4		✓	✓	✓		-14
2/16	1530	MPT-1343-SS4-4.0-2011-02-16	SS4	2.0	4.0	SO	G	4		✓	✓	✓		-15
2/16	1535	MPT-1343-SS4-4.5-2011-02-16	SS4	4.0	4.5	SO	G	5		✓	✓	✓	✓	* PLEASE CONTACT D. SIEFKEN ON WHETHER TO RUN SPLP -16
2/17	1000	MPT-1343-SS5-0.5-2011-02-17	SS5	0	0.5	SO	G	1				✓		-17
2/17	1005	MPT-1343-SS5-2.0-2011-02-17	SS5	0.5	2.0	SO	G	4		✓	✓	✓		-18
2/17	1010	MPT-1343-SS5-4.0-2011-02-17	SS5	2.0	4.0	SO	G	4		✓	✓	✓		-19
2/17	1015	MPT-1343-SS5-4.5-2011-02-17	SS5	4.0	4.5	SO	G	5		✓	✓	✓	✓	* -20
2/17	1100	MPT-1343-SS6-0.5-2011-02-17	SS6	0	0.5	SO	G	1				✓		-21
2/17	1105	MPT-1343-SS6-2.0-2011-02-17	SS6	0.5	2.0	SO	G	4		✓	✓	✓		-22
2/17	1115	MPT-1343-SS6-4.0-2011-02-17	SS6	2.0	4.0	SO	G	4		✓	✓	✓		-23
2/17	1120	MPT-1343-SS6-4.5-2011-02-17	SS6	4.0	4.5	SO	G	5		✓	✓	✓	✓	* -24

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	2/18/11	1500	1. RECEIVED BY	2/21/11	845
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

CTOJM33_007 Summ Package 11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102218 Number of Coolers: 1 of 4

Client: Tetra Tech Project: 1126025801

Date/Time Received: 2.21.11 8:45AM Date cooler(s) opened: 2.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1793

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.18.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.3 °C Correction Factor: -0.3 °C Final Value: 1.0 °C

Dates samples were logged-in: 2-22-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A

11. Did all bottles arrive unbroken? ..... (Yes) No N/A

12. Was all required bottle label information complete? ..... (Yes) No N/A

13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A

14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A

15. Were preservative levels correct in all applicable sample containers? ..... Yes No (N/A)

16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)

17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A

18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102218 Number of Coolers: 2 of 4

Client: Tetra Tech Project: 112602901

Date/Time Received: 2.21.11 8:45Am Date cooler(s) opened: 2.21.10

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 2 Seal date: ? Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.9 °C Correction Factor: -0.3 °C Final Value: 0.6 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 4

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102218 Number of Coolers: 3 of 4

Client: Tetra Tech Project: 112602801

Date/Time Received: 2.21.11 845am Date cooler(s) opened: 2.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1 How did the samples arrive? (FedEx) UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 4657

2 Were custody seals on outside of cooler(s)?	(Yes)	No	
How many: 2 Seal date: 2.18.11 Seal Initials: ?			
3 Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4 Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5 Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6 Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7 Was project identifiable from custody papers?	(Yes)	No	N/A
8 If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.7 °C Correction Factor: -0.3 °C Final Value: 0.4 °C

Dates samples were logged-in:

9 Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10 Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11 Did all bottles arrive unbroken?	Yes	No	N/A
12 Was all required bottle label information complete?	Yes	No	N/A
13 Did all bottle labels agree with custody papers?	Yes	No	N/A
14 Were correct containers used for the analyses indicated?	Yes	No	N/A
15 Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16 Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17 Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18 Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 4

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102219 Number of Coolers: 4 of 4

Client: Tetra Tech Project: 112602801

Date/Time Received: 2.21.11 8:45AM Date cooler(s) opened: 2.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4679

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 2.18.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.9 °C Correction Factor: -0.3 °C Final Value: 0.6 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 4

WORK ORDER

1102216

Printed: 3/22/2011 2:07:35PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Report To:
Tetra Tech NUS, Inc. (T010)
Tobrena Skeen
Foster Plaza 7, 661 Anderson Drive
Pittsburgh, PA 15220
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone :(412) 921-8182
Fax: (412) 921-4040

Date Due: 03/21/2011 16:00 (20 day TAT)
Received By: Sonya Gordon
Logged In By: Sonya Gordon

Date Received: 02/21/2011 08:45
Date Logged In 02/22/2011 16:36

Samples Received at: **1°C**

Custody Seals	No	Received On Ice	No
Containers Intact	No		
COC/Labels Agree	No		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Version	Comments
1102216-01 MPT-1343-SS1-0.5-2011-02-16 [Solid] Sampled 02/16/2011 10:25 Eastern					
SM2540B	03/11/2011 14:00	10	02/23/2011 09:25		
FLPRO	03/11/2011 14:00	10	03/02/2011 09:25		
SW8270C	03/11/2011 14:00	10	03/02/2011 09:25		

WORK ORDER

1102216

Printed: 3/22/2011 2:07:35PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102216-02 MPT-1343-SS1-2.0-2011-02-16 [Solid] Sampled 02/16/2011 10:30 Eastern					
SW8260B	03/11/2011 14:00	10	03/02/2011 09:30		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/23/2011 09:30		
SW8270C	03/11/2011 14:00	10	03/02/2011 09:30		
FLPRO	03/11/2011 14:00	10	03/02/2011 09:30		
1102216-03 MPT-1343-SS1-4.0-2011-02-16 [Solid] Sampled 02/16/2011 10:40 Eastern					
SW8270C	03/11/2011 14:00	10	03/02/2011 09:40		
SW8260B	03/11/2011 14:00	10	03/02/2011 09:40		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/23/2011 09:40		
FLPRO	03/11/2011 14:00	10	03/02/2011 09:40		
1102216-04 MPT-1343-SS1-4.5-2011-02-16 [Solid] Sampled 02/16/2011 10:50 Eastern					**May need to run SPLP, client will notify.**
SM2540B	03/11/2011 14:00	10	02/23/2011 09:50		
FLPRO	03/11/2011 14:00	10	03/02/2011 09:50		
SW8270C	03/11/2011 14:00	10	03/02/2011 09:50		
SW8260B	03/11/2011 14:00	10	03/02/2011 09:50		AP Vials. BTEX & MTBE
1102216-05 MPT-1343-SS2-0.5-2011-02-16 [Solid] Sampled 02/16/2011 11:25 Eastern					
SW8270C	03/11/2011 14:00	10	03/02/2011 10:25		
FLPRO	03/11/2011 14:00	10	03/02/2011 10:25		
SM2540B	03/11/2011 14:00	10	02/23/2011 10:25		

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102216-06 MPT-1343-SS2-2.0-2011-02-16 [Solid] Sampled 02/16/2011 11:30 Eastern					
SM2540B	03/11/2011 14:00	10	02/23/2011 10:30		
SW8260B	03/11/2011 14:00	10	03/02/2011 10:30		AP Vials. BTEX & MTBE
SW8270C	03/11/2011 14:00	10	03/02/2011 10:30		
FLPRO	03/11/2011 14:00	10	03/02/2011 10:30		
1102216-07 MPT-1343-SS2-4.0-2011-02-16 [Solid] Sampled 02/16/2011 11:40 Eastern					
SM2540B	03/11/2011 14:00	10	02/23/2011 10:40		
FLPRO	03/11/2011 14:00	10	03/02/2011 10:40		
SW8270C	03/11/2011 14:00	10	03/02/2011 10:40		
SW8260B	03/11/2011 14:00	10	03/02/2011 10:40		AP Vials. BTEX & MTBE
1102216-08 MPT-1343-SS2-4.5-2011-02-16 [Solid] Sampled 02/16/2011 11:45 Eastern					**may need SPLP, Client will notify**
SM2540B	03/11/2011 14:00	10	02/23/2011 10:45		
SW8260B	03/11/2011 14:00	10	03/02/2011 10:45		AP Vials. BTEX & MTBE
FLPRO	03/11/2011 14:00	10	03/02/2011 10:45		
SW8270C	03/11/2011 14:00	10	03/02/2011 10:45		
1102216-09 MPT-1343-SS3-0.5-2011-02-16 [Solid] Sampled 02/16/2011 14:00 Eastern					
FLPRO	03/11/2011 14:00	10	03/02/2011 13:00		
SW8270C	03/11/2011 14:00	10	03/02/2011 13:00		
SM2540B	03/11/2011 14:00	10	02/23/2011 13:00		

WORK ORDER

1102216

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102216-10 MPT-1343-SS3-2.0-2011-02-16 [Solid] Sampled 02/16/2011 14:10 Eastern					
SM2540B	03/11/2011 14:00	10	02/23/2011 13:10		
SW8270C	03/11/2011 14:00	10	03/02/2011 13:10		
SW8260B	03/11/2011 14:00	10	03/02/2011 13:10		AP Vials. BTEX & MTBE
FLPRO	03/11/2011 14:00	10	03/02/2011 13:10		
1102216-11 MPT-1343-SS3-4.0-2011-02-16 [Solid] Sampled 02/16/2011 14:20 Eastern					
FLPRO	03/11/2011 14:00	10	03/02/2011 13:20		
SW8270C	03/11/2011 14:00	10	03/02/2011 13:20		
SM2540B	03/11/2011 14:00	10	02/23/2011 13:20		
SW8260B	03/11/2011 14:00	10	03/02/2011 13:20		AP Vials. BTEX & MTBE
1102216-12 MPT-1343-SS3-4.5-2011-02-16 [Solid] Sampled 02/16/2011 14:25 Eastern					**may need SPLP, Client will notify**
SW8270C	03/11/2011 14:00	10	03/02/2011 13:25		
SW8260B	03/11/2011 14:00	10	03/02/2011 13:25		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/23/2011 13:25		
FLPRO	03/11/2011 14:00	10	03/02/2011 13:25		
1102216-13 MPT-1343-SS4-0.5-2011-02-16 [Solid] Sampled 02/16/2011 15:15 Eastern					
SW8270C	03/11/2011 14:00	10	03/02/2011 14:15		
SM2540B	03/11/2011 14:00	10	02/23/2011 14:15		
FLPRO	03/11/2011 14:00	10	03/02/2011 14:15		
MAEPH	03/11/2011 14:00	10	03/02/2011 14:15		

WORK ORDER

1102216

Printed: 3/22/2011 2:07:35PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102216-14 MPT-1343-SS4-2.0-2011-02-16 [Solid] Sampled 02/16/2011 15:25 Eastern					
FLPRO	03/11/2011 14:00	10	03/02/2011 14:25		
SW8270C	03/11/2011 14:00	10	03/02/2011 14:25		
SW8260B	03/11/2011 14:00	10	03/02/2011 14:25		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/23/2011 14:25		
1102216-15 MPT-1343-SS4-4.0-2011-02-16 [Solid] Sampled 02/16/2011 15:30 Eastern					
SW8270C	03/11/2011 14:00	10	03/02/2011 14:30		
SW8260B	03/11/2011 14:00	10	03/02/2011 14:30		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/23/2011 14:30		
FLPRO	03/11/2011 14:00	10	03/02/2011 14:30		
1102216-16 MPT-1343-SS4-4.5-2011-02-16 [Solid] Sampled 02/16/2011 15:35 Eastern					**may need SPLP, client will notify**
SW8270C	03/11/2011 14:00	10	03/02/2011 14:35		
FLPRO	03/11/2011 14:00	10	03/02/2011 14:35		
SW8260B	03/11/2011 14:00	10	03/02/2011 14:35		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/23/2011 14:35		
1102216-17 MPT-1343-SS5-0.5-2011-02-17 [Solid] Sampled 02/17/2011 10:00 Eastern					
SM2540B	03/11/2011 14:00	10	02/24/2011 09:00		
SW8270C	03/11/2011 14:00	10	03/03/2011 09:00		
FLPRO	03/11/2011 14:00	10	03/03/2011 09:00		

WORK ORDER

1102216

Printed: 3/22/2011 2:07:35PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102216-18 MPT-1343-SS5-2.0-2011-02-17 [Solid] Sampled 02/17/2011 10:05 Eastern					
SM2540B	03/11/2011 14:00	10	02/24/2011 09:05		
FLPRO	03/11/2011 14:00	10	03/03/2011 09:05		
SW8260B	03/11/2011 14:00	10	03/03/2011 09:05		AP Vials. BTEX & MTBE
SW8270C	03/11/2011 14:00	10	03/03/2011 09:05		
1102216-19 MPT-1343-SS5-4.0-2011-02-17 [Solid] Sampled 02/17/2011 10:10 Eastern					
SW8270C	03/11/2011 14:00	10	03/03/2011 09:10		
SW8260B	03/11/2011 14:00	10	03/03/2011 09:10		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/24/2011 09:10		
FLPRO	03/11/2011 14:00	10	03/03/2011 09:10		
1102216-20 MPT-1343-SS5-4.5-2011-02-17 [Solid] Sampled 02/17/2011 10:15 Eastern					**may need SPLP, client will notify**
SM2540B	03/11/2011 14:00	10	02/24/2011 09:15		
FLPRO	03/11/2011 14:00	10	03/03/2011 09:15		
SW8260B	03/11/2011 14:00	10	03/03/2011 09:15		AP Vials. BTEX & MTBE
SW8270C	03/11/2011 14:00	10	03/03/2011 09:15		
MAEPH	03/11/2011 14:00	10	03/03/2011 09:15		
1102216-21 MPT-1343-SS6-0.5-2011-02-17 [Solid] Sampled 02/17/2011 11:00 Eastern					
SM2540B	03/11/2011 14:00	10	02/24/2011 10:00		
SW8270C	03/11/2011 14:00	10	03/03/2011 10:00		
FLPRO	03/11/2011 14:00	10	03/03/2011 10:00		

WORK ORDER

1102216

Printed: 3/22/2011 2:07:35PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102216-22 MPT-1343-SS6-2.0-2011-02-17 [Solid] Sampled 02/17/2011 11:05 Eastern					
SW8260B	03/11/2011 14:00	10	03/03/2011 10:05		AP Vials. BTEX & MTBE
SW8270C	03/11/2011 14:00	10	03/03/2011 10:05		
SM2540B	03/11/2011 14:00	10	02/24/2011 10:05		
FLPRO	03/11/2011 14:00	10	03/03/2011 10:05		
1102216-23 MPT-1343-SS6-4.0-2011-02-17 [Solid] Sampled 02/17/2011 11:15 Eastern					
FLPRO	03/11/2011 14:00	10	03/03/2011 10:15		
SW8270C	03/11/2011 14:00	10	03/03/2011 10:15		
SW8260B	03/11/2011 14:00	10	03/03/2011 10:15		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/24/2011 10:15		
1102216-24 MPT-1343-SS6-4.5-2011-02-17 [Solid] Sampled 02/17/2011 11:20 Eastern					**may need SPLP, Client will notify**
FLPRO	03/11/2011 14:00	10	03/03/2011 10:20		
MAEPH	03/11/2011 14:00	10	03/03/2011 10:20		
SW1312_FLPRO	03/21/2011 14:00	10	03/03/2011 10:20		
SW8270C	03/11/2011 14:00	10	03/03/2011 10:20		
SW1312	03/07/2011 14:00	10	03/03/2011 10:20		
SW8260B	03/11/2011 14:00	10	03/03/2011 10:20		AP Vials. BTEX & MTBE
SM2540B	03/11/2011 14:00	10	02/24/2011 10:20		

22

CTOJM33_007 Summ Package

Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: NAS Mayport CTO JM33 2010
SDG #: CTOJM33_007
MATRIX: Solid

QC LEVEL: EDD/IVQSM
Report Due: 3/7/2011
Client Sample Count: 24

Sample Type	Sampled	Received	Lab ID	Client ID	FLPRO	MAEPH	SM2540B	SW8260B	SW8270C
Client Sample	2/16/2011	2/21/2011	1102216-01	MPT-1343-SS1-0.5-2011-02-16	X		X		X
Client Sample	2/16/2011	2/21/2011	1102216-02	MPT-1343-SS1-2.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-03	MPT-1343-SS1-4.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-04	MPT-1343-SS1-4.5-2011-02-16	May need to run SPLP, client will notify.		May need to run SPLP, client will notify.	May need to run SPLP, client will notify.	May need to run SPLP, client will notify.
Client Sample	2/16/2011	2/21/2011	1102216-05	MPT-1343-SS2-0.5-2011-02-16	X		X		X
Client Sample	2/16/2011	2/21/2011	1102216-06	MPT-1343-SS2-2.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-07	MPT-1343-SS2-4.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-08	MPT-1343-SS2-4.5-2011-02-16	may need SPLP, Client will notify		may need SPLP, Client will notify	may need SPLP, Client will notify	may need SPLP, Client will notify
Client Sample	2/16/2011	2/21/2011	1102216-09	MPT-1343-SS3-0.5-2011-02-16	X		X		X
Client Sample	2/16/2011	2/21/2011	1102216-10	MPT-1343-SS3-2.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-11	MPT-1343-SS3-4.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-12	MPT-1343-SS3-4.5-2011-02-16	may need SPLP, Client will notify		may need SPLP, Client will notify	may need SPLP, Client will notify	may need SPLP, Client will notify
Client Sample	2/16/2011	2/21/2011	1102216-13	MPT-1343-SS4-0.5-2011-02-16	X		X		X
Client Sample	2/16/2011	2/21/2011	1102216-14	MPT-1343-SS4-2.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-15	MPT-1343-SS4-4.0-2011-02-16	X		X	X	X
Client Sample	2/16/2011	2/21/2011	1102216-16	MPT-1343-SS4-4.5-2011-02-16	may need SPLP, client will notify		may need SPLP, client will notify	may need SPLP, client will notify	may need SPLP, client will notify
Client Sample	2/17/2011	2/21/2011	1102216-17	MPT-1343-SS5-0.5-2011-02-17	X		X		X
Client Sample	2/17/2011	2/21/2011	1102216-18	MPT-1343-SS5-2.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102216-19	MPT-1343-SS5-4.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102216-20	MPT-1343-SS5-4.5-2011-02-17	may need SPLP, client will notify	may need SPLP, client will notify	may need SPLP, client will notify	may need SPLP, client will notify	may need SPLP, client will notify
Client Sample	2/17/2011	2/21/2011	1102216-21	MPT-1343-SS6-0.5-2011-02-17	X		X		X
Client Sample	2/17/2011	2/21/2011	1102216-22	MPT-1343-SS6-2.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102216-23	MPT-1343-SS6-4.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102216-24	MPT-1343-SS6-4.5-2011-02-17	may need SPLP, Client will notify	may need SPLP, Client will notify	may need SPLP, Client will notify	may need SPLP, Client will notify	may need SPLP, Client will notify

Data for SW8260B Forms

ANALYSIS DATA SHEET

MPT-1343-SS1-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-02 File ID: 0221602.D

Sampled: 02/16/11 10:30 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 11:53

Solids: 87.55 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.75	3.49	6.98	U
100-41-4	Ethylbenzene		1.75	3.49	6.98	U
1634-04-4	Methyl t-Butyl Ether		1.75	3.49	6.98	X U
108-88-3	Toluene		1.75	3.49	6.98	U
1330-20-7	Xylenes (total)		5.24	10.5	20.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	41.89	39.27	93.7	85 - 120	
Dibromofluoromethane	41.89	43.06	103	80 - 125	
1,2-Dichloroethane-d4	41.89	43.58	104	75 - 140	
Toluene-d8	41.89	40.31	96.2	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS1-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-03 File ID: 0221603.D

Sampled: 02/16/11 10:40 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 12:17

Solids: 82.62 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.23	2.47	4.94	U
100-41-4	Ethylbenzene		1.23	2.47	4.94	U
1634-04-4	Methyl t-Butyl Ether		1.23	2.47	4.94	X U
108-88-3	Toluene		1.23	2.47	4.94	U
1330-20-7	Xylenes (total)		3.70	7.40	14.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.62	27.06	91.4	85 - 120	
Dibromofluoromethane	29.62	29.40	99.3	80 - 125	
1,2-Dichloroethane-d4	29.62	29.96	101	75 - 140	
Toluene-d8	29.62	28.86	97.4	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS1-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-04 File ID: 0221604.D

Sampled: 02/16/11 10:50 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 12:41

Solids: 81.65 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.30	2.59	5.19	U
100-41-4	Ethylbenzene		1.30	2.59	5.19	U
1634-04-4	Methyl t-Butyl Ether		1.30	2.59	5.19	X U
108-88-3	Toluene		1.30	2.59	5.19	U
1330-20-7	Xylenes (total)		3.89	7.78	15.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	31.14	30.10	96.7	85 - 120	
Dibromofluoromethane	31.14	31.30	101	80 - 125	
1,2-Dichloroethane-d4	31.14	31.71	102	75 - 140	
Toluene-d8	31.14	30.13	96.8	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS2-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-06 File ID: 0221606.D

Sampled: 02/16/11 11:30 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 13:05

Solids: 88.09 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.12	2.23	4.47	U
100-41-4	Ethylbenzene		1.12	2.23	4.47	U
1634-04-4	Methyl t-Butyl Ether		1.12	2.23	4.47	X U
108-88-3	Toluene		1.12	2.23	4.47	U
1330-20-7	Xylenes (total)		3.35	6.70	13.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	26.81	23.52	87.7	85 - 120	
Dibromofluoromethane	26.81	26.05	97.1	80 - 125	
1,2-Dichloroethane-d4	26.81	25.71	95.9	75 - 140	
Toluene-d8	26.81	27.08	101	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS2-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-07 File ID: 0221607.D

Sampled: 02/16/11 11:40 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 13:30

Solids: 80.52 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.32	2.64	5.27	U
100-41-4	Ethylbenzene		1.32	2.64	5.27	U
1634-04-4	Methyl t-Butyl Ether		1.32	2.64	5.27	X U
108-88-3	Toluene		1.32	2.64	5.27	U
1330-20-7	Xylenes (total)		3.95	7.91	15.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	31.63	28.15	89.0	85 - 120	
Dibromofluoromethane	31.63	31.44	99.4	80 - 125	
1,2-Dichloroethane-d4	31.63	31.01	98.0	75 - 140	
Toluene-d8	31.63	31.19	98.6	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS2-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-08 File ID: 0221608.D

Sampled: 02/16/11 11:45 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 13:54

Solids: 71.91 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.54	3.08	6.16	U
100-41-4	Ethylbenzene		1.54	3.08	6.16	U
1634-04-4	Methyl t-Butyl Ether		1.54	3.08	6.16	X U
108-88-3	Toluene		1.54	3.08	6.16	U
1330-20-7	Xylenes (total)		4.62	9.25	18.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	36.99	34.27	92.6	85 - 120	
Dibromofluoromethane	36.99	36.61	99.0	80 - 125	
1,2-Dichloroethane-d4	36.99	36.76	99.4	75 - 140	
Toluene-d8	36.99	35.56	96.1	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS3-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-10 File ID: 0221610.D

Sampled: 02/16/11 14:10 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 14:18

Solids: 87.69 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.24	2.49	4.98	U
100-41-4	Ethylbenzene		1.24	2.49	4.98	U
1634-04-4	Methyl t-Butyl Ether		1.24	2.49	4.98	X U
108-88-3	Toluene		1.24	2.49	4.98	U
1330-20-7	Xylenes (total)		3.73	7.46	14.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.85	27.72	92.9	85 - 120	
Dibromofluoromethane	29.85	29.53	98.9	80 - 125	
1,2-Dichloroethane-d4	29.85	29.23	97.9	75 - 140	
Toluene-d8	29.85	28.95	97.0	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS3-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-11 File ID: 0221611.D

Sampled: 02/16/11 14:20 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 14:43

Solids: 82.77 Preparation: 5035 Dilution: 1

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.24	2.48	4.97	U
100-41-4	Ethylbenzene		1.24	2.48	4.97	U
1634-04-4	Methyl t-Butyl Ether		1.24	2.48	4.97	X U
108-88-3	Toluene		1.24	2.48	4.97	U
1330-20-7	Xylenes (total)		3.73	7.45	14.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.81	27.67	92.8	85 - 120	
Dibromofluoromethane	29.81	29.01	97.3	80 - 125	
1,2-Dichloroethane-d4	29.81	29.03	97.4	75 - 140	
Toluene-d8	29.81	29.94	100	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS3-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-12RE1 File ID: 0221612.D

Sampled: 02/16/11 14:25 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 13:13

Solids: 84.35 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.24	2.49	4.97	U
100-41-4	Ethylbenzene		1.24	2.49	4.97	U
1634-04-4	Methyl t-Butyl Ether		1.24	2.49	4.97	U
108-88-3	Toluene		1.24	2.49	4.97	U
1330-20-7	Xylenes (total)		3.73	7.46	14.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.84	28.30	94.9	85 - 120	
Dibromofluoromethane	29.84	29.33	98.3	80 - 125	
1,2-Dichloroethane-d4	29.84	28.74	96.3	75 - 140	
Toluene-d8	29.84	28.92	96.9	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS4-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-14 File ID: 0221614.D

Sampled: 02/16/11 15:25 Prepared: 02/25/11 00:00 Analyzed: 02/25/11 18:21

Solids: 85.41 Preparation: 5035 Dilution: 1

Batch: 1C08004 Sequence: 1B05701 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.36	2.71	5.42	U
100-41-4	Ethylbenzene		1.36	2.71	5.42	U
1634-04-4	Methyl t-Butyl Ether		1.36	2.71	5.42	X U
108-88-3	Toluene		1.36	2.71	5.42	U
1330-20-7	Xylenes (total)		4.07	8.13	16.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.52	29.78	91.6	85 - 120	
Dibromofluoromethane	32.52	31.68	97.4	80 - 125	
1,2-Dichloroethane-d4	32.52	32.34	99.4	75 - 140	
Toluene-d8	32.52	32.30	99.3	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS4-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-15 File ID: 0221615.D

Sampled: 02/16/11 15:30 Prepared: 02/25/11 00:00 Analyzed: 02/25/11 18:46

Solids: 88.92 Preparation: 5035 Dilution: 1

Batch: 1C08004 Sequence: 1B05701 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.36	2.73	5.46	U
100-41-4	Ethylbenzene		1.36	2.73	5.46	U
1634-04-4	Methyl t-Butyl Ether		1.36	2.73	5.46	X U
108-88-3	Toluene		1.36	2.73	5.46	U
1330-20-7	Xylenes (total)		4.09	8.19	16.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.76	31.44	96.0	85 - 120	
Dibromofluoromethane	32.76	31.60	96.5	80 - 125	
1,2-Dichloroethane-d4	32.76	31.14	95.1	75 - 140	
Toluene-d8	32.76	31.52	96.2	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS4-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-16 File ID: 0221616.D

Sampled: 02/16/11 15:35 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 13:37

Solids: 81.70 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.50	3.01	6.01	U
100-41-4	Ethylbenzene		1.50	3.01	6.01	U
1634-04-4	Methyl t-Butyl Ether		1.50	3.01	6.01	U
108-88-3	Toluene		1.50	3.01	6.01	U
1330-20-7	Xylenes (total)		4.51	9.02	18.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	36.07	33.59	93.1	85 - 120	
Dibromofluoromethane	36.07	34.19	94.8	80 - 125	
1,2-Dichloroethane-d4	36.07	34.10	94.5	75 - 140	
Toluene-d8	36.07	34.53	95.7	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS5-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-18 File ID: 0221618.D

Sampled: 02/17/11 10:05 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 14:01

Solids: 75.89 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.47	2.94	5.87	U
100-41-4	Ethylbenzene		1.47	2.94	5.87	U
1634-04-4	Methyl t-Butyl Ether		1.47	2.94	5.87	U
108-88-3	Toluene		1.47	2.94	5.87	U
1330-20-7	Xylenes (total)		4.40	8.81	17.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	35.23	33.12	94.0	85 - 120	
Dibromofluoromethane	35.23	34.44	97.7	80 - 125	
1,2-Dichloroethane-d4	35.23	35.58	101	75 - 140	
Toluene-d8	35.23	34.66	98.4	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-19 File ID: 0221619.D

Sampled: 02/17/11 10:10 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 14:25

Solids: 85.53 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.23	2.46	4.92	U
100-41-4	Ethylbenzene		1.23	2.46	4.92	U
1634-04-4	Methyl t-Butyl Ether		1.23	2.46	4.92	U
108-88-3	Toluene		1.23	2.46	4.92	U
1330-20-7	Xylenes (total)		3.69	7.38	14.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.52	27.58	93.4	85 - 120	
Dibromofluoromethane	29.52	27.44	93.0	80 - 125	
1,2-Dichloroethane-d4	29.52	29.13	98.7	75 - 140	
Toluene-d8	29.52	28.54	96.7	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-20 File ID: 0221620.D

Sampled: 02/17/11 10:15 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 14:49

Solids: 85.20 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.19	2.38	4.76	U
100-41-4	Ethylbenzene		1.19	2.38	4.76	U
1634-04-4	Methyl t-Butyl Ether		1.19	2.38	4.76	U
108-88-3	Toluene		1.19	2.38	4.76	U
1330-20-7	Xylenes (total)		3.57	7.15	14.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	28.58	26.12	91.4	85 - 120	
Dibromofluoromethane	28.58	27.63	96.7	80 - 125	
1,2-Dichloroethane-d4	28.58	26.85	94.0	75 - 140	
Toluene-d8	28.58	27.96	97.8	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS6-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-22 File ID: 0221622.D

Sampled: 02/17/11 11:05 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 15:13

Solids: 56.12 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		2.29	4.57	9.15	U
100-41-4	Ethylbenzene		2.29	4.57	9.15	U
1634-04-4	Methyl t-Butyl Ether		2.29	4.57	9.15	U
108-88-3	Toluene		2.29	4.57	9.15	U
1330-20-7	Xylenes (total)		6.86	13.7	27.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	54.88	51.35	93.6	85 - 120	
Dibromofluoromethane	54.88	51.49	93.8	80 - 125	
1,2-Dichloroethane-d4	54.88	56.15	102	75 - 140	
Toluene-d8	54.88	54.60	99.5	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS6-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-23RE1 File ID: 0221623.D

Sampled: 02/17/11 11:15 Prepared: 03/01/11 00:00 Analyzed: 03/01/11 11:45

Solids: 83.64 Preparation: 5035 Dilution: 1

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.12	2.24	4.49	U
100-41-4	Ethylbenzene		1.12	2.24	4.49	U
1634-04-4	Methyl t-Butyl Ether		1.12	2.24	4.49	U
108-88-3	Toluene		1.12	2.24	4.49	U
1330-20-7	Xylenes (total)		3.37	6.73	13.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	26.93	29.64	110	85 - 120	
Dibromofluoromethane	26.93	27.22	101	80 - 125	
1,2-Dichloroethane-d4	26.93	28.56	106	75 - 140	
Toluene-d8	26.93	27.83	103	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS6-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-24 File ID: 0221624.D

Sampled: 02/17/11 11:20 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 16:00

Solids: 84.05 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.11	2.22	4.44	U
100-41-4	Ethylbenzene		1.11	2.22	4.44	U
1634-04-4	Methyl t-Butyl Ether		1.11	2.22	4.44	U
108-88-3	Toluene		1.11	2.22	4.44	U
1330-20-7	Xylenes (total)		3.33	6.66	13.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	26.64	26.55	99.7	85 - 120	
Dibromofluoromethane	26.64	24.35	91.4	80 - 125	
1,2-Dichloroethane-d4	26.64	27.36	103	75 - 140	
Toluene-d8	26.64	27.53	103	85 - 115	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05601
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05601-CCV1) ug/L				Lab File ID: 0224CCV1.D		Analyzed: 02/24/11 09:35		
Bromofluorobenzene	30.00	98.7	80 - 120	12.257	12.257	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.937	6.937	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	80 - 120	7.428	7.428	0.0000	+/-1.000	
Toluene-d8	30.00	99.6	80 - 120	9.641	9.641	0.0000	+/-1.000	
LCS (1B24007-BS1) ug/Kg wet				Lab File ID: 0224LS1.D		Analyzed: 02/24/11 10:16		
Bromofluorobenzene	30.00	92.8	85 - 120	12.25	12.257	-0.0070	+/-1.000	
Dibromofluoromethane	30.00	98.5	80 - 125	6.939	6.937	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.8	75 - 140	7.431	7.428	0.0030	+/-1.000	
Toluene-d8	30.00	94.5	85 - 115	9.644	9.641	0.0030	+/-1.000	
Blank (1B24007-BLK1) ug/Kg wet				Lab File ID: 0224BL1.D		Analyzed: 02/24/11 11:28		
Bromofluorobenzene	30.00	96.9	85 - 120	12.247	12.257	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 125	6.936	6.937	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	112	75 - 140	7.428	7.428	0.0000	+/-1.000	
Toluene-d8	30.00	95.5	85 - 115	9.641	9.641	0.0000	+/-1.000	
MPT-1343-SS1-2.0-2011-02-16 (1102216-02) ug/Kg dry				Lab File ID: 0221602.D		Analyzed: 02/24/11 11:53		
Bromofluorobenzene	41.89	93.7	85 - 120	12.248	12.257	-0.0090	+/-1.000	
Dibromofluoromethane	41.89	103	80 - 125	6.947	6.937	0.0100	+/-1.000	
1,2-Dichloroethane-d4	41.89	104	75 - 140	7.439	7.428	0.0110	+/-1.000	
Toluene-d8	41.89	96.2	85 - 115	9.642	9.641	0.0010	+/-1.000	
MPT-1343-SS1-4.0-2011-02-16 (1102216-03) ug/Kg dry				Lab File ID: 0221603.D		Analyzed: 02/24/11 12:17		
Bromofluorobenzene	29.62	91.4	85 - 120	12.257	12.257	0.0000	+/-1.000	
Dibromofluoromethane	29.62	99.3	80 - 125	6.947	6.937	0.0100	+/-1.000	
1,2-Dichloroethane-d4	29.62	101	75 - 140	7.438	7.428	0.0100	+/-1.000	
Toluene-d8	29.62	97.4	85 - 115	9.641	9.641	0.0000	+/-1.000	
MPT-1343-SS1-4.5-2011-02-16 (1102216-04) ug/Kg dry				Lab File ID: 0221604.D		Analyzed: 02/24/11 12:41		
Bromofluorobenzene	31.14	96.7	85 - 120	12.258	12.257	0.0010	+/-1.000	
Dibromofluoromethane	31.14	101	80 - 125	6.947	6.937	0.0100	+/-1.000	
1,2-Dichloroethane-d4	31.14	102	75 - 140	7.438	7.428	0.0100	+/-1.000	
Toluene-d8	31.14	96.8	85 - 115	9.641	9.641	0.0000	+/-1.000	
MPT-1343-SS2-2.0-2011-02-16 (1102216-06) ug/Kg dry				Lab File ID: 0221606.D		Analyzed: 02/24/11 13:05		
Bromofluorobenzene	26.81	87.7	85 - 120	12.258	12.257	0.0010	+/-1.000	
Dibromofluoromethane	26.81	97.1	80 - 125	6.957	6.937	0.0200	+/-1.000	
1,2-Dichloroethane-d4	26.81	95.9	75 - 140	7.449	7.428	0.0210	+/-1.000	
Toluene-d8	26.81	101	85 - 115	9.642	9.641	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05601
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS2-4.0-2011-02-16 (1102216-07) ug/Kg dry				Lab File ID: 0221607.D		Analyzed: 02/24/11 13:30		
Bromofluorobenzene	31.63	89.0	85 - 120	12.259	12.257	0.0020	+/-1.000	
Dibromofluoromethane	31.63	99.4	80 - 125	6.958	6.937	0.0210	+/-1.000	
1,2-Dichloroethane-d4	31.63	98.0	75 - 140	7.44	7.428	0.0120	+/-1.000	
Toluene-d8	31.63	98.6	85 - 115	9.643	9.641	0.0020	+/-1.000	
MPT-1343-SS2-4.5-2011-02-16 (1102216-08) ug/Kg dry				Lab File ID: 0221608.D		Analyzed: 02/24/11 13:54		
Bromofluorobenzene	36.99	92.6	85 - 120	12.258	12.257	0.0010	+/-1.000	
Dibromofluoromethane	36.99	99.0	80 - 125	6.957	6.937	0.0200	+/-1.000	
1,2-Dichloroethane-d4	36.99	99.4	75 - 140	7.448	7.428	0.0200	+/-1.000	
Toluene-d8	36.99	96.1	85 - 115	9.652	9.641	0.0110	+/-1.000	
MPT-1343-SS3-2.0-2011-02-16 (1102216-10) ug/Kg dry				Lab File ID: 0221610.D		Analyzed: 02/24/11 14:18		
Bromofluorobenzene	29.85	92.9	85 - 120	12.261	12.257	0.0040	+/-1.000	
Dibromofluoromethane	29.85	98.9	80 - 125	6.96	6.937	0.0230	+/-1.000	
1,2-Dichloroethane-d4	29.85	97.9	75 - 140	7.452	7.428	0.0240	+/-1.000	
Toluene-d8	29.85	97.0	85 - 115	9.645	9.641	0.0040	+/-1.000	
MPT-1343-SS3-4.0-2011-02-16 (1102216-11) ug/Kg dry				Lab File ID: 0221611.D		Analyzed: 02/24/11 14:43		
Bromofluorobenzene	29.81	92.8	85 - 120	12.257	12.257	0.0000	+/-1.000	
Dibromofluoromethane	29.81	97.3	80 - 125	6.946	6.937	0.0090	+/-1.000	
1,2-Dichloroethane-d4	29.81	97.4	75 - 140	7.438	7.428	0.0100	+/-1.000	
Toluene-d8	29.81	100	85 - 115	9.641	9.641	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05701
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05701-CCV1) ug/L				Lab File ID: 0225CCV1.D		Analyzed: 02/25/11 08:55		
Bromofluorobenzene	30.00	98.7	80 - 120	12.247	12.247	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.927	6.927	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.428	7.428	0.0000	+/-1.000	
Toluene-d8	30.00	98.9	80 - 120	9.631	9.631	0.0000	+/-1.000	
LCS (1C08004-BS1) ug/Kg wet				Lab File ID: 0225LS1.D		Analyzed: 02/25/11 09:31		
Bromofluorobenzene	30.00	93.9	85 - 120	12.247	12.247	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 125	6.936	6.927	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	75 - 140	7.427	7.428	-0.0010	+/-1.000	
Toluene-d8	30.00	92.6	85 - 115	9.63	9.631	-0.0010	+/-1.000	
Blank (1C08004-BLK1) ug/Kg wet				Lab File ID: 0225BL1.D		Analyzed: 02/25/11 10:44		
Bromofluorobenzene	30.00	95.5	85 - 120	12.241	12.247	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 125	6.93	6.927	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	75 - 140	7.432	7.428	0.0040	+/-1.000	
Toluene-d8	30.00	96.6	85 - 115	9.635	9.631	0.0040	+/-1.000	
MPT-1343-SS4-2.0-2011-02-16 (1102216-14) ug/Kg dry				Lab File ID: 0221614.D		Analyzed: 02/25/11 18:21		
Bromofluorobenzene	32.52	91.6	85 - 120	12.246	12.247	-0.0010	+/-1.000	
Dibromofluoromethane	32.52	97.4	80 - 125	6.935	6.927	0.0080	+/-1.000	
1,2-Dichloroethane-d4	32.52	99.4	75 - 140	7.426	7.428	-0.0020	+/-1.000	
Toluene-d8	32.52	99.3	85 - 115	9.629	9.631	-0.0020	+/-1.000	
MPT-1343-SS4-4.0-2011-02-16 (1102216-15) ug/Kg dry				Lab File ID: 0221615.D		Analyzed: 02/25/11 18:46		
Bromofluorobenzene	32.76	96.0	85 - 120	12.24	12.247	-0.0070	+/-1.000	
Dibromofluoromethane	32.76	96.5	80 - 125	6.939	6.927	0.0120	+/-1.000	
1,2-Dichloroethane-d4	32.76	95.1	75 - 140	7.431	7.428	0.0030	+/-1.000	
Toluene-d8	32.76	96.2	85 - 115	9.634	9.631	0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05903-CCV1) ug/L				Lab File ID: 0226CCV1.D		Analyzed: 02/26/11 10:38		
Bromofluorobenzene	30.00	97.5	80 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.93	6.93	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	80 - 120	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	30.00	98.3	80 - 120	9.635	9.635	0.0000	+/-1.000	
LCS (1B26001-BS1) ug/Kg wet				Lab File ID: 0226LS1.D		Analyzed: 02/26/11 11:13		
Bromofluorobenzene	30.00	93.4	85 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.7	80 - 125	6.94	6.93	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.4	75 - 140	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	30.00	93.5	85 - 115	9.635	9.635	0.0000	+/-1.000	
Blank (1B26001-BLK1) ug/Kg wet				Lab File ID: 0226BL1.D		Analyzed: 02/26/11 12:25		
Bromofluorobenzene	30.00	96.9	85 - 120	12.246	12.251	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	95.7	80 - 125	6.945	6.93	0.0150	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	75 - 140	7.436	7.432	0.0040	+/-1.000	
Toluene-d8	30.00	96.3	85 - 115	9.639	9.635	0.0040	+/-1.000	
MPT-1343-SS3-4.5-2011-02-16 (1102216-12RE1) ug/Kg dry				Lab File ID: 0221612.D		Analyzed: 02/26/11 13:13		
Bromofluorobenzene	29.84	94.9	85 - 120	12.255	12.251	0.0040	+/-1.000	
Dibromofluoromethane	29.84	98.3	80 - 125	6.944	6.93	0.0140	+/-1.000	
1,2-Dichloroethane-d4	29.84	96.3	75 - 140	7.436	7.432	0.0040	+/-1.000	
Toluene-d8	29.84	96.9	85 - 115	9.639	9.635	0.0040	+/-1.000	
MPT-1343-SS4-4.5-2011-02-16 (1102216-16) ug/Kg dry				Lab File ID: 0221616.D		Analyzed: 02/26/11 13:37		
Bromofluorobenzene	36.07	93.1	85 - 120	12.256	12.251	0.0050	+/-1.000	
Dibromofluoromethane	36.07	94.8	80 - 125	6.945	6.93	0.0150	+/-1.000	
1,2-Dichloroethane-d4	36.07	94.5	75 - 140	7.437	7.432	0.0050	+/-1.000	
Toluene-d8	36.07	95.7	85 - 115	9.64	9.635	0.0050	+/-1.000	
MPT-1343-SS5-2.0-2011-02-17 (1102216-18) ug/Kg dry				Lab File ID: 0221618.D		Analyzed: 02/26/11 14:01		
Bromofluorobenzene	35.23	94.0	85 - 120	12.253	12.251	0.0020	+/-1.000	
Dibromofluoromethane	35.23	97.7	80 - 125	6.942	6.93	0.0120	+/-1.000	
1,2-Dichloroethane-d4	35.23	101	75 - 140	7.434	7.432	0.0020	+/-1.000	
Toluene-d8	35.23	98.4	85 - 115	9.637	9.635	0.0020	+/-1.000	
MPT-1343-SS5-4.0-2011-02-17 (1102216-19) ug/Kg dry				Lab File ID: 0221619.D		Analyzed: 02/26/11 14:25		
Bromofluorobenzene	29.52	93.4	85 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	29.52	93.0	80 - 125	6.93	6.93	0.0000	+/-1.000	
1,2-Dichloroethane-d4	29.52	98.7	75 - 140	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	29.52	96.7	85 - 115	9.635	9.635	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS5-4.5-2011-02-17 (1102216-20) ug/Kg dry				Lab File ID: 0221620.D		Analyzed: 02/26/11 14:49		
Bromofluorobenzene	28.58	91.4	85 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	28.58	96.7	80 - 125	6.94	6.93	0.0100	+/-1.000	
1,2-Dichloroethane-d4	28.58	94.0	75 - 140	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	28.58	97.8	85 - 115	9.635	9.635	0.0000	+/-1.000	
MPT-1343-SS6-2.0-2011-02-17 (1102216-22) ug/Kg dry				Lab File ID: 0221622.D		Analyzed: 02/26/11 15:13		
Bromofluorobenzene	54.88	93.6	85 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	54.88	93.8	80 - 125	6.94	6.93	0.0100	+/-1.000	
1,2-Dichloroethane-d4	54.88	102	75 - 140	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	54.88	99.5	85 - 115	9.645	9.635	0.0100	+/-1.000	
MPT-1343-SS6-4.5-2011-02-17 (1102216-24) ug/Kg dry				Lab File ID: 0221624.D		Analyzed: 02/26/11 16:00		
Bromofluorobenzene	26.64	99.7	85 - 120	12.254	12.251	0.0030	+/-1.000	
Dibromofluoromethane	26.64	91.4	80 - 125	6.953	6.93	0.0230	+/-1.000	
1,2-Dichloroethane-d4	26.64	103	75 - 140	7.445	7.432	0.0130	+/-1.000	
Toluene-d8	26.64	103	85 - 115	9.638	9.635	0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06108
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06108-CCV1) ug/L				Lab File ID: 0301CCV1.D		Analyzed: 03/01/11 09:02		
Bromofluorobenzene	30.00	101	80 - 120	12.235	12.235	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.8	80 - 120	6.924	6.924	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.8	80 - 120	7.416	7.416	0.0000	+/-1.000	
Toluene-d8	30.00	101	80 - 120	9.628	9.628	0.0000	+/-1.000	
LCS (1C01010-BS1) ug/Kg wet				Lab File ID: 0301LS1.D		Analyzed: 03/01/11 09:44		
Bromofluorobenzene	30.00	93.4	85 - 120	12.237	12.235	0.0020	+/-1.000	
Dibromofluoromethane	30.00	98.7	80 - 125	6.926	6.924	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	75 - 140	7.418	7.416	0.0020	+/-1.000	
Toluene-d8	30.00	95.2	85 - 115	9.621	9.628	-0.0070	+/-1.000	
Blank (1C01010-BLK1) ug/Kg wet				Lab File ID: 0301BL1.D		Analyzed: 03/01/11 10:56		
Bromofluorobenzene	30.00	96.8	85 - 120	12.241	12.235	0.0060	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 125	6.92	6.924	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	75 - 140	7.412	7.416	-0.0040	+/-1.000	
Toluene-d8	30.00	96.6	85 - 115	9.625	9.628	-0.0030	+/-1.000	
MPT-1343-SS6-4.0-2011-02-17 (1102216-23RE1) ug/Kg dry				Lab File ID: 0221623.D		Analyzed: 03/01/11 11:45		
Bromofluorobenzene	26.93	110	85 - 120	12.242	12.235	0.0070	+/-1.000	
Dibromofluoromethane	26.93	101	80 - 125	6.94	6.924	0.0160	+/-1.000	
1,2-Dichloroethane-d4	26.93	106	75 - 140	7.432	7.416	0.0160	+/-1.000	
Toluene-d8	26.93	103	85 - 115	9.625	9.628	-0.0030	+/-1.000	
LCS Dup (1C01010-BSD1) ug/Kg wet				Lab File ID: 0301LD1.D		Analyzed: 03/01/11 17:20		
Bromofluorobenzene	30.00	93.1	85 - 120	12.241	12.235	0.0060	+/-1.000	
Dibromofluoromethane	30.00	95.9	80 - 125	6.93	6.924	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	75 - 140	7.422	7.416	0.0060	+/-1.000	
Toluene-d8	30.00	95.4	85 - 115	9.625	9.628	-0.0030	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B24007	Laboratory ID:	1B24007-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	51.09	102	75 - 125
Ethylbenzene	50.00	51.51	103	75 - 125
Methyl t-Butyl Ether	100.0	110.6	111	55 - 150
Toluene	50.00	51.56	103	70 - 125
Xylenes (total)	150.0	161.4	108	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B26001	Laboratory ID:	1B26001-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	43.89	87.8	75 - 125
Ethylbenzene	50.00	43.31	86.6	75 - 125
Methyl t-Butyl Ether	50.00	46.94	93.9	55 - 150
Toluene	50.00	44.40	88.8	70 - 125
Xylenes (total)	150.0	136.6	91.1	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix: Solid
Batch: 1C01010
Laboratory ID: 1C01010-BS1
Preparation: 5035
Initial/Final: 5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	49.79	99.6	75 - 125
Ethylbenzene	50.00	51.11	102	75 - 125
Methyl t-Butyl Ether	50.00	54.14	108	55 - 150
Toluene	50.00	51.50	103	70 - 125
Xylenes (total)	150.0	160.4	107	75 - 125

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50.00	54.84	110	9.65	30	75 - 125
Ethylbenzene	50.00	54.82	110	7.00	30	75 - 125
Methyl t-Butyl Ether	50.00	61.42	123	12.6	30	55 - 150
Toluene	50.00	55.08	110	6.72	30	70 - 125
Xylenes (total)	150.0	172.1	115	7.03	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1C08004	Laboratory ID:	1C08004-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	52.26	105	75 - 125
Ethylbenzene	50.00	50.95	102	75 - 125
Methyl t-Butyl Ether	50.00	58.49	117	55 - 150
Toluene	50.00	51.23	102	70 - 125
Xylenes (total)	150.0	161.8	108	75 - 125

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B24007 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS1-2.0-2011-02-16	1102216-02	02/24/11 00:00	4.09	5.00
MPT-1343-SS1-4.0-2011-02-16	1102216-03	02/24/11 00:00	6.13	5.00
MPT-1343-SS1-4.5-2011-02-16	1102216-04	02/24/11 00:00	5.90	5.00
MPT-1343-SS2-2.0-2011-02-16	1102216-06	02/24/11 00:00	6.35	5.00
MPT-1343-SS2-4.0-2011-02-16	1102216-07	02/24/11 00:00	5.89	5.00
MPT-1343-SS2-4.5-2011-02-16	1102216-08	02/24/11 00:00	5.64	5.00
MPT-1343-SS3-2.0-2011-02-16	1102216-10	02/24/11 00:00	5.73	5.00
MPT-1343-SS3-4.0-2011-02-16	1102216-11	02/24/11 00:00	6.08	5.00
Blank	1B24007-BLK1	02/24/11 10:14	5.00	5.00
LCS	1B24007-BS1	02/24/11 10:14	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B26001 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS3-4.5-2011-02-16	1102216-12RE1	02/26/11 00:00	5.96	5.00
MPT-1343-SS4-4.5-2011-02-16	1102216-16	02/26/11 00:00	5.09	5.00
MPT-1343-SS5-2.0-2011-02-17	1102216-18	02/26/11 00:00	5.61	5.00
MPT-1343-SS5-4.0-2011-02-17	1102216-19	02/26/11 00:00	5.94	5.00
MPT-1343-SS5-4.5-2011-02-17	1102216-20	02/26/11 00:00	6.16	5.00
MPT-1343-SS6-2.0-2011-02-17	1102216-22	02/26/11 00:00	4.87	5.00
MPT-1343-SS6-4.5-2011-02-17	1102216-24	02/26/11 00:00	6.70	5.00
Blank	1B26001-BLK1	02/26/11 00:00	5.00	5.00
LCS	1B26001-BS1	02/26/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Batch: 1C01010 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS6-4.0-2011-02-17	1102216-23RE1	03/01/11 00:00	6.66	5.00
Blank	1C01010-BLK1	03/01/11 00:00	5.00	5.00
LCS	1C01010-BS1	03/01/11 00:00	5.00	5.00
LCS Dup	1C01010-BSD1	03/01/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1C08004 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS4-2.0-2011-02-16	1102216-14	02/25/11 00:00	5.40	5.00
MPT-1343-SS4-4.0-2011-02-16	1102216-15	02/25/11 00:00	5.15	5.00
Blank	1C08004-BLK1	02/25/11 00:00	5.00	5.00
LCS	1C08004-BS1	02/25/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0208TUN1.D	Injection Date:	02/08/11
Instrument ID:	MS-VOA6	Injection Time:	16:12
Sequence:	1B04025	Lab Sample ID:	1B04025-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.5	PASS
75	30 - 60% of 95	39.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.17	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.4	PASS
175	5 - 9% of 174	7.21	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.33	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0208TUN2.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA6	Injection Time:	06:45
Sequence:	1B04025	Lab Sample ID:	1B04025-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.4	PASS
75	30 - 60% of 95	41.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.69	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	82.1	PASS
175	5 - 9% of 174	7.04	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.33	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0224TUN1.D	Injection Date:	02/24/11
Instrument ID:	MS-VOA6	Injection Time:	08:33
Sequence:	1B05601	Lab Sample ID:	1B05601-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	31	PASS
75	30 - 60% of 95	47.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.01	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	53.7	PASS
175	5 - 9% of 174	7.35	PASS
176	95 - 101% of 174	95.8	PASS
177	5 - 9% of 176	6.58	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0225TUN1.D	Injection Date:	02/25/11
Instrument ID:	MS-VOA6	Injection Time:	07:50
Sequence:	1B05701	Lab Sample ID:	1B05701-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.6	PASS
75	30 - 60% of 95	44.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.7	PASS
175	5 - 9% of 174	7.16	PASS
176	95 - 101% of 174	96.3	PASS
177	5 - 9% of 176	6.28	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0226TUN1.D	Injection Date:	02/26/11
Instrument ID:	MS-VOA6	Injection Time:	10:14
Sequence:	1B05903	Lab Sample ID:	1B05903-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.7	PASS
75	30 - 60% of 95	44.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.15	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.6	PASS
175	5 - 9% of 174	7.17	PASS
176	95 - 101% of 174	96.4	PASS
177	5 - 9% of 176	6.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0301TUN1.D	Injection Date:	03/01/11
Instrument ID:	MS-VOA6	Injection Time:	08:38
Sequence:	1C06108	Lab Sample ID:	1C06108-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.2	PASS
75	30 - 60% of 95	43.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.56	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	87.9	PASS
175	5 - 9% of 174	6.95	PASS
176	95 - 101% of 174	98.5	PASS
177	5 - 9% of 176	6.08	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B04025	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04025-TUN1	0208TUN1.D	02/08/11 16:12
Cal Standard	1B04025-CAL1	0208CAL1.D	02/08/11 16:35
Cal Standard	1B04025-CAL2	0208CAL2.D	02/08/11 16:59
Cal Standard	1B04025-CAL3	0208CAL3.D	02/08/11 17:23
Cal Standard	1B04025-CAL4	0208CAL4.D	02/08/11 17:47
Cal Standard	1B04025-CAL5	0208CAL5.D	02/08/11 18:11
Cal Standard	1B04025-CAL7	0208CAL7.D	02/08/11 18:59
Cal Standard	1B04025-CAL8	0208CAL8.D	02/08/11 19:23
MS Tune	1B04025-TUN2	0208TUN2.D	02/09/11 06:45
Cal Standard	1B04025-CAL6	208CAL6A.D	02/09/11 07:13
Initial Cal Check	1B04025-ICV1	208ICV1A.D	02/09/11 07:37

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05601	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05601-TUN1	0224TUN1.D	02/24/11 08:33
Calibration Check	1B05601-CCV1	0224CCV1.D	02/24/11 09:35
LCS	1B24007-BS1	0224LS1.D	02/24/11 10:16
Blank	1B24007-BLK1	0224BL1.D	02/24/11 11:28
MPT-1343-SS1-2.0-2011-02-16	1102216-02	0221602.D	02/24/11 11:53
MPT-1343-SS1-4.0-2011-02-16	1102216-03	0221603.D	02/24/11 12:17
MPT-1343-SS1-4.5-2011-02-16	1102216-04	0221604.D	02/24/11 12:41
MPT-1343-SS2-2.0-2011-02-16	1102216-06	0221606.D	02/24/11 13:05
MPT-1343-SS2-4.0-2011-02-16	1102216-07	0221607.D	02/24/11 13:30
MPT-1343-SS2-4.5-2011-02-16	1102216-08	0221608.D	02/24/11 13:54
MPT-1343-SS3-2.0-2011-02-16	1102216-10	0221610.D	02/24/11 14:18
MPT-1343-SS3-4.0-2011-02-16	1102216-11	0221611.D	02/24/11 14:43

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05701	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05701-TUN1	0225TUN1.D	02/25/11 07:50
Calibration Check	1B05701-CCV1	0225CCV1.D	02/25/11 08:55
LCS	1C08004-BS1	0225LS1.D	02/25/11 09:31
Blank	1C08004-BLK1	0225BL1.D	02/25/11 10:44
MPT-1343-SS4-2.0-2011-02-16	1102216-14	0221614.D	02/25/11 18:21
MPT-1343-SS4-4.0-2011-02-16	1102216-15	0221615.D	02/25/11 18:46

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05903	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05903-TUN1	0226TUN1.D	02/26/11 10:14
Calibration Check	1B05903-CCV1	0226CCV1.D	02/26/11 10:38
LCS	1B26001-BS1	0226LS1.D	02/26/11 11:13
Blank	1B26001-BLK1	0226BL1.D	02/26/11 12:25
MPT-1343-SS3-4.5-2011-02-16	1102216-12RE1	0221612.D	02/26/11 13:13
MPT-1343-SS4-4.5-2011-02-16	1102216-16	0221616.D	02/26/11 13:37
MPT-1343-SS5-2.0-2011-02-17	1102216-18	0221618.D	02/26/11 14:01
MPT-1343-SS5-4.0-2011-02-17	1102216-19	0221619.D	02/26/11 14:25
MPT-1343-SS5-4.5-2011-02-17	1102216-20	0221620.D	02/26/11 14:49
MPT-1343-SS6-2.0-2011-02-17	1102216-22	0221622.D	02/26/11 15:13
MPT-1343-SS6-4.5-2011-02-17	1102216-24	0221624.D	02/26/11 16:00

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06108	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06108-TUN1	0301TUN1.D	03/01/11 08:38
Calibration Check	1C06108-CCV1	0301CCV1.D	03/01/11 09:02
LCS	1C01010-BS1	0301LS1.D	03/01/11 09:44
Blank	1C01010-BLK1	0301BL1.D	03/01/11 10:56
MPT-1343-SS6-4.0-2011-02-17	1102216-23RE1	0221623.D	03/01/11 11:45
LCS Dup	1C01010-BSD1	0301LD1.D	03/01/11 17:20

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05601
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05601-CCV1)			Lab File ID: 0224CCV1.D			Analyzed: 02/24/11 09:35			
Fluorobenzene	917685	7.95	972174	7.931	94	50 - 200	0.0190	+/-0.50	
Chlorobenzene-d5	405424	11.058	431704	11.049	94	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	391204	13.457	423574	13.439	92	50 - 200	0.0180	+/-0.50	
LCS (1B24007-BS1)			Lab File ID: 0224LS1.D			Analyzed: 02/24/11 10:16			
Fluorobenzene	936707	7.962	917685	7.95	102	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	431386	11.06	405424	11.058	106	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	383977	13.46	391204	13.457	98	50 - 200	0.0030	+/-0.50	
Blank (1B24007-BLK1)			Lab File ID: 0224BL1.D			Analyzed: 02/24/11 11:28			
Fluorobenzene	823650	7.949	917685	7.95	90	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	371444	11.067	405424	11.058	92	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	318777	13.457	391204	13.457	81	50 - 200	0.0000	+/-0.50	
MPT-1343-SS1-2.0-2011-02-16 (1102216-02)			Lab File ID: 0221602.D			Analyzed: 02/24/11 11:53			
Fluorobenzene	790033	7.96	917685	7.95	86	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	352312	11.068	405424	11.058	87	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	288350	13.448	391204	13.457	74	50 - 200	-0.0090	+/-0.50	
MPT-1343-SS1-4.0-2011-02-16 (1102216-03)			Lab File ID: 0221603.D			Analyzed: 02/24/11 12:17			
Fluorobenzene	789928	7.96	917685	7.95	86	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	344906	11.067	405424	11.058	85	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	266121	13.457	391204	13.457	68	50 - 200	0.0000	+/-0.50	
MPT-1343-SS1-4.5-2011-02-16 (1102216-04)			Lab File ID: 0221604.D			Analyzed: 02/24/11 12:41			
Fluorobenzene	818084	7.96	917685	7.95	89	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	366283	11.067	405424	11.058	90	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	318641	13.457	391204	13.457	81	50 - 200	0.0000	+/-0.50	
MPT-1343-SS2-2.0-2011-02-16 (1102216-06)			Lab File ID: 0221606.D			Analyzed: 02/24/11 13:05			
Fluorobenzene	791537	7.97	917685	7.95	86	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	336095	11.068	405424	11.058	83	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	234735	13.458	391204	13.457	60	50 - 200	0.0010	+/-0.50	
MPT-1343-SS2-4.0-2011-02-16 (1102216-07)			Lab File ID: 0221607.D			Analyzed: 02/24/11 13:30			
Fluorobenzene	792765	7.971	917685	7.95	86	50 - 200	0.0210	+/-0.50	
Chlorobenzene-d5	348801	11.069	405424	11.058	86	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	272424	13.459	391204	13.457	70	50 - 200	0.0020	+/-0.50	
MPT-1343-SS2-4.5-2011-02-16 (1102216-08)			Lab File ID: 0221608.D			Analyzed: 02/24/11 13:54			
Fluorobenzene	774660	7.97	917685	7.95	84	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	352520	11.068	405424	11.058	87	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	292516	13.458	391204	13.457	75	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05601
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MPT-1343-SS3-2.0-2011-02-16 (1102216-10)			Lab File ID: 0221610.D			Analyzed: 02/24/11 14:18			
Fluorobenzene	780045	7.963	917685	7.95	85	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	346729	11.071	405424	11.058	86	50 - 200	0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	275894	13.461	391204	13.457	71	50 - 200	0.0040	+/-0.50	
MPT-1343-SS3-4.0-2011-02-16 (1102216-11)			Lab File ID: 0221611.D			Analyzed: 02/24/11 14:43			
Fluorobenzene	647357	7.959	917685	7.95	71	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	270156	11.067	405424	11.058	67	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	202322	13.457	391204	13.457	52	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05701
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05701-CCV1)			Lab File ID: 0225CCV1.D			Analyzed: 02/25/11 08:55			
Fluorobenzene	905633	7.949	972174	7.931	93	50 - 200	0.0180	+/-0.50	
Chlorobenzene-d5	390994	11.057	431704	11.049	91	50 - 200	0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	369736	13.447	423574	13.439	87	50 - 200	0.0080	+/-0.50	
LCS (1C08004-BS1)			Lab File ID: 0225LS1.D			Analyzed: 02/25/11 09:31			
Fluorobenzene	893302	7.949	905633	7.949	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	414186	11.056	390994	11.057	106	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	367357	13.446	369736	13.447	99	50 - 200	-0.0010	+/-0.50	
Blank (1C08004-BLK1)			Lab File ID: 0225BL1.D			Analyzed: 02/25/11 10:44			
Fluorobenzene	780528	7.953	905633	7.949	86	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	351697	11.061	390994	11.057	90	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	305264	13.451	369736	13.447	83	50 - 200	0.0040	+/-0.50	
MPT-1343-SS4-2.0-2011-02-16 (1102216-14)			Lab File ID: 0221614.D			Analyzed: 02/25/11 18:21			
Fluorobenzene	748746	7.948	905633	7.949	83	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	329276	11.056	390994	11.057	84	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	258656	13.445	369736	13.447	70	50 - 200	-0.0020	+/-0.50	
MPT-1343-SS4-4.0-2011-02-16 (1102216-15)			Lab File ID: 0221615.D			Analyzed: 02/25/11 18:46			
Fluorobenzene	772676	7.952	905633	7.949	85	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	349186	11.05	390994	11.057	89	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	299751	13.44	369736	13.447	81	50 - 200	-0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05903-CCV1)			Lab File ID: 0226CCV1.D			Analyzed: 02/26/11 10:38			
Fluorobenzene	853049	7.953	972174	7.931	88	50 - 200	0.0220	+/-0.50	
Chlorobenzene-d5	378508	11.061	431704	11.049	88	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	351633	13.451	423574	13.439	83	50 - 200	0.0120	+/-0.50	
LCS (1B26001-BS1)			Lab File ID: 0226LS1.D			Analyzed: 02/26/11 11:13			
Fluorobenzene	845160	7.953	853049	7.953	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	388152	11.061	378508	11.061	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	344818	13.451	351633	13.451	98	50 - 200	0.0000	+/-0.50	
Blank (1B26001-BLK1)			Lab File ID: 0226BL1.D			Analyzed: 02/26/11 12:25			
Fluorobenzene	748835	7.958	853049	7.953	88	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	339182	11.065	378508	11.061	90	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	306821	13.455	351633	13.451	87	50 - 200	0.0040	+/-0.50	
MPT-1343-SS3-4.5-2011-02-16 (1102216-12RE1)			Lab File ID: 0221612.D			Analyzed: 02/26/11 13:13			
Fluorobenzene	730764	7.957	853049	7.953	86	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	329184	11.065	378508	11.061	87	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	279499	13.455	351633	13.451	79	50 - 200	0.0040	+/-0.50	
MPT-1343-SS4-4.5-2011-02-16 (1102216-16)			Lab File ID: 0221616.D			Analyzed: 02/26/11 13:37			
Fluorobenzene	769113	7.958	853049	7.953	90	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	342745	11.066	378508	11.061	91	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	300657	13.456	351633	13.451	86	50 - 200	0.0050	+/-0.50	
MPT-1343-SS5-2.0-2011-02-17 (1102216-18)			Lab File ID: 0221618.D			Analyzed: 02/26/11 14:01			
Fluorobenzene	740432	7.955	853049	7.953	87	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	331648	11.063	378508	11.061	88	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	280799	13.453	351633	13.451	80	50 - 200	0.0020	+/-0.50	
MPT-1343-SS5-4.0-2011-02-17 (1102216-19)			Lab File ID: 0221619.D			Analyzed: 02/26/11 14:25			
Fluorobenzene	543924	7.953	853049	7.953	64	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	242621	11.061	378508	11.061	64	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	207275	13.451	351633	13.451	59	50 - 200	0.0000	+/-0.50	
MPT-1343-SS5-4.5-2011-02-17 (1102216-20)			Lab File ID: 0221620.D			Analyzed: 02/26/11 14:49			
Fluorobenzene	741662	7.953	853049	7.953	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	330550	11.061	378508	11.061	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	276437	13.451	351633	13.451	79	50 - 200	0.0000	+/-0.50	
MPT-1343-SS6-2.0-2011-02-17 (1102216-22)			Lab File ID: 0221622.D			Analyzed: 02/26/11 15:13			
Fluorobenzene	675710	7.963	853049	7.953	79	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	285216	11.061	378508	11.061	75	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	243660	13.451	351633	13.451	69	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MPT-1343-SS6-4.5-2011-02-17 (1102216-24)			Lab File ID: 0221624.D			Analyzed: 02/26/11 16:00			
Fluorobenzene	801107	7.966	853049	7.953	94	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	308794	11.064	378508	11.061	82	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	259988	13.454	351633	13.451	74	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06108
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06108-CCV1)			Lab File ID: 0301CCV1.D			Analyzed: 03/01/11 09:02			
Fluorobenzene	812927	7.937	972174	7.931	84	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	335140	11.045	431704	11.049	78	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	317936	13.444	423574	13.439	75	50 - 200	0.0050	+/-0.50	
LCS (1C01010-BS1)			Lab File ID: 0301LS1.D			Analyzed: 03/01/11 09:44			
Fluorobenzene	817453	7.939	812927	7.937	101	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	361970	11.047	335140	11.045	108	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	320955	13.437	317936	13.444	101	50 - 200	-0.0070	+/-0.50	
Blank (1C01010-BLK1)			Lab File ID: 0301BL1.D			Analyzed: 03/01/11 10:56			
Fluorobenzene	718422	7.933	812927	7.937	88	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	318467	11.051	335140	11.045	95	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	287008	13.441	317936	13.444	90	50 - 200	-0.0030	+/-0.50	
MPT-1343-SS6-4.0-2011-02-17 (1102216-23RE1)			Lab File ID: 0221623.D			Analyzed: 03/01/11 11:45			
Fluorobenzene	644828	7.953	812927	7.937	79	50 - 200	0.0160	+/-0.50	
Chlorobenzene-d5	238436	11.051	335140	11.045	71	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	252564	13.441	317936	13.444	79	50 - 200	-0.0030	+/-0.50	
LCS Dup (1C01010-BSD1)			Lab File ID: 0301LD1.D			Analyzed: 03/01/11 17:20			
Fluorobenzene	737664	7.943	812927	7.937	91	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	330857	11.051	335140	11.045	99	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	288369	13.441	317936	13.444	91	50 - 200	-0.0030	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	10	3.756483E-02	25.01	3.592496E-02	50.02	3.279747E-02	100	3.027563E-02	250.1	2.616578E-02	500.2	2.836008E-02
Acrylonitrile	9.996	7.751938E-02	24.99	6.934293E-02	49.98	0.1036364	99.96	6.371372E-02	249.9	9.483173E-02	499.8	0.1038235
Benzene	2	1.061782	5	1.085753	10	1.07756	20	1.101538	50	1.062681	100	1.168729
Bromobenzene	2	0.7470029	5	0.690608	10	0.73579	20	0.7029826	50	0.6759098	100	0.7159262
Bromochloromethane	2	0.1531184	5	0.1481263	10	0.1471181	20	0.1476266	50	0.1386942	100	0.1478994
Tert-Amyl Methyl Ether	2	0.7507538	5	0.7660239	10	0.7592371	20	0.7607483	50	0.7115281	100	0.7910823
Bromodichloromethane	2	0.3104988	5	0.3071958	10	0.3190153	20	0.3117362	50	0.3116093	100	0.3449616
Bromoform	2	~~0.2616829~~	5	0.2798085	10	0.3012296	20	0.3115155	50	0.3087993	100	0.3759775
Bromomethane	2	~~7.371335E-02~~	5	7.750693E-02	10	8.466907E-02	20	8.624543E-02	50	0.0937419	100	0.1153427
Bromofluorobenzene	30	0.8301043	30	0.849826	30	0.8264607	30	0.8153727	30	0.7890826	30	0.8544657
n-Butylbenzene	2	2.785165	5	2.617003	10	2.816419	20	2.750954	50	2.622143	100	2.894858
2-Butanone												
sec-Butylbenzene	2	3.151285	5	3.066315	10	3.323505	20	3.301126	50	3.202842	100	3.459591
tert-Butylbenzene	2	2.17391	5	2.031212	10	2.135985	20	2.119383	50	2.039649	100	2.229972
Carbon disulfide	2	0.7149891	5	0.6924307	10	0.7993255	20	0.5551867	50	0.8103692	100	0.9498407
Carbon tetrachloride	2	0.2889103	5	0.2860839	10	0.288463	20	0.3030137	50	0.3080328	100	0.35016
Chlorobenzene	2	1.875558	5	1.771786	10	1.803756	20	1.765153	50	1.690779	100	1.905895
Chloroethane	2	8.705562E-02	5	7.229842E-02	10	8.957504E-02	20	8.400356E-02	50	8.288075E-02	100	8.787256E-02
Chloroform	2	0.4898649	5	0.4751689	10	0.4707317	20	0.4865336	50	0.457359	100	0.5020879
2-Chloroethyl vinyl ether	3.99	0.1848713	9.975	0.1784075	19.95	0.1770296	39.9	0.1763524	99.75	0.1619434	199.5	0.1744515
Chloromethane	2	0.35766	5	0.3572945	10	0.3695839	20	0.3693712	50	0.3945523	100	0.3919691
1-Chlorohexane	2.004	2.22108	5.01	2.023071	10.02	2.169874	20.04	2.118177	50.1	2.018756	100.2	2.112281
2-Chlorotoluene	2	2.026203	5	2.003491	10	2.116461	20	2.10787	50	1.979201	100	2.20004
4-Chlorotoluene	2	2.219507	5	2.256409	10	2.307302	20	2.295402	50	2.228706	100	2.424602
Cyclohexane	2	0.7461476	5	0.6373068	10	0.6643557	20	0.6754938	50	0.6609604	100	0.711204
Dibromochloromethane	2	0.4664542	5	0.4878683	10	0.5045771	20	0.5001025	50	0.4934865	100	0.5950801
1,2-Dibromo-3-chloropropane	2	0.11204	5	0.1045764	10	0.1082321	20	0.1108009	50	0.1044906	100	0.1137534
1,2-Dibromoethane (EDB)	2	0.6004558	5	0.5329797	10	0.4938069	20	0.4902496	50	0.458391	100	0.515838
Dibromomethane	2	0.1753952	5	0.1633735	10	0.1759811	20	0.1750685	50	0.1642084	100	0.1767537
1,2-Dichlorobenzene	2	1.25758	5	1.158089	10	1.202775	20	1.190451	50	1.107789	100	1.182512

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	2	1.313197	5	1.280567	10	1.331553	20	1.320101	50	1.222079	100	1.308105
1,4-Dichlorobenzene	2	1.397145	5	1.336716	10	1.321149	20	1.291749	50	1.239289	100	1.30013
Dichlorodifluoromethane	2	0.2899824	5	0.2433753	10	0.2462849	20	0.2339546	50	0.2969228	100	0.3137854
1,1-Dichloroethane	2	0.5414735	5	0.5528414	10	0.6051287	20	0.5926146	50	0.5757458	100	0.6148422
1,2-Dichloroethane	2	0.293543	5	0.2842689	10	0.2959148	20	0.2875738	50	0.2714845	100	0.3087262
1,1-Dichloroethene	2	~~0.1672813~~	5	0.1708818	10	0.2138923	20	0.1881977	50	0.2206685	100	0.2484578
cis-1,2-Dichloroethene	2	0.3114254	5	0.3106307	10	0.3209246	20	0.3086273	50	0.3079395	100	0.3264114
trans-1,2-Dichloroethene	2	0.2866469	5	0.2498845	10	0.2830028	20	0.2781287	50	0.2772549	100	0.3027944
1,2-Dichloroethene (total)	4	0.2990361	10	0.2802576	20	0.3019637	40	0.293378	100	0.2925972	200	0.3146029
1,2-Dichloropropane	2	0.3763763	5	0.3682909	10	0.365142	20	0.3629965	50	0.3481348	100	0.3742469
1,3-Dichloropropane	2	0.879273	5	0.7939543	10	0.8081485	20	0.7899708	50	0.73429	100	0.8173957
2,2-Dichloropropane	2	0.3242779	5	0.3285206	10	0.3349875	20	0.3345004	50	0.3213804	100	0.3729991
1,1-Dichloropropene	2	0.3884081	5	0.3484738	10	0.3805441	20	0.3847533	50	0.3792585	100	0.4104046
cis-1,3-Dichloropropene	2	0.4344839	5	0.4350143	10	0.4301103	20	0.4335544	50	0.4170583	100	0.4573277
trans-1,3-Dichloropropene	2	0.7683201	5	0.7138107	10	0.7232023	20	0.7117684	50	0.6927822	100	0.7933086
Diisopropyl Ether	2	1.643891	5	1.595466	10	1.621821	20	1.620216	50	1.573697	100	1.707769
Ethylbenzene	2	3.006193	5	2.923263	10	3.07896	20	3.067902	50	2.95293	100	3.41056
Ethyl tert-Butyl Ether	2	0.9974004	5	0.9712783	10	0.9963493	20	0.9846551	50	0.9564952	100	1.075788
Ethyl Methacrylate	2	0.8625155	5	0.8436295	10	0.7624561	20	0.7667309	50	0.7163738	100	0.8089864
Hexachlorobutadiene	2	0.4575836	5	0.4341365	10	0.4659515	20	0.4715648	50	0.4532541	100	0.5045612
2-Hexanone												
Iodomethane	2	0.248407	5	0.2548802	10	0.3049656	20	0.279838	50	0.3250018	100	0.3519559
Isopropylbenzene	2	2.294059	5	2.285611	10	2.452665	20	2.37677	50	2.275532	100	2.581928
p-Isopropyltoluene	2	2.309628	5	2.135441	10	2.337972	20	2.332356	50	2.269986	100	2.487688
Methylene chloride	2	0.7552542	5	0.4559193	10	0.3996641	20	0.2317498	50	0.2907731	100	0.3130779
Methyl Acetate	2	0.2236285	5	0.2514748	10	0.2597989	20	0.1718908	50	0.2310738	100	0.2529856
Methylcyclohexane	2	0.5012217	5	0.4741875	10	0.5071525	20	0.5214485	50	0.502103	100	0.5426753
Naphthalene	2	1.780473	5	1.614442	10	1.578626	20	1.557813	50	1.429284	100	1.560273
Methyl Methacrylate	2	0.48326	5	0.4803774	10	0.4711374	20	0.4626519	50	0.4558675	100	0.4859491
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	2	0.5759807	5	0.5826558	10	0.5951922	20	0.5754943	50	0.5694992	100	0.638687

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	2	3.79603	5	3.545272	10	3.80743	20	3.780267	50	3.661068	100	4.13336
Styrene	2	1.927309	5	1.80957	10	1.873548	20	1.872612	50	1.750939	100	1.970078
1,1,2,2-Tetrachloroethane	2	0.6828267	5	0.7255559	10	0.7090542	20	0.6776878	50	0.6315376	100	0.71698
1,1,1,2-Tetrachloroethane	2	0.6138791	5	0.5872829	10	0.6046367	20	0.6078519	50	0.5767041	100	0.6580373
tert-Butyl alcohol	10	3.247147E-02	25	2.832816E-02	50	2.641692E-02	100	2.675249E-02	250	2.407234E-02	500	2.525515E-02
Tetrachloroethene	2	0.6411317	5	0.5516078	10	0.6071488	20	0.5940988	50	0.5687704	100	0.6485346
Toluene	2	1.653855	5	1.500784	10	1.608872	20	1.546331	50	1.509546	100	1.656163
1,2,3-Trichlorobenzene	2	0.7095767	5	0.7003469	10	0.7116627	20	0.6956501	50	0.6350796	100	0.6810502
1,2,4-Trichlorobenzene	2	0.8162488	5	0.7952111	10	0.7953906	20	0.7745676	50	0.7371004	100	0.7827231
1,1,2-Trichloroethane	2	0.5007809	5	0.4659105	10	0.4662858	20	0.4427537	50	0.416613	100	0.4616935
1,1,1-Trichloroethane	2	0.3368524	5	0.3178967	10	0.3316859	20	0.3398842	50	0.3373299	100	0.3698448
Tetrahydrofuran	2	0.2155278	5	0.1543103	10	0.118979	20	0.1078508	50	9.851796E-02	100	0.1062613
Trichloroethene	2	0.328765	5	0.2905771	10	0.2943873	20	0.3047147	50	0.2969598	100	0.3201752
Trichlorofluoromethane	2	0.4417375	5	0.4173432	10	0.4186727	20	0.4473662	50	0.4334278	100	0.4536805
1,2,3-Trichloropropane	2	0.1627907	5	0.1329942	10	0.134935	20	0.1426108	50	0.1239256	100	0.1396684
1,3,5-Trimethylbenzene	2	2.255114	5	2.173421	10	2.276182	20	2.202211	50	2.172413	100	2.372903
1,2,4-Trimethylbenzene	2	2.309479	5	2.14176	10	2.199332	20	2.211839	50	2.158688	100	2.3911
1,1,2-Trichloro-1,2,2-trifluoroethan	2	0.268791	5	0.2260116	10	0.2709447	20	0.2430542	50	0.2542092	100	0.2843963
Vinyl chloride	2	0.2231652	5	0.1838824	10	0.1648936	20	0.1664933	50	0.2255206	100	0.2109722
m,p-Xylene	4	2.356566	10	2.201289	20	2.300586	40	2.335069	100	2.271009	200	2.481994
o-Xylene	2	2.296002	5	2.225227	10	2.338918	20	2.313981	50	2.173523	100	2.494403
Vinyl acetate	3.998	0.4521423	9.995	0.4534324	19.99	0.4418868	39.98	0.4271593	99.95	0.4198531	199.9	0.4560466
Xylenes (total)	6	2.336378	15	2.209268	30	2.313363	60	2.328039	150	2.238513	300	2.48613
Dibromofluoromethane	30	0.2988129	30	0.2996363	30	0.2905854	30	0.2955724	30	0.2971521	30	0.3075259
1,2-Dichloroethane-d4	30	5.968633E-02	30	5.947716E-02	30	5.530486E-02	30	5.696298E-02	30	5.913587E-02	30	0.0591198
Toluene-d8	30	2.123717	30	2.131698	30	2.11596	30	2.034826	30	2.028679	30	2.169641
tert-Amyl alcohol	10	2.774079E-02	25	0.0266787	50	2.668582E-02	100	2.719233E-02	250	2.468558E-02	500	2.532327E-02
tert-Amyl ethyl ether	2	0.8583258	5	0.850034	10	0.8687331	20	0.8675918	50	0.8495265	100	0.9293077

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone					4	8.470745E-02	10	8.915309E-02	20	8.285134E-02	40	7.250014E-02
Acrolein	750.3	2.838079E-02	1000	2.600032E-02								
Acrylonitrile	749.7	0.1024932	999.6	9.546004E-02								
Benzene	150	1.192145	200	1.155082								
Bromobenzene	150	0.7302519	200	0.7329693								
Bromochloromethane	150	0.1491289	200	0.1443947								
Tert-Amyl Methyl Ether	150	0.807724	200	0.7867898								
Bromodichloromethane	150	0.3531789	200	0.3510862								
Bromoform	150	0.4028367	200	~~0.4128355~~								
Bromomethane	150	0.1015578	200	0.1000582								
Bromofluorobenzene	30	0.8640198	30	0.8813654								
n-Butylbenzene	150	2.870467	200	2.722726								
2-Butanone					4	0.1330208	10	0.1701131	20	0.1749022	40	0.1609534
sec-Butylbenzene	150	3.480445	200	3.296109								
tert-Butylbenzene	150	2.240936	200	2.192407								
Carbon disulfide	150	0.9301783	200	0.8994057								
Carbon tetrachloride	150	0.3521533	200	0.338749								
Chlorobenzene	150	2.022008	200	2.042233								
Chloroethane	150	8.393602E-02	200	8.074598E-02								
Chloroform	150	0.5073668	200	0.4925365								
2-Chloroethyl vinyl ether	299.2	0.1762279	399	0.1688767								
Chloromethane	150	0.3887158	200	0.3704813								
1-Chlorohexane	150.3	2.01726	200.4	1.885388								
2-Chlorotoluene	150	2.239528	200	2.201793								
4-Chlorotoluene	150	2.466821	200	2.43551								
Cyclohexane	150	0.7164013	200	0.6757709								
Dibromochloromethane	150	0.6469215	200	0.6589571								
1,2-Dibromo-3-chloropropane	150	0.1180717	200	0.1164974								
1,2-Dibromoethane (EDB)	150	0.5513408	200	0.5571805								
Dibromomethane	150	0.1775397	200	0.1716395								
1,2-Dichlorobenzene	150	1.205745	200	1.236032								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	150	1.326823	200	1.310985								
1,4-Dichlorobenzene	150	1.329174	200	1.311361								
Dichlorodifluoromethane	150	0.294192	200	0.2759141								
1,1-Dichloroethane	150	0.6166086	200	0.5947691								
1,2-Dichloroethane	150	0.3026457	200	0.3034343								
1,1-Dichloroethene	150	0.1785913	200	~~0.2416956~~								
cis-1,2-Dichloroethene	150	0.3297915	200	0.3192484								
trans-1,2-Dichloroethene	150	0.2978576	200	0.2889025								
1,2-Dichloroethene (total)	300	0.3138245	400	0.3040755								
1,2-Dichloropropane	150	0.3778939	200	0.3725401								
1,3-Dichloropropane	150	0.8986319	200	0.8784469								
2,2-Dichloropropane	150	0.3617797	200	0.3482468								
1,1-Dichloropropene	150	0.4099157	200	0.3932496								
cis-1,3-Dichloropropene	150	0.469431	200	0.4523565								
trans-1,3-Dichloropropene	150	0.8248023	200	0.802177								
Diisopropyl Ether	150	1.730807	200	1.694548								
Ethylbenzene	150	3.651297	200	3.573134								
Ethyl tert-Butyl Ether	150	1.079763	200	1.057801								
Ethyl Methacrylate	150	0.8710207	200	0.8578263								
Hexachlorobutadiene	150	0.4984486	200	0.5033677								
2-Hexanone					4	0.649287	10	0.637436	20	0.6198641	40	0.6138946
Iodomethane	150	0.3500682	200	~~0.3742377~~								
Isopropylbenzene	150	2.784682	200	2.727285								
p-Isopropyltoluene	150	2.44157	200	2.332893								
Methylene chloride	150	0.309667	200	0.3027675								
Methyl Acetate	150	0.2510632	200	~~0.223989~~								
Methylcyclohexane	150	0.5392906	200	0.5146507								
Naphthalene	150	1.643224	200	1.657041								
Methyl Methacrylate	150	0.4831825	200	0.4512382								
4-Methyl-2-pentanone					4	0.3733068	10	0.4147558	20	0.3954946	40	0.3765838
Methyl t-Butyl Ether	150	0.6360249	200	0.6284265								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	150	4.002939	200	3.703082								
Styrene	150	2.111887	200	2.10262								
1,1,2,2-Tetrachloroethane	150	0.6980061	200	0.6850432								
1,1,1,2-Tetrachloroethane	150	0.7068497	200	0.7111916								
tert-Butyl alcohol	750	2.532031E-02	1000	2.506596E-02								
Tetrachloroethene	150	0.6992434	200	0.6850495								
Toluene	150	1.706061	200	1.604325								
1,2,3-Trichlorobenzene	150	0.7278232	200	0.7516194								
1,2,4-Trichlorobenzene	150	0.8125712	200	0.8332477								
1,1,2-Trichloroethane	150	0.4953458	200	0.4956092								
1,1,1-Trichloroethane	150	0.3669203	200	0.3572786								
Tetrahydrofuran	150	0.1030719	200	9.688072E-02								
Trichloroethene	150	0.3226635	200	0.3110056								
Trichlorofluoromethane	150	0.4505598	200	0.3669905								
1,2,3-Trichloropropane	150	0.1471629	200	0.1448242								
1,3,5-Trimethylbenzene	150	2.367285	200	2.354633								
1,2,4-Trimethylbenzene	150	2.425007	200	2.350211								
1,1,2-Trichloro-1,2,2-trifluoroethan	150	0.2343912	200	0.2778142								
Vinyl chloride	150	0.1769872	200	0.1586922								
m,p-Xylene	300	2.402223	400	2.220402								
o-Xylene	150	2.704775	200	2.61654								
Vinyl acetate	299.8	0.4630155	399.8	0.4347041								
Xylenes (total)	450	2.503073	600	2.352449								
Dibromofluoromethane	30	0.3024829	30	0.301783								
1,2-Dichloroethane-d4	30	5.607005E-02	30	0.0572409								
Toluene-d8	30	2.255154	30	2.324347								
tert-Amyl alcohol	750	2.609744E-02	1000	2.452795E-02								
tert-Amyl ethyl ether	150	0.9427317	200	0.9137197								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	100	6.862368E-02	200	0.071894	300	7.060606E-02	400	6.814481E-02				
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	100	0.1617353	200	0.1751666	300	0.1783483	400	0.1715294				
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	100	0.5779477	200	0.6258995	300	0.6538966	400	0.6288518				
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	100	0.3698155	200	0.3970651	300	0.4166396	400	0.4044311				
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	7.606007E-02	10.77375	3.791625	0.2559776			15	
Acrolein	3.068373E-02	14.17936	3.687375	0.266829			15	
Acrylonitrile	8.885261E-02	18.29246	4.637625	0.1611173	0.9961602		0.995	
Benzene	1.113159	4.608946	7.67675	4.449891E-02			15	
Bromobenzene	0.7164301	3.444919	12.40125	2.882236E-02			15	
Bromochloromethane	0.1470133	2.818947	6.77675	6.962075E-02			15	
Tert-Amyl Methyl Ether	0.7667359	3.84088	7.868625	0.0369654			15	
Bromodichloromethane	0.3261603	6.110637	8.6565	0.0395075			15	
Bromoform	0.3300278	14.56769	11.81133	3.114238E-02			SPCC (0.1)	
Bromomethane	9.416029E-02	13.49252	2.841429	0.3399494			15	
Bromofluorobenzene	0.8388372	3.508578	12.24	0.0295681			15	
n-Butylbenzene	2.759967	3.753642	13.82862	1.990092E-02			15	
2-Butanone	0.1657211	8.815262	6.23675	9.832357E-02			15	
sec-Butylbenzene	3.285152	4.35073	13.29013	3.345705E-02			15	
tert-Butylbenzene	2.145432	3.707538	13.05663	2.013395E-02			15	
Carbon disulfide	0.7939658	17.02013	4.8035	0.1982975	0.9975385		0.995	
Carbon tetrachloride	0.3144458	8.98804	7.644625	5.435293E-02			15	
Chlorobenzene	1.859646	6.752518	11.08463	2.703025E-02			SPCC (0.3)	
Chloroethane	8.354599E-02	6.438411	2.97925	0.3520969			15	
Chloroform	0.4852062	3.430147	6.7485	5.313365E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.17477	3.894887	9.0105	4.037457E-02			15	
Chloromethane	0.3749535	3.973692	2.239125	0.4681154			SPCC (0.1)	
1-Chlorohexane	2.070736	5.11712	11.051	3.853776E-02			15	
2-Chlorotoluene	2.109323	4.700997	12.6225	3.341376E-02			15	
4-Chlorotoluene	2.329282	4.243641	12.68525	2.421974E-02			15	
Cyclohexane	0.685955	5.186082	7.5735	5.633159E-02			15	
Dibromochloromethane	0.5441809	14.16857	10.3225	3.125264E-02			15	
1,2-Dibromo-3-chloropropane	0.1110578	4.56858	14.43113	0.0227997			15	
1,2-Dibromoethane (EDB)	0.5250303	8.57485	10.53375	2.690444E-02			15	
Dibromomethane	0.172495	3.274856	8.595125	3.800596E-02			15	
1,2-Dichlorobenzene	1.192622	3.865282	13.789	1.366507E-02			15	
1,3-Dichlorobenzene	1.301676	2.74033	13.3795	3.011168E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.315839	3.393764	13.47213	2.224884E-02			15	
Dichlorodifluoromethane	0.2743014	10.74781	2.016625	0.5619011			15	
1,1-Dichloroethane	0.586753	4.750245	5.793375	7.525912E-02			SPCC (0.1)	
1,2-Dichloroethane	0.2934489	4.123627	7.505875	5.038248E-02			15	
1,1-Dichloroethene	0.2034482	14.48541	4.277667	0.1728932			CCC (20)	
cis-1,2-Dichloroethene	0.3168749	2.657418	6.4965	8.574096E-02			15	
trans-1,2-Dichloroethene	0.283059	5.687211	5.419625	8.226152E-02			15	
1,2-Dichloroethene (total)	0.2999669	3.809693	0	0			15	
1,2-Dichloropropane	0.3682027	2.627754	8.4795	4.454179E-02			CCC (20)	
1,3-Dichloropropane	0.8250139	6.792829	10.06175	0.0225482			15	
2,2-Dichloropropane	0.3408366	5.440234	6.602125	6.320189E-02			15	
1,1-Dichloropropene	0.386876	5.080917	7.524375	0.0579442			15	
cis-1,3-Dichloropropene	0.441167	3.859299	9.22575	3.273881E-02			15	
trans-1,3-Dichloropropene	0.7537714	6.572131	9.69775	2.998173E-02			15	
Diisopropyl Ether	1.648527	3.427531	6.164375	8.144213E-02			15	
Ethylbenzene	3.20803	9.080474	11.2305	3.248409E-02			CCC (20)	
Ethyl tert-Butyl Ether	1.014941	4.802987	6.624375	5.856448E-02			15	
Ethyl Methacrylate	0.8111924	7.03362	9.88475	3.023834E-02			15	
Hexachlorobutadiene	0.4736085	5.501745	15.78825	2.462656E-02			15	
2-Hexanone	0.6258846	3.796589	9.999875	5.270258E-02			15	
Iodomethane	0.3021595	14.1237	4.468714	0.194976			15	
Isopropylbenzene	2.472317	8.225239	12.12925	2.846195E-02			15	
p-Isopropyltoluene	2.330942	4.564871	13.4265	0.02919			15	
Methylene chloride	0.3823591	43.34252	4.754375	0.1602236	0.9983757		0.995	
Methyl Acetate	0.2345594	13.01771	4.628714	0.1631094			15	
Methylcyclohexane	0.5128412	4.32501	8.80775	0.0356778			15	
Naphthalene	1.602647	6.275391	15.66025	1.983775E-02			15	
Methyl Methacrylate	0.471708	2.883842	7.5735	5.633159E-02			15	
4-Methyl-2-pentanone	0.3935115	4.684102	9.15025	7.573038E-02			15	
Methyl t-Butyl Ether	0.6002451	4.891206	5.423375	0.1227064			15	
n-Propylbenzene	3.803681	4.930978	12.5375	2.980661E-02			15	
Styrene	1.92732	6.721793	11.704	2.493567E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6908364	4.258784	12.05575	3.119017E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6333042	8.281663	11.1275	3.464365E-02			15	
tert-Butyl alcohol	2.671035E-02	9.966665	4.427375	0.2216083			15	
Tetrachloroethene	0.6244481	8.506563	10.43312	3.100488E-02			15	
Toluene	1.598242	4.627079	9.70025	4.291451E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.7016011	4.889794	15.94525	2.154844E-02			15	
1,2,4-Trichlorobenzene	0.7933826	3.727781	15.508	1.845566E-02			15	
1,1,2-Trichloroethane	0.468124	6.206816	9.8525	3.322686E-02			15	
1,1,1-Trichloroethane	0.3447116	5.271122	7.3065	4.409785E-02			15	
Tetrahydrofuran	0.125175	32.67256	6.962375	9.085995E-02	0.9977438		0.995	
Trichloroethene	0.308656	4.617016	8.43125	5.007405E-02			15	
Trichlorofluoromethane	0.4287223	6.644425	3.48675	0.268437			15	
1,2,3-Trichloropropane	0.141114	8.142237	12.1785	2.715286E-02			15	
1,3,5-Trimethylbenzene	2.27177	3.75346	12.7145	2.609472E-02			15	
1,2,4-Trimethylbenzene	2.273427	4.81283	13.08825	1.976355E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2574515	8.290995	4.35	0.1908188			15	
Vinyl chloride	0.1888258	14.37893	2.38775	0.3384152			CCC (20)	
m,p-Xylene	2.321142	4.033096	11.34387	3.895987E-02			15	
o-Xylene	2.395421	7.925602	11.73375	4.033886E-02			15	
Vinyl acetate	0.44353	3.427564	5.86575	0.0758661			15	
Xylenes (total)	2.345902	4.444014	0	0			15	
Dibromofluoromethane	0.2991939	1.6886	6.921875	7.311495E-02			15	
1,2-Dichloroethane-d4	5.787474E-02	2.926794	7.41575	6.396857E-02			15	
Toluene-d8	2.148003	4.720766	9.625	2.169328E-02			15	
tert-Amyl alcohol	2.611649E-02	4.492563	7.122	5.407818E-02			15	
tert-Amyl ethyl ether	0.8849963	4.245319	8.745	4.184207E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	208ICV1A.D	Calibration Date:	02/08/11 16:35
Sequence:	1B04025	Injection Date:	02/09/11
Lab Sample ID:	1B04025-ICV1	Injection Time:	07:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	104.0	1.113159	1.157594		4.0	20
Ethylbenzene	A	100.0	104.9	3.20803	3.364976		4.9	20
Methyl t-Butyl Ether	A	200.0	214.0	0.6002451	0.6421448		7.0	20
Toluene	A	100.0	104.5	1.598242	1.670356		4.5	20
Xylenes (total)	A	300.0	315.0	2.345902	2.462529		5.0	20
Bromofluorobenzene	A	30.00	29.16	0.8388372	0.8154046		-2.8	20
Dibromofluoromethane	A	30.00	29.51	0.2991939	0.2943467		-1.6	20
1,2-Dichloroethane-d4	A	30.00	29.91	5.787474E-02	5.770697E-02		-0.3	20
Toluene-d8	A	30.00	29.62	2.148003	2.120858		-1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0224CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1B05601	Injection Date:	02/24/11
Lab Sample ID:	1B05601-CCV1	Injection Time:	09:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Benzene	A	100.0	112.3	1.113159	1.24984		12.3	20	
Ethylbenzene	A	100.0	116.4	3.20803	3.735238		16.4	20	
Methyl t-Butyl Ether	A	100.0	136.1	0.6002451	0.8171536		36.1	20	*
Toluene	A	100.0	112.2	1.598242	1.793634		12.2	20	
Xylenes (total)	A	300.0	348.7	2.345902	2.726985		16.2	20	
Bromofluorobenzene	A	30.00	29.62	0.8388372	0.8283723		-1.2	20	
Dibromofluoromethane	A	30.00	30.00	0.2991939	0.2992051		0.004	20	
1,2-Dichloroethane-d4	A	30.00	30.12	5.787474E-02	5.810273E-02		0.4	20	
Toluene-d8	A	30.00	29.88	2.148003	2.139301		-0.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0225CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1B05701	Injection Date:	02/25/11
Lab Sample ID:	1B05701-CCV1	Injection Time:	08:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Benzene	A	100.0	106.8	1.113159	1.189366		6.8	20	
Ethylbenzene	A	100.0	113.7	3.20803	3.647238		13.7	20	
Methyl t-Butyl Ether	A	100.0	122.5	0.6002451	0.7352147		22.5	20	*
Toluene	A	100.0	109.0	1.598242	1.741795		9.0	20	
Xylenes (total)	A	300.0	335.9	2.345902	2.626654		12.0	20	
Bromofluorobenzene	A	30.00	29.60	0.8388372	0.8276725		-1.3	20	
Dibromofluoromethane	A	30.00	30.39	0.2991939	0.3031062		1.3	20	
1,2-Dichloroethane-d4	A	30.00	30.55	5.787474E-02	5.893336E-02		1.8	20	
Toluene-d8	A	30.00	29.67	2.148003	2.124552		-1.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0226CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1B05903	Injection Date:	02/26/11
Lab Sample ID:	1B05903-CCV1	Injection Time:	10:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	85.51	1.113159	0.9518601		-14.5	20
Ethylbenzene	A	100.0	89.34	3.20803	2.866227		-10.7	20
Methyl t-Butyl Ether	A	100.0	94.27	0.6002451	0.5658709		-5.7	20
Toluene	A	100.0	87.30	1.598242	1.395195		-12.7	20
Xylenes (total)	A	300.0	270.7	2.345902	2.116751		-9.8	20
Bromofluorobenzene	A	30.00	29.25	0.8388372	0.8178242		-2.5	20
Dibromofluoromethane	A	30.00	30.13	0.2991939	0.3004681		0.4	20
1,2-Dichloroethane-d4	A	30.00	28.87	5.787474E-02	5.570137E-02		-3.8	20
Toluene-d8	A	30.00	29.48	2.148003	2.111134		-1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0301CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1C06108	Injection Date:	03/01/11
Lab Sample ID:	1C06108-CCV1	Injection Time:	09:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	91.07	1.113159	1.013711		-8.9	20
Ethylbenzene	A	100.0	103.0	3.20803	3.305485		3.0	20
Methyl t-Butyl Ether	A	100.0	100.7	0.6002451	0.6044683		0.7	20
Toluene	A	100.0	96.33	1.598242	1.539548		-3.7	20
Xylenes (total)	A	300.0	309.0	2.345902	2.416809		3.0	20
Bromofluorobenzene	A	30.00	30.21	0.8388372	0.844826		0.7	20
Dibromofluoromethane	A	30.00	29.35	0.2991939	0.2927458		-2.2	20
1,2-Dichloroethane-d4	A	30.00	29.04	5.787474E-02	5.602102E-02		-3.2	20
Toluene-d8	A	30.00	30.39	2.148003	2.175867		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B24007-BLK1 File ID: 0224BL1.D

Sampled: Prepared: Analyzed: 02/24/11 11:28

Solids: Preparation: 5035 Dilution:

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	X U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.07	96.9	85 - 120	
Dibromofluoromethane	30.00	30.05	100	80 - 125	
1,2-Dichloroethane-d4	30.00	33.59	112	75 - 140	
Toluene-d8	30.00	28.65	95.5	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B24007-BS1 File ID: 0224LS1.D

Sampled: Prepared: Analyzed: 02/24/11 10:16

Solids: Preparation: 5035 Dilution:

Batch: 1B24007 Sequence: 1B05601 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	51.09	1.25	2.50	5.00	
100-41-4	Ethylbenzene	51.51	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	110.6	1.25	2.50	5.00	X
108-88-3	Toluene	51.56	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	161.4	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.85	92.8	85 - 120	
Dibromofluoromethane	30.00	29.54	98.5	80 - 125	
1,2-Dichloroethane-d4	30.00	29.63	98.8	75 - 140	
Toluene-d8	30.00	28.35	94.5	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26001-BLK1 File ID: 0226BL1.D

Sampled: Prepared: Analyzed: 02/26/11 12:25

Solids: Preparation: 5035 Dilution:

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.08	96.9	85 - 120	
Dibromofluoromethane	30.00	28.71	95.7	80 - 125	
1,2-Dichloroethane-d4	30.00	32.20	107	75 - 140	
Toluene-d8	30.00	28.90	96.3	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26001-BS1 File ID: 0226LS1.D

Sampled: Prepared: Analyzed: 02/26/11 11:13

Solids: Preparation: 5035 Dilution:

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	43.89	1.25	2.50	5.00	
100-41-4	Ethylbenzene	43.31	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	46.94	1.25	2.50	5.00	
108-88-3	Toluene	44.40	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	136.6	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.03	93.4	85 - 120	
Dibromofluoromethane	30.00	29.90	99.7	80 - 125	
1,2-Dichloroethane-d4	30.00	28.61	95.4	75 - 140	
Toluene-d8	30.00	28.04	93.5	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C01010-BLK1 File ID: 0301BL1.D

Sampled: Prepared: Analyzed: 03/01/11 10:56

Solids: Preparation: 5035 Dilution:

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.04	96.8	85 - 120	
Dibromofluoromethane	30.00	30.14	100	80 - 125	
1,2-Dichloroethane-d4	30.00	31.51	105	75 - 140	
Toluene-d8	30.00	28.99	96.6	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C01010-BS1 File ID: 0301LS1.D

Sampled: Prepared: Analyzed: 03/01/11 09:44

Solids: Preparation: 5035 Dilution:

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	49.79	1.25	2.50	5.00	
100-41-4	Ethylbenzene	51.11	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.14	1.25	2.50	5.00	
108-88-3	Toluene	51.50	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	160.4	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.02	93.4	85 - 120	
Dibromofluoromethane	30.00	29.62	98.7	80 - 125	
1,2-Dichloroethane-d4	30.00	29.09	97.0	75 - 140	
Toluene-d8	30.00	28.55	95.2	85 - 115	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C01010-BSD1 File ID: 0301LD1.D

Sampled: Prepared: Analyzed: 03/01/11 17:20

Solids: Preparation: 5035 Dilution:

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	54.84	1.25	2.50	5.00	
100-41-4	Ethylbenzene	54.82	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	61.42	1.25	2.50	5.00	
108-88-3	Toluene	55.08	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	172.1	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.94	93.1	85 - 120	
Dibromofluoromethane	30.00	28.77	95.9	80 - 125	
1,2-Dichloroethane-d4	30.00	28.86	96.2	75 - 140	
Toluene-d8	30.00	28.61	95.4	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C08004-BLK1 File ID: 0225BL1.D

Sampled: Prepared: Analyzed: 02/25/11 10:44

Solids: Preparation: 5035 Dilution:

Batch: 1C08004 Sequence: 1B05701 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	X U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.65	95.5	85 - 120	
Dibromofluoromethane	30.00	30.19	101	80 - 125	
1,2-Dichloroethane-d4	30.00	32.75	109	75 - 140	
Toluene-d8	30.00	28.98	96.6	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C08004-BS1 File ID: 0225LS1.D

Sampled: Prepared: Analyzed: 02/25/11 09:31

Solids: Preparation: 5035 Dilution:

Batch: 1C08004 Sequence: 1B05701 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	52.26	1.25	2.50	5.00	
100-41-4	Ethylbenzene	50.95	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	58.49	1.25	2.50	5.00	X
108-88-3	Toluene	51.23	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	161.8	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.16	93.9	85 - 120	
Dibromofluoromethane	30.00	30.28	101	80 - 125	
1,2-Dichloroethane-d4	30.00	30.00	100	75 - 140	
Toluene-d8	30.00	27.78	92.6	85 - 115	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS1-2.0-2011-02-16	02/16/11 10:30	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 11:53	8.10	14.00	
MPT-1343-SS1-4.0-2011-02-16	02/16/11 10:40	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 12:17	8.11	14.00	
MPT-1343-SS1-4.5-2011-02-16	02/16/11 10:50	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 12:41	8.12	14.00	
MPT-1343-SS2-2.0-2011-02-16	02/16/11 11:30	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 13:05	8.11	14.00	
MPT-1343-SS2-4.0-2011-02-16	02/16/11 11:40	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 13:30	8.12	14.00	
MPT-1343-SS2-4.5-2011-02-16	02/16/11 11:45	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 13:54	8.13	14.00	
MPT-1343-SS3-2.0-2011-02-16	02/16/11 14:10	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 14:18	8.05	14.00	
MPT-1343-SS3-4.0-2011-02-16	02/16/11 14:20	02/21/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 14:43	8.06	14.00	
MPT-1343-SS3-4.5-2011-02-16	02/16/11 14:25	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 13:13	9.99	14.00	
MPT-1343-SS4-2.0-2011-02-16	02/16/11 15:25	02/21/11 08:45	02/25/11 00:00	N/A	14.00	02/25/11 18:21	9.16	14.00	
MPT-1343-SS4-4.0-2011-02-16	02/16/11 15:30	02/21/11 08:45	02/25/11 00:00	N/A	14.00	02/25/11 18:46	9.18	14.00	
MPT-1343-SS4-4.5-2011-02-16	02/16/11 15:35	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 13:37	9.96	14.00	
MPT-1343-SS5-2.0-2011-02-17	02/17/11 10:05	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 14:01	9.21	14.00	
MPT-1343-SS5-4.0-2011-02-17	02/17/11 10:10	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 14:25	9.22	14.00	
MPT-1343-SS5-4.5-2011-02-17	02/17/11 10:15	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 14:49	9.23	14.00	
MPT-1343-SS6-2.0-2011-02-17	02/17/11 11:05	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 15:13	9.21	14.00	
MPT-1343-SS6-4.0-2011-02-17	02/17/11 11:15	02/21/11 08:45	03/01/11 00:00	N/A	14.00	03/01/11 11:45	12.06	14.00	
MPT-1343-SS6-4.5-2011-02-17	02/17/11 11:20	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 16:00	9.24	14.00	

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

MPT-1343-SS1-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-01 File ID: 0221601D.D

Sampled: 02/16/11 10:25 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 17:13

Solids: 92.65 Preparation: EXT_3546 Dilution: 5

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		8.72	17.4	34.8	U
208-96-8	Acenaphthylene		8.72	17.4	34.8	U
120-12-7	Anthracene		8.72	17.4	34.8	U
56-55-3	Benzo(a)anthracene	80.6	8.72	17.4	34.8	D
50-32-8	Benzo(a)pyrene	17.6	8.72	17.4	34.8	D I
205-99-2	Benzo(b)fluoranthene	23.4	8.72	17.4	34.8	D I
191-24-2	Benzo(g,h,i)perylene		8.72	17.4	34.8	U
207-08-9	Benzo(k)fluoranthene		8.72	17.4	34.8	U
218-01-9	Chrysene	13.1	8.72	17.4	34.8	D I
53-70-3	Dibenz(a,h)anthracene		8.72	17.4	34.8	U
206-44-0	Fluoranthene	18.1	8.72	17.4	34.8	D I
86-73-7	Fluorene		8.72	17.4	34.8	U
193-39-5	Indeno(1,2,3-cd)pyrene		8.72	17.4	34.8	N U
90-12-0	1-Methylnaphthalene		8.72	17.4	34.8	U
91-57-6	2-Methylnaphthalene		8.72	17.4	34.8	U
91-20-3	Naphthalene		8.72	17.4	34.8	U
85-01-8	Phenanthrene		8.72	17.4	34.8	U
129-00-0	Pyrene	19.1	8.72	17.4	34.8	D I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3482	2711	77.9	14 - 129	
Terphenyl-d14	3482	2568	73.7	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS1-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-02 File ID: 0221602.D

Sampled: 02/16/11 10:30 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 18:29

Solids: 87.55 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.81	3.61	7.23	U
208-96-8	Acenaphthylene		1.81	3.61	7.23	U
120-12-7	Anthracene	2.44	1.81	3.61	7.23	I
56-55-3	Benzo(a)anthracene	21.2	1.81	3.61	7.23	
50-32-8	Benzo(a)pyrene	10.5	1.81	3.61	7.23	
205-99-2	Benzo(b)fluoranthene	16.8	1.81	3.61	7.23	
191-24-2	Benzo(g,h,i)perylene	8.17	1.81	3.61	7.23	
207-08-9	Benzo(k)fluoranthene	6.16	1.81	3.61	7.23	I
218-01-9	Chrysene	8.49	1.81	3.61	7.23	
53-70-3	Dibenz(a,h)anthracene		1.81	3.61	7.23	U
206-44-0	Fluoranthene	17.1	1.81	3.61	7.23	
86-73-7	Fluorene		1.81	3.61	7.23	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.40	1.81	3.61	7.23	I
90-12-0	1-Methylnaphthalene	2.85	1.81	3.61	7.23	I
91-57-6	2-Methylnaphthalene	3.57	1.81	3.61	7.23	I
91-20-3	Naphthalene	3.44	1.81	3.61	7.23	I
85-01-8	Phenanthrene	10.1	1.81	3.61	7.23	
129-00-0	Pyrene	14.2	1.81	3.61	7.23	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3615	2985	82.6	14 - 129	
Terphenyl-d14	3615	2923	80.9	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS1-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-03 File ID: 0221603.D

Sampled: 02/16/11 10:40 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 12:59

Solids: 82.62 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.97	3.93	7.86	U
208-96-8	Acenaphthylene		1.97	3.93	7.86	U
120-12-7	Anthracene		1.97	3.93	7.86	U
56-55-3	Benzo(a)anthracene	17.7	1.97	3.93	7.86	
50-32-8	Benzo(a)pyrene		1.97	3.93	7.86	U
205-99-2	Benzo(b)fluoranthene		1.97	3.93	7.86	U
191-24-2	Benzo(g,h,i)perylene		1.97	3.93	7.86	U
207-08-9	Benzo(k)fluoranthene		1.97	3.93	7.86	U
218-01-9	Chrysene		1.97	3.93	7.86	U
53-70-3	Dibenz(a,h)anthracene		1.97	3.93	7.86	U
206-44-0	Fluoranthene	3.02	1.97	3.93	7.86	I
86-73-7	Fluorene		1.97	3.93	7.86	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.97	3.93	7.86	U
90-12-0	1-Methylnaphthalene		1.97	3.93	7.86	U
91-57-6	2-Methylnaphthalene		1.97	3.93	7.86	U
91-20-3	Naphthalene		1.97	3.93	7.86	U
85-01-8	Phenanthrene	3.36	1.97	3.93	7.86	I
129-00-0	Pyrene	2.83	1.97	3.93	7.86	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3930	3347	85.2	14 - 129	
Terphenyl-d14	3930	3036	77.2	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS1-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-04 File ID: 0221604.D

Sampled: 02/16/11 10:50 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 18:54

Solids: 81.65 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.01	4.00	8.01	U
208-96-8	Acenaphthylene		2.01	4.00	8.01	U
120-12-7	Anthracene		2.01	4.00	8.01	U
56-55-3	Benzo(a)anthracene	18.6	2.01	4.00	8.01	
50-32-8	Benzo(a)pyrene	4.82	2.01	4.00	8.01	S I
205-99-2	Benzo(b)fluoranthene	8.58	2.01	4.00	8.01	S
191-24-2	Benzo(g,h,i)perylene	4.05	2.01	4.00	8.01	S I
207-08-9	Benzo(k)fluoranthene		2.01	4.00	8.01	S U
218-01-9	Chrysene	3.80	2.01	4.00	8.01	I
53-70-3	Dibenz(a,h)anthracene		2.01	4.00	8.01	S U
206-44-0	Fluoranthene	6.46	2.01	4.00	8.01	I
86-73-7	Fluorene		2.01	4.00	8.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.32	2.01	4.00	8.01	S I
90-12-0	1-Methylnaphthalene		2.01	4.00	8.01	U
91-57-6	2-Methylnaphthalene		2.01	4.00	8.01	U
91-20-3	Naphthalene		2.01	4.00	8.01	U
85-01-8	Phenanthrene	4.06	2.01	4.00	8.01	I
129-00-0	Pyrene	5.87	2.01	4.00	8.01	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4003	3387	84.6	14 - 129	
Terphenyl-d14	4003	2966	74.1	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS2-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-05 File ID: 0221605.D

Sampled: 02/16/11 11:25 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 21:26

Solids: 92.22 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.81	3.61	7.23	U
208-96-8	Acenaphthylene	2.20	1.81	3.61	7.23	I
120-12-7	Anthracene	2.04	1.81	3.61	7.23	I
56-55-3	Benzo(a)anthracene	19.4	1.81	3.61	7.23	
50-32-8	Benzo(a)pyrene	11.2	1.81	3.61	7.23	
205-99-2	Benzo(b)fluoranthene		1.81	3.61	7.23	U
191-24-2	Benzo(g,h,i)perylene	11.8	1.81	3.61	7.23	
207-08-9	Benzo(k)fluoranthene		1.81	3.61	7.23	U
218-01-9	Chrysene	6.95	1.81	3.61	7.23	I
53-70-3	Dibenz(a,h)anthracene	3.44	1.81	3.61	7.23	I
206-44-0	Fluoranthene	11.2	1.81	3.61	7.23	
86-73-7	Fluorene		1.81	3.61	7.23	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.82	1.81	3.61	7.23	
90-12-0	1-Methylnaphthalene	1.93	1.81	3.61	7.23	I
91-57-6	2-Methylnaphthalene	2.29	1.81	3.61	7.23	I
91-20-3	Naphthalene	3.19	1.81	3.61	7.23	I
85-01-8	Phenanthrene	5.70	1.81	3.61	7.23	I
129-00-0	Pyrene	9.10	1.81	3.61	7.23	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3614	3239	89.6	14 - 129	
Terphenyl-d14	3614	2554	70.7	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS2-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-06 File ID: 0221606D.D

Sampled: 02/16/11 11:30 Prepared: 02/23/11 13:30 Analyzed: 03/09/11 19:38

Solids: 88.09 Preparation: EXT_3546 Dilution: 20

Batch: 1B22029 Sequence: 1C06916 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		146	291	582	U
208-96-8	Acenaphthylene		146	291	582	U
120-12-7	Anthracene		146	291	582	U
56-55-3	Benzo(a)anthracene		146	291	582	U
50-32-8	Benzo(a)pyrene		146	291	582	S U
205-99-2	Benzo(b)fluoranthene	169	146	291	582	Y, S, D I
191-24-2	Benzo(g,h,i)perylene		146	291	582	S U
207-08-9	Benzo(k)fluoranthene		146	291	582	S U
218-01-9	Chrysene		146	291	582	U
53-70-3	Dibenz(a,h)anthracene		146	291	582	S U
206-44-0	Fluoranthene		146	291	582	U
86-73-7	Fluorene		146	291	582	U
193-39-5	Indeno(1,2,3-cd)pyrene		146	291	582	S U
90-12-0	1-Methylnaphthalene		146	291	582	U
91-57-6	2-Methylnaphthalene		146	291	582	U
91-20-3	Naphthalene		146	291	582	U
85-01-8	Phenanthrene		146	291	582	U
129-00-0	Pyrene		146	291	582	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3638	2932	80.6	14 - 129	
Terphenyl-d14	3638	2905	79.9	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS2-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-07 File ID: 0221607.D

Sampled: 02/16/11 11:40 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 13:24

Solids: 80.52 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.06	4.11	8.23	U
208-96-8	Acenaphthylene		2.06	4.11	8.23	U
120-12-7	Anthracene		2.06	4.11	8.23	U
56-55-3	Benzo(a)anthracene	18.4	2.06	4.11	8.23	
50-32-8	Benzo(a)pyrene	2.19	2.06	4.11	8.23	I
205-99-2	Benzo(b)fluoranthene	3.75	2.06	4.11	8.23	I
191-24-2	Benzo(g,h,i)perylene		2.06	4.11	8.23	U
207-08-9	Benzo(k)fluoranthene		2.06	4.11	8.23	U
218-01-9	Chrysene	2.68	2.06	4.11	8.23	I
53-70-3	Dibenz(a,h)anthracene		2.06	4.11	8.23	U
206-44-0	Fluoranthene	3.58	2.06	4.11	8.23	I
86-73-7	Fluorene		2.06	4.11	8.23	U
193-39-5	Indeno(1,2,3-cd)pyrene		2.06	4.11	8.23	U
90-12-0	1-Methylnaphthalene		2.06	4.11	8.23	U
91-57-6	2-Methylnaphthalene		2.06	4.11	8.23	U
91-20-3	Naphthalene		2.06	4.11	8.23	U
85-01-8	Phenanthrene	2.37	2.06	4.11	8.23	I
129-00-0	Pyrene	3.97	2.06	4.11	8.23	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4112	3007	73.1	14 - 129	
Terphenyl-d14	4112	3162	76.9	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS2-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-08 File ID: 0221608.D

Sampled: 02/16/11 11:45 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 19:20

Solids: 71.91 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.23	4.45	8.92	U
208-96-8	Acenaphthylene		2.23	4.45	8.92	U
120-12-7	Anthracene		2.23	4.45	8.92	U
56-55-3	Benzo(a)anthracene	21.5	2.23	4.45	8.92	
50-32-8	Benzo(a)pyrene		2.23	4.45	8.92	U
205-99-2	Benzo(b)fluoranthene	18.0	2.23	4.45	8.92	
191-24-2	Benzo(g,h,i)perylene	5.13	2.23	4.45	8.92	I
207-08-9	Benzo(k)fluoranthene	8.54	2.23	4.45	8.92	I
218-01-9	Chrysene	5.88	2.23	4.45	8.92	I
53-70-3	Dibenz(a,h)anthracene		2.23	4.45	8.92	U
206-44-0	Fluoranthene	6.05	2.23	4.45	8.92	I
86-73-7	Fluorene		2.23	4.45	8.92	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.38	2.23	4.45	8.92	I
90-12-0	1-Methylnaphthalene		2.23	4.45	8.92	U
91-57-6	2-Methylnaphthalene		2.23	4.45	8.92	U
91-20-3	Naphthalene	2.34	2.23	4.45	8.92	I
85-01-8	Phenanthrene	3.58	2.23	4.45	8.92	I
129-00-0	Pyrene	6.11	2.23	4.45	8.92	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4457	3996	89.6	14 - 129	
Terphenyl-d14	4457	3655	82.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS3-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-09 File ID: 0221609D.D

Sampled: 02/16/11 14:00 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 15:57

Solids: 84.22 Preparation: EXT_3546 Dilution: 5

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		9.53	19.0	38.1	U
208-96-8	Acenaphthylene		9.53	19.0	38.1	U
120-12-7	Anthracene		9.53	19.0	38.1	U
56-55-3	Benzo(a)anthracene	89.6	9.53	19.0	38.1	D
50-32-8	Benzo(a)pyrene	21.2	9.53	19.0	38.1	D I
205-99-2	Benzo(b)fluoranthene	24.8	9.53	19.0	38.1	D I
191-24-2	Benzo(g,h,i)perylene	12.6	9.53	19.0	38.1	D I
207-08-9	Benzo(k)fluoranthene		9.53	19.0	38.1	U
218-01-9	Chrysene	18.1	9.53	19.0	38.1	D I
53-70-3	Dibenz(a,h)anthracene		9.53	19.0	38.1	U
206-44-0	Fluoranthene	18.7	9.53	19.0	38.1	D I
86-73-7	Fluorene		9.53	19.0	38.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	15.1	9.53	19.0	38.1	D I
90-12-0	1-Methylnaphthalene		9.53	19.0	38.1	U
91-57-6	2-Methylnaphthalene		9.53	19.0	38.1	U
91-20-3	Naphthalene		9.53	19.0	38.1	U
85-01-8	Phenanthrene		9.53	19.0	38.1	U
129-00-0	Pyrene	21.6	9.53	19.0	38.1	D I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3806	2848	74.8	14 - 129	
Terphenyl-d14	3806	2938	77.2	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS3-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-10 File ID: 0221610.D

Sampled: 02/16/11 14:10 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 19:45

Solids: 87.69 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.88	3.75	7.51	U
208-96-8	Acenaphthylene		1.88	3.75	7.51	U
120-12-7	Anthracene		1.88	3.75	7.51	U
56-55-3	Benzo(a)anthracene		1.88	3.75	7.51	U
50-32-8	Benzo(a)pyrene	3.45	1.88	3.75	7.51	I
205-99-2	Benzo(b)fluoranthene	7.21	1.88	3.75	7.51	I
191-24-2	Benzo(g,h,i)perylene	3.30	1.88	3.75	7.51	I
207-08-9	Benzo(k)fluoranthene		1.88	3.75	7.51	U
218-01-9	Chrysene	2.65	1.88	3.75	7.51	I
53-70-3	Dibenz(a,h)anthracene		1.88	3.75	7.51	U
206-44-0	Fluoranthene	3.75	1.88	3.75	7.51	I
86-73-7	Fluorene		1.88	3.75	7.51	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.40	1.88	3.75	7.51	I
90-12-0	1-Methylnaphthalene		1.88	3.75	7.51	U
91-57-6	2-Methylnaphthalene	2.05	1.88	3.75	7.51	I
91-20-3	Naphthalene		1.88	3.75	7.51	U
85-01-8	Phenanthrene	3.47	1.88	3.75	7.51	I
129-00-0	Pyrene	2.49	1.88	3.75	7.51	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3751	3076	82.0	14 - 129	
Terphenyl-d14	3751	2813	75.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS3-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-11 File ID: 0221611.D

Sampled: 02/16/11 14:20 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 20:10

Solids: 82.77 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.99	3.97	7.95	U
208-96-8	Acenaphthylene	2.16	1.99	3.97	7.95	I
120-12-7	Anthracene		1.99	3.97	7.95	U
56-55-3	Benzo(a)anthracene	18.9	1.99	3.97	7.95	
50-32-8	Benzo(a)pyrene	8.22	1.99	3.97	7.95	
205-99-2	Benzo(b)fluoranthene	15.2	1.99	3.97	7.95	
191-24-2	Benzo(g,h,i)perylene	8.19	1.99	3.97	7.95	
207-08-9	Benzo(k)fluoranthene	6.28	1.99	3.97	7.95	I
218-01-9	Chrysene	5.39	1.99	3.97	7.95	I
53-70-3	Dibenz(a,h)anthracene		1.99	3.97	7.95	U
206-44-0	Fluoranthene	7.43	1.99	3.97	7.95	I
86-73-7	Fluorene		1.99	3.97	7.95	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.60	1.99	3.97	7.95	I
90-12-0	1-Methylnaphthalene		1.99	3.97	7.95	U
91-57-6	2-Methylnaphthalene		1.99	3.97	7.95	U
91-20-3	Naphthalene		1.99	3.97	7.95	U
85-01-8	Phenanthrene	2.96	1.99	3.97	7.95	I
129-00-0	Pyrene	6.93	1.99	3.97	7.95	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3974	2978	74.9	14 - 129	
Terphenyl-d14	3974	2696	67.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS3-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-12 File ID: 0221612D.D

Sampled: 02/16/11 14:25 Prepared: 02/23/11 13:30 Analyzed: 03/09/11 17:03

Solids: 84.35 Preparation: EXT_3546 Dilution: 2

Batch: 1B22029 Sequence: 1C06916 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		3.88	7.74	15.5	U
208-96-8	Acenaphthylene		3.88	7.74	15.5	U
120-12-7	Anthracene		3.88	7.74	15.5	U
56-55-3	Benzo(a)anthracene		3.88	7.74	15.5	U
50-32-8	Benzo(a)pyrene	9.94	3.88	7.74	15.5	S, D I
205-99-2	Benzo(b)fluoranthene	15.8	3.88	7.74	15.5	Y, S, D
191-24-2	Benzo(g,h,i)perylene	10.6	3.88	7.74	15.5	S, D I
207-08-9	Benzo(k)fluoranthene		3.88	7.74	15.5	S U
218-01-9	Chrysene	6.26	3.88	7.74	15.5	D I
53-70-3	Dibenz(a,h)anthracene		3.88	7.74	15.5	S U
206-44-0	Fluoranthene	6.37	3.88	7.74	15.5	D I
86-73-7	Fluorene		3.88	7.74	15.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.29	3.88	7.74	15.5	S, D I
90-12-0	1-Methylnaphthalene		3.88	7.74	15.5	U
91-57-6	2-Methylnaphthalene		3.88	7.74	15.5	U
91-20-3	Naphthalene	4.42	3.88	7.74	15.5	D I
85-01-8	Phenanthrene	4.59	3.88	7.74	15.5	D I
129-00-0	Pyrene	7.17	3.88	7.74	15.5	D I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3874	2889	74.6	14 - 129	
Terphenyl-d14	3874	2698	69.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS4-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-13 File ID: 0221613D.D

Sampled: 02/16/11 15:15 Prepared: 02/23/11 13:30 Analyzed: 03/09/11 20:04

Solids: 81.59 Preparation: EXT_3546 Dilution: 20

Batch: 1B22029 Sequence: 1C06916 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		162	322	645	U
208-96-8	Acenaphthylene		162	322	645	U
120-12-7	Anthracene		162	322	645	U
56-55-3	Benzo(a)anthracene		162	322	645	U
50-32-8	Benzo(a)pyrene		162	322	645	S U
205-99-2	Benzo(b)fluoranthene		162	322	645	S, Y U
191-24-2	Benzo(g,h,i)perylene		162	322	645	S U
207-08-9	Benzo(k)fluoranthene		162	322	645	S U
218-01-9	Chrysene		162	322	645	U
53-70-3	Dibenz(a,h)anthracene		162	322	645	S U
206-44-0	Fluoranthene		162	322	645	U
86-73-7	Fluorene		162	322	645	U
193-39-5	Indeno(1,2,3-cd)pyrene		162	322	645	S U
90-12-0	1-Methylnaphthalene		162	322	645	U
91-57-6	2-Methylnaphthalene		162	322	645	U
91-20-3	Naphthalene		162	322	645	U
85-01-8	Phenanthrene		162	322	645	U
129-00-0	Pyrene		162	322	645	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4032	2110	52.3	14 - 129	
Terphenyl-d14	4032	2013	49.9	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS4-2.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-14 File ID: 0221614D.D

Sampled: 02/16/11 15:25 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 16:23

Solids: 85.41 Preparation: EXT_3546 Dilution: 5

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		9.46	18.9	37.8	U
208-96-8	Acenaphthylene		9.46	18.9	37.8	U
120-12-7	Anthracene		9.46	18.9	37.8	U
56-55-3	Benzo(a)anthracene	87.7	9.46	18.9	37.8	D
50-32-8	Benzo(a)pyrene	18.3	9.46	18.9	37.8	D I
205-99-2	Benzo(b)fluoranthene	21.4	9.46	18.9	37.8	D I
191-24-2	Benzo(g,h,i)perylene	14.5	9.46	18.9	37.8	D I
207-08-9	Benzo(k)fluoranthene		9.46	18.9	37.8	U
218-01-9	Chrysene	13.1	9.46	18.9	37.8	D I
53-70-3	Dibenz(a,h)anthracene		9.46	18.9	37.8	U
206-44-0	Fluoranthene	25.1	9.46	18.9	37.8	D I
86-73-7	Fluorene		9.46	18.9	37.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	15.0	9.46	18.9	37.8	D I
90-12-0	1-Methylnaphthalene		9.46	18.9	37.8	U
91-57-6	2-Methylnaphthalene		9.46	18.9	37.8	U
91-20-3	Naphthalene		9.46	18.9	37.8	U
85-01-8	Phenanthrene	13.1	9.46	18.9	37.8	D I
129-00-0	Pyrene	22.4	9.46	18.9	37.8	D I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3777	2250	59.6	14 - 129	
Terphenyl-d14	3777	2286	60.5	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS4-4.0-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-15 File ID: 0221615.D

Sampled: 02/16/11 15:30 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 13:50

Solids: 88.92 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.84	3.67	7.35	U
208-96-8	Acenaphthylene		1.84	3.67	7.35	U
120-12-7	Anthracene		1.84	3.67	7.35	U
56-55-3	Benzo(a)anthracene		1.84	3.67	7.35	U
50-32-8	Benzo(a)pyrene		1.84	3.67	7.35	U
205-99-2	Benzo(b)fluoranthene		1.84	3.67	7.35	U
191-24-2	Benzo(g,h,i)perylene		1.84	3.67	7.35	U
207-08-9	Benzo(k)fluoranthene		1.84	3.67	7.35	U
218-01-9	Chrysene		1.84	3.67	7.35	U
53-70-3	Dibenz(a,h)anthracene		1.84	3.67	7.35	U
206-44-0	Fluoranthene		1.84	3.67	7.35	U
86-73-7	Fluorene		1.84	3.67	7.35	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.84	3.67	7.35	U
90-12-0	1-Methylnaphthalene		1.84	3.67	7.35	U
91-57-6	2-Methylnaphthalene		1.84	3.67	7.35	U
91-20-3	Naphthalene		1.84	3.67	7.35	U
85-01-8	Phenanthrene		1.84	3.67	7.35	U
129-00-0	Pyrene		1.84	3.67	7.35	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3675	3095	84.2	14 - 129	
Terphenyl-d14	3675	3123	85.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS4-4.5-2011-02-16

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-16 File ID: 0221616D.D

Sampled: 02/16/11 15:35 Prepared: 02/23/11 13:30 Analyzed: 03/09/11 17:29

Solids: 81.70 Preparation: EXT_3546 Dilution: 2

Batch: 1B22029 Sequence: 1C06916 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		3.98	7.94	15.9	U
208-96-8	Acenaphthylene		3.98	7.94	15.9	U
120-12-7	Anthracene		3.98	7.94	15.9	U
56-55-3	Benzo(a)anthracene		3.98	7.94	15.9	U
50-32-8	Benzo(a)pyrene		3.98	7.94	15.9	U
205-99-2	Benzo(b)fluoranthene		3.98	7.94	15.9	Y U
191-24-2	Benzo(g,h,i)perylene		3.98	7.94	15.9	U
207-08-9	Benzo(k)fluoranthene		3.98	7.94	15.9	U
218-01-9	Chrysene		3.98	7.94	15.9	U
53-70-3	Dibenz(a,h)anthracene		3.98	7.94	15.9	U
206-44-0	Fluoranthene		3.98	7.94	15.9	U
86-73-7	Fluorene		3.98	7.94	15.9	U
193-39-5	Indeno(1,2,3-cd)pyrene		3.98	7.94	15.9	U
90-12-0	1-Methylnaphthalene		3.98	7.94	15.9	U
91-57-6	2-Methylnaphthalene		3.98	7.94	15.9	U
91-20-3	Naphthalene		3.98	7.94	15.9	U
85-01-8	Phenanthrene		3.98	7.94	15.9	U
129-00-0	Pyrene		3.98	7.94	15.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3974	2816	70.9	14 - 129	
Terphenyl-d14	3974	2893	72.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS5-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-17 File ID: 0221617.D

Sampled: 02/17/11 10:00 Prepared: 02/23/11 13:30 Analyzed: 03/09/11 17:55

Solids: 85.96 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06916 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.92	3.82	7.66	U
208-96-8	Acenaphthylene		1.92	3.82	7.66	U
120-12-7	Anthracene	39.5	1.92	3.82	7.66	
56-55-3	Benzo(a)anthracene		1.92	3.82	7.66	U
50-32-8	Benzo(a)pyrene		1.92	3.82	7.66	U
205-99-2	Benzo(b)fluoranthene		1.92	3.82	7.66	Y U
191-24-2	Benzo(g,h,i)perylene	5.61	1.92	3.82	7.66	I
207-08-9	Benzo(k)fluoranthene		1.92	3.82	7.66	U
218-01-9	Chrysene		1.92	3.82	7.66	U
53-70-3	Dibenz(a,h)anthracene		1.92	3.82	7.66	U
206-44-0	Fluoranthene	2.95	1.92	3.82	7.66	I
86-73-7	Fluorene		1.92	3.82	7.66	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.92	3.82	7.66	U
90-12-0	1-Methylnaphthalene		1.92	3.82	7.66	U
91-57-6	2-Methylnaphthalene	2.69	1.92	3.82	7.66	I
91-20-3	Naphthalene		1.92	3.82	7.66	U
85-01-8	Phenanthrene		1.92	3.82	7.66	U
129-00-0	Pyrene	3.68	1.92	3.82	7.66	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3827	2901	75.8	14 - 129	
Terphenyl-d14	3827	3047	79.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS5-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-18 File ID: 0221618.D

Sampled: 02/17/11 10:05 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 14:15

Solids: 75.89 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.12	4.22	8.45	U
208-96-8	Acenaphthylene		2.12	4.22	8.45	U
120-12-7	Anthracene	8.12	2.12	4.22	8.45	I
56-55-3	Benzo(a)anthracene	19.8	2.12	4.22	8.45	
50-32-8	Benzo(a)pyrene		2.12	4.22	8.45	U
205-99-2	Benzo(b)fluoranthene	4.49	2.12	4.22	8.45	I
191-24-2	Benzo(g,h,i)perylene	4.54	2.12	4.22	8.45	I
207-08-9	Benzo(k)fluoranthene		2.12	4.22	8.45	U
218-01-9	Chrysene		2.12	4.22	8.45	U
53-70-3	Dibenz(a,h)anthracene		2.12	4.22	8.45	U
206-44-0	Fluoranthene	4.61	2.12	4.22	8.45	I
86-73-7	Fluorene		2.12	4.22	8.45	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.49	2.12	4.22	8.45	I
90-12-0	1-Methylnaphthalene	2.97	2.12	4.22	8.45	I
91-57-6	2-Methylnaphthalene	5.69	2.12	4.22	8.45	I
91-20-3	Naphthalene	3.27	2.12	4.22	8.45	I
85-01-8	Phenanthrene		2.12	4.22	8.45	U
129-00-0	Pyrene	4.24	2.12	4.22	8.45	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4224	3513	83.2	14 - 129	
Terphenyl-d14	4224	3148	74.5	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-19 File ID: 0221619.D

Sampled: 02/17/11 10:10 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 14:41

Solids: 85.53 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.89	3.77	7.55	U
208-96-8	Acenaphthylene		1.89	3.77	7.55	U
120-12-7	Anthracene		1.89	3.77	7.55	U
56-55-3	Benzo(a)anthracene		1.89	3.77	7.55	U
50-32-8	Benzo(a)pyrene		1.89	3.77	7.55	U
205-99-2	Benzo(b)fluoranthene		1.89	3.77	7.55	U
191-24-2	Benzo(g,h,i)perylene		1.89	3.77	7.55	U
207-08-9	Benzo(k)fluoranthene		1.89	3.77	7.55	U
218-01-9	Chrysene		1.89	3.77	7.55	U
53-70-3	Dibenz(a,h)anthracene		1.89	3.77	7.55	U
206-44-0	Fluoranthene		1.89	3.77	7.55	U
86-73-7	Fluorene		1.89	3.77	7.55	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.89	3.77	7.55	U
90-12-0	1-Methylnaphthalene		1.89	3.77	7.55	U
91-57-6	2-Methylnaphthalene		1.89	3.77	7.55	U
91-20-3	Naphthalene		1.89	3.77	7.55	U
85-01-8	Phenanthrene		1.89	3.77	7.55	U
129-00-0	Pyrene		1.89	3.77	7.55	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3771	3274	86.8	14 - 129	
Terphenyl-d14	3771	3123	82.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-20 File ID: 0221620.D

Sampled: 02/17/11 10:15 Prepared: 02/23/11 13:30 Analyzed: 03/08/11 15:06

Solids: 85.20 Preparation: EXT_3546 Dilution: 1

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.86	3.71	7.43	U
208-96-8	Acenaphthylene		1.86	3.71	7.43	U
120-12-7	Anthracene		1.86	3.71	7.43	U
56-55-3	Benzo(a)anthracene		1.86	3.71	7.43	U
50-32-8	Benzo(a)pyrene		1.86	3.71	7.43	U
205-99-2	Benzo(b)fluoranthene		1.86	3.71	7.43	U
191-24-2	Benzo(g,h,i)perylene	7.96	1.86	3.71	7.43	
207-08-9	Benzo(k)fluoranthene		1.86	3.71	7.43	U
218-01-9	Chrysene		1.86	3.71	7.43	U
53-70-3	Dibenz(a,h)anthracene		1.86	3.71	7.43	U
206-44-0	Fluoranthene	2.87	1.86	3.71	7.43	I
86-73-7	Fluorene		1.86	3.71	7.43	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.86	3.71	7.43	U
90-12-0	1-Methylnaphthalene	2.68	1.86	3.71	7.43	I
91-57-6	2-Methylnaphthalene	2.68	1.86	3.71	7.43	I
91-20-3	Naphthalene		1.86	3.71	7.43	U
85-01-8	Phenanthrene		1.86	3.71	7.43	U
129-00-0	Pyrene		1.86	3.71	7.43	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3714	3136	84.4	14 - 129	
Terphenyl-d14	3714	3055	82.2	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS6-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-21 File ID: 0221621.D

Sampled: 02/17/11 11:00 Prepared: 02/28/11 12:35 Analyzed: 03/10/11 18:09

Solids: 86.86 Preparation: EXT_3546 Dilution: 1

Batch: 1B26010 Sequence: 1C07029 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.85	3.69	7.38	U
208-96-8	Acenaphthylene		1.85	3.69	7.38	U
120-12-7	Anthracene	26.8	1.85	3.69	7.38	
56-55-3	Benzo(a)anthracene		1.85	3.69	7.38	U
50-32-8	Benzo(a)pyrene		1.85	3.69	7.38	U
205-99-2	Benzo(b)fluoranthene		1.85	3.69	7.38	U
191-24-2	Benzo(g,h,i)perylene		1.85	3.69	7.38	U
207-08-9	Benzo(k)fluoranthene		1.85	3.69	7.38	U
218-01-9	Chrysene		1.85	3.69	7.38	U
53-70-3	Dibenz(a,h)anthracene		1.85	3.69	7.38	U
206-44-0	Fluoranthene		1.85	3.69	7.38	U
86-73-7	Fluorene		1.85	3.69	7.38	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.39	1.85	3.69	7.38	I
90-12-0	1-Methylnaphthalene		1.85	3.69	7.38	U
91-57-6	2-Methylnaphthalene	2.75	1.85	3.69	7.38	I
91-20-3	Naphthalene	2.38	1.85	3.69	7.38	I
85-01-8	Phenanthrene		1.85	3.69	7.38	U
129-00-0	Pyrene		1.85	3.69	7.38	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3690	2882	78.1	14 - 129	
Terphenyl-d14	3690	2826	76.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS6-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-22 File ID: 0221622D.D

Sampled: 02/17/11 11:05 Prepared: 02/28/11 12:35 Analyzed: 03/10/11 19:26

Solids: 56.12 Preparation: EXT_3546 Dilution: 5

Batch: 1B26010 Sequence: 1C07029 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		14.2	28.3	56.8	U
208-96-8	Acenaphthylene		14.2	28.3	56.8	U
120-12-7	Anthracene		14.2	28.3	56.8	U
56-55-3	Benzo(a)anthracene		14.2	28.3	56.8	U
50-32-8	Benzo(a)pyrene		14.2	28.3	56.8	U
205-99-2	Benzo(b)fluoranthene		14.2	28.3	56.8	U
191-24-2	Benzo(g,h,i)perylene	16.8	14.2	28.3	56.8	D I
207-08-9	Benzo(k)fluoranthene		14.2	28.3	56.8	U
218-01-9	Chrysene		14.2	28.3	56.8	U
53-70-3	Dibenz(a,h)anthracene		14.2	28.3	56.8	U
206-44-0	Fluoranthene		14.2	28.3	56.8	U
86-73-7	Fluorene		14.2	28.3	56.8	U
193-39-5	Indeno(1,2,3-cd)pyrene		14.2	28.3	56.8	U
90-12-0	1-Methylnaphthalene	620	14.2	28.3	56.8	D
91-57-6	2-Methylnaphthalene	751	14.2	28.3	56.8	D
91-20-3	Naphthalene	155	14.2	28.3	56.8	D
85-01-8	Phenanthrene		14.2	28.3	56.8	U
129-00-0	Pyrene	232	14.2	28.3	56.8	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	5675	3872	68.2	14 - 129	
Terphenyl-d14	5675	3479	61.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS6-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-23 File ID: 0221623D.D

Sampled: 02/17/11 11:15 Prepared: 02/28/11 12:35 Analyzed: 03/11/11 12:58

Solids: 83.64 Preparation: EXT_3546 Dilution: 10

Batch: 1B26010 Sequence: 1C07040 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	3260	19.7	39.3	78.7	D
208-96-8	Acenaphthylene		19.7	39.3	78.7	U
120-12-7	Anthracene		19.7	39.3	78.7	U
56-55-3	Benzo(a)anthracene	349	19.7	39.3	78.7	D
50-32-8	Benzo(a)pyrene	133	19.7	39.3	78.7	D
205-99-2	Benzo(b)fluoranthene	152	19.7	39.3	78.7	D
191-24-2	Benzo(g,h,i)perylene	79.6	19.7	39.3	78.7	Y, D
207-08-9	Benzo(k)fluoranthene	85.9	19.7	39.3	78.7	D
218-01-9	Chrysene	240	19.7	39.3	78.7	D
53-70-3	Dibenz(a,h)anthracene	52.1	19.7	39.3	78.7	D I
206-44-0	Fluoranthene	947	19.7	39.3	78.7	D
86-73-7	Fluorene		19.7	39.3	78.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	75.1	19.7	39.3	78.7	D I
90-12-0	1-Methylnaphthalene		19.7	39.3	78.7	U
91-57-6	2-Methylnaphthalene		19.7	39.3	78.7	U
91-20-3	Naphthalene		19.7	39.3	78.7	U
85-01-8	Phenanthrene		19.7	39.3	78.7	U
129-00-0	Pyrene	1320	19.7	39.3	78.7	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3933	3142	79.9	14 - 129	
Terphenyl-d14	3933	3552	90.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS6-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1102216-24 File ID: 0221624D.D

Sampled: 02/17/11 11:20 Prepared: 02/28/11 12:35 Analyzed: 03/11/11 13:24

Solids: 84.05 Preparation: EXT_3546 Dilution: 10

Batch: 1B26010 Sequence: 1C07040 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		19.2	38.3	76.8	U
208-96-8	Acenaphthylene		19.2	38.3	76.8	U
120-12-7	Anthracene		19.2	38.3	76.8	U
56-55-3	Benzo(a)anthracene	273	19.2	38.3	76.8	D
50-32-8	Benzo(a)pyrene	93.9	19.2	38.3	76.8	D
205-99-2	Benzo(b)fluoranthene	135	19.2	38.3	76.8	D
191-24-2	Benzo(g,h,i)perylene	54.5	19.2	38.3	76.8	Y, D I
207-08-9	Benzo(k)fluoranthene	71.2	19.2	38.3	76.8	D I
218-01-9	Chrysene	157	19.2	38.3	76.8	D
53-70-3	Dibenz(a,h)anthracene		19.2	38.3	76.8	U
206-44-0	Fluoranthene	712	19.2	38.3	76.8	D
86-73-7	Fluorene		19.2	38.3	76.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	60.0	19.2	38.3	76.8	D I
90-12-0	1-Methylnaphthalene		19.2	38.3	76.8	U
91-57-6	2-Methylnaphthalene		19.2	38.3	76.8	U
91-20-3	Naphthalene		19.2	38.3	76.8	U
85-01-8	Phenanthrene		19.2	38.3	76.8	U
129-00-0	Pyrene	958	19.2	38.3	76.8	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3838	3275	85.3	14 - 129	
Terphenyl-d14	3838	3095	80.6	14 - 129	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06913
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06913-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/08/11 11:13		
2-Fluorobiphenyl	5.000	99.1	80 - 120	7.672	7.672	0.0000	+/-0.500	
Terphenyl-d14	5.000	96.8	80 - 120	12.302	12.302	0.0000	+/-0.500	
Blank (1B22029-BLK1) ug/Kg wet				Lab File ID: B22029B1.D		Analyzed: 03/08/11 12:07		
2-Fluorobiphenyl	3333	86.5	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3333	83.7	14 - 129	12.302	12.302	0.0000	+/-0.500	
LCS (1B22029-BS1) ug/Kg wet				Lab File ID: B22029L1.D		Analyzed: 03/08/11 12:33		
2-Fluorobiphenyl	3333	85.9	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3333	76.7	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS1-4.0-2011-02-16 (1102216-03) ug/Kg dry				Lab File ID: 0221603.D		Analyzed: 03/08/11 12:59		
2-Fluorobiphenyl	3930	85.2	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3930	77.2	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS2-4.0-2011-02-16 (1102216-07) ug/Kg dry				Lab File ID: 0221607.D		Analyzed: 03/08/11 13:24		
2-Fluorobiphenyl	4112	73.1	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	4112	76.9	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS4-4.0-2011-02-16 (1102216-15) ug/Kg dry				Lab File ID: 0221615.D		Analyzed: 03/08/11 13:50		
2-Fluorobiphenyl	3675	84.2	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3675	85.0	14 - 129	12.312	12.302	0.0100	+/-0.500	
MPT-1343-SS5-2.0-2011-02-17 (1102216-18) ug/Kg dry				Lab File ID: 0221618.D		Analyzed: 03/08/11 14:15		
2-Fluorobiphenyl	4224	83.2	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	4224	74.5	14 - 129	12.312	12.302	0.0100	+/-0.500	
MPT-1343-SS5-4.0-2011-02-17 (1102216-19) ug/Kg dry				Lab File ID: 0221619.D		Analyzed: 03/08/11 14:41		
2-Fluorobiphenyl	3771	86.8	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3771	82.8	14 - 129	12.312	12.302	0.0100	+/-0.500	
MPT-1343-SS5-4.5-2011-02-17 (1102216-20) ug/Kg dry				Lab File ID: 0221620.D		Analyzed: 03/08/11 15:06		
2-Fluorobiphenyl	3714	84.4	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3714	82.2	14 - 129	12.312	12.302	0.0100	+/-0.500	
MPT-1343-SS3-0.5-2011-02-16 (1102216-09) ug/Kg dry				Lab File ID: 0221609D.D		Analyzed: 03/08/11 15:57		
2-Fluorobiphenyl	3806	74.8	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3806	77.2	14 - 129	12.293	12.302	-0.0090	+/-0.500	
MPT-1343-SS4-2.0-2011-02-16 (1102216-14) ug/Kg dry				Lab File ID: 0221614D.D		Analyzed: 03/08/11 16:23		
2-Fluorobiphenyl	3777	59.6	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3777	60.5	14 - 129	12.293	12.302	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06913
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS1-0.5-2011-02-16 (1102216-01) ug/Kg dry				Lab File ID: 0221601D.D		Analyzed: 03/08/11 17:13		
2-Fluorobiphenyl	3482	77.9	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3482	73.7	14 - 129	12.293	12.302	-0.0090	+/-0.500	
Matrix Spike (1B22029-MS1) ug/Kg dry				Lab File ID: 221601MD.D		Analyzed: 03/08/11 17:39		
2-Fluorobiphenyl	3550	78.8	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3550	76.6	14 - 129	12.293	12.302	-0.0090	+/-0.500	
Matrix Spike Dup (1B22029-MSD1) ug/Kg dry				Lab File ID: 221601SD.D		Analyzed: 03/08/11 18:04		
2-Fluorobiphenyl	3437	69.3	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3437	69.3	14 - 129	12.293	12.302	-0.0090	+/-0.500	
MPT-1343-SS1-2.0-2011-02-16 (1102216-02) ug/Kg dry				Lab File ID: 0221602.D		Analyzed: 03/08/11 18:29		
2-Fluorobiphenyl	3615	82.6	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3615	80.9	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS1-4.5-2011-02-16 (1102216-04) ug/Kg dry				Lab File ID: 0221604.D		Analyzed: 03/08/11 18:54		
2-Fluorobiphenyl	4003	84.6	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	4003	74.1	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS2-4.5-2011-02-16 (1102216-08) ug/Kg dry				Lab File ID: 0221608.D		Analyzed: 03/08/11 19:20		
2-Fluorobiphenyl	4457	89.6	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	4457	82.0	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS3-2.0-2011-02-16 (1102216-10) ug/Kg dry				Lab File ID: 0221610.D		Analyzed: 03/08/11 19:45		
2-Fluorobiphenyl	3751	82.0	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3751	75.0	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS3-4.0-2011-02-16 (1102216-11) ug/Kg dry				Lab File ID: 0221611.D		Analyzed: 03/08/11 20:10		
2-Fluorobiphenyl	3974	74.9	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3974	67.8	14 - 129	12.302	12.302	0.0000	+/-0.500	
MPT-1343-SS2-0.5-2011-02-16 (1102216-05) ug/Kg dry				Lab File ID: 0221605.D		Analyzed: 03/08/11 21:26		
2-Fluorobiphenyl	3614	89.6	14 - 129	7.673	7.672	0.0010	+/-0.500	
Terphenyl-d14	3614	70.7	14 - 129	12.302	12.302	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06916
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06916-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/09/11 15:10		
2-Fluorobiphenyl	5.000	95.7	80 - 120	7.608	7.608	0.0000	+/-0.500	
Terphenyl-d14	5.000	94.8	80 - 120	12.219	12.219	0.0000	+/-0.500	
MPT-1343-SS3-4.5-2011-02-16 (1102216-12) ug/Kg dry				Lab File ID: 0221612D.D		Analyzed: 03/09/11 17:03		
2-Fluorobiphenyl	3874	74.6	14 - 129	7.608	7.608	0.0000	+/-0.500	
Terphenyl-d14	3874	69.6	14 - 129	12.228	12.219	0.0090	+/-0.500	
MPT-1343-SS4-4.5-2011-02-16 (1102216-16) ug/Kg dry				Lab File ID: 0221616D.D		Analyzed: 03/09/11 17:29		
2-Fluorobiphenyl	3974	70.9	14 - 129	7.608	7.608	0.0000	+/-0.500	
Terphenyl-d14	3974	72.8	14 - 129	12.228	12.219	0.0090	+/-0.500	
MPT-1343-SS5-0.5-2011-02-17 (1102216-17) ug/Kg dry				Lab File ID: 0221617.D		Analyzed: 03/09/11 17:55		
2-Fluorobiphenyl	3827	75.8	14 - 129	7.617	7.608	0.0090	+/-0.500	
Terphenyl-d14	3827	79.6	14 - 129	12.247	12.219	0.0280	+/-0.500	
MPT-1343-SS2-2.0-2011-02-16 (1102216-06) ug/Kg dry				Lab File ID: 0221606D.D		Analyzed: 03/09/11 19:38		
2-Fluorobiphenyl	3638	80.6	14 - 129	7.608	7.608	0.0000	+/-0.500	
Terphenyl-d14	3638	79.9	14 - 129	12.228	12.219	0.0090	+/-0.500	
MPT-1343-SS4-0.5-2011-02-16 (1102216-13) ug/Kg dry				Lab File ID: 0221613D.D		Analyzed: 03/09/11 20:04		
2-Fluorobiphenyl	4032	52.3	14 - 129	7.617	7.608	0.0090	+/-0.500	
Terphenyl-d14	4032	49.9	14 - 129	12.228	12.219	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07029
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07029-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/10/11 15:47		
2-Fluorobiphenyl	5.000	102	80 - 120	7.561	7.561	0.0000	+/-0.500	
Terphenyl-d14	5.000	90.8	80 - 120	12.172	12.172	0.0000	+/-0.500	
Blank (1B26010-BLK1) ug/Kg wet				Lab File ID: B26010B1.D		Analyzed: 03/10/11 16:53		
2-Fluorobiphenyl	3333	88.1	14 - 129	7.561	7.561	0.0000	+/-0.500	
Terphenyl-d14	3333	84.1	14 - 129	12.181	12.172	0.0090	+/-0.500	
LCS (1B26010-BS1) ug/Kg wet				Lab File ID: B26010L1.D		Analyzed: 03/10/11 17:18		
2-Fluorobiphenyl	3333	85.1	14 - 129	7.561	7.561	0.0000	+/-0.500	
Terphenyl-d14	3333	80.5	14 - 129	12.181	12.172	0.0090	+/-0.500	
LCS Dup (1B26010-BSD1) ug/Kg wet				Lab File ID: B26010L2.D		Analyzed: 03/10/11 17:44		
2-Fluorobiphenyl	3333	83.5	14 - 129	7.561	7.561	0.0000	+/-0.500	
Terphenyl-d14	3333	82.8	14 - 129	12.182	12.172	0.0100	+/-0.500	
MPT-1343-SS6-0.5-2011-02-17 (1102216-21) ug/Kg dry				Lab File ID: 0221621.D		Analyzed: 03/10/11 18:09		
2-Fluorobiphenyl	3690	78.1	14 - 129	7.571	7.561	0.0100	+/-0.500	
Terphenyl-d14	3690	76.6	14 - 129	12.191	12.172	0.0190	+/-0.500	
MPT-1343-SS6-2.0-2011-02-17 (1102216-22) ug/Kg dry				Lab File ID: 0221622D.D		Analyzed: 03/10/11 19:26		
2-Fluorobiphenyl	5675	68.2	14 - 129	7.57	7.561	0.0090	+/-0.500	
Terphenyl-d14	5675	61.3	14 - 129	12.191	12.172	0.0190	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07040
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07040-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/11/11 12:31		
2-Fluorobiphenyl	5.000	99.0	80 - 120	7.515	7.515	0.0000	+/-0.500	
Terphenyl-d14	5.000	92.4	80 - 120	12.126	12.126	0.0000	+/-0.500	
MPT-1343-SS6-4.0-2011-02-17 (1102216-23) ug/Kg dry				Lab File ID: 0221623D.D		Analyzed: 03/11/11 12:58		
2-Fluorobiphenyl	3933	79.9	14 - 129	7.533	7.515	0.0180	+/-0.500	
Terphenyl-d14	3933	90.3	14 - 129	12.144	12.126	0.0180	+/-0.500	
MPT-1343-SS6-4.5-2011-02-17 (1102216-24) ug/Kg dry				Lab File ID: 0221624D.D		Analyzed: 03/11/11 13:24		
2-Fluorobiphenyl	3838	85.3	14 - 129	7.524	7.515	0.0090	+/-0.500	
Terphenyl-d14	3838	80.6	14 - 129	12.135	12.126	0.0090	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B22029	Laboratory ID:	1B22029-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	66.67	63.97	96.0	28 - 110
Acenaphthylene	66.67	59.07	88.6	23 - 126
Anthracene	66.67	57.21	85.8	28 - 136
Benzo(a)anthracene	66.67	54.20	81.3	31 - 146
Benzo(a)pyrene	66.67	56.28	84.4	28 - 128
Benzo(b)fluoranthene	66.67	57.92	86.9	30 - 139
Benzo(g,h,i)perylene	66.67	47.86	71.8	21 - 149
Benzo(k)fluoranthene	66.67	61.50	92.3	42 - 129
Chrysene	66.67	45.95	68.9	39 - 134
Dibenz(a,h)anthracene	66.67	45.02	67.5	30 - 138
Fluoranthene	66.67	52.70	79.1	30 - 142
Fluorene	66.67	62.32	93.5	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	43.03	64.5	17 - 164
1-Methylnaphthalene	66.67	64.57	96.8	30 - 111
2-Methylnaphthalene	66.67	61.53	92.3	30 - 111
Naphthalene	66.67	58.22	87.3	29 - 106
Phenanthrene	66.67	61.87	92.8	32 - 127
Pyrene	66.67	53.79	80.7	28 - 130

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B26010	Laboratory ID:	1B26010-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	66.67	61.05	91.6	28 - 110
Acenaphthylene	66.67	53.27	79.9	23 - 126
Anthracene	66.67	52.72	79.1	28 - 136
Benzo(a)anthracene	66.67	51.44	77.2	31 - 146
Benzo(a)pyrene	66.67	47.28	70.9	28 - 128
Benzo(b)fluoranthene	66.67	57.14	85.7	30 - 139
Benzo(g,h,i)perylene	66.67	52.10	78.1	21 - 149
Benzo(k)fluoranthene	66.67	60.24	90.4	42 - 129
Chrysene	66.67	42.72	64.1	39 - 134
Dibenz(a,h)anthracene	66.67	49.62	74.4	30 - 138
Fluoranthene	66.67	51.18	76.8	30 - 142
Fluorene	66.67	62.54	93.8	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	49.67	74.5	17 - 164
1-Methylnaphthalene	66.67	57.06	85.6	30 - 111
2-Methylnaphthalene	66.67	59.07	88.6	30 - 111
Naphthalene	66.67	56.18	84.3	29 - 106
Phenanthrene	66.67	58.34	87.5	32 - 127
Pyrene	66.67	51.07	76.6	28 - 130

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	66.67	58.02	87.0	5.09	30	28 - 110
Acenaphthylene	66.67	49.26	73.9	7.81	30	23 - 126
Anthracene	66.67	56.70	85.0	7.27	30	28 - 136
Benzo(a)anthracene	66.67	55.94	83.9	8.38	30	31 - 146
Benzo(a)pyrene	66.67	47.58	71.4	0.621	30	28 - 128
Benzo(b)fluoranthene	66.67	53.69	80.5	6.23	30	30 - 139
Benzo(g,h,i)perylene	66.67	53.99	81.0	3.57	30	21 - 149
Benzo(k)fluoranthene	66.67	54.06	81.1	10.8	30	42 - 129
Chrysene	66.67	46.70	70.1	8.92	30	39 - 134

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B26010	Laboratory ID:	1B26010-BSD1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	66.67	49.49	74.2	0.256	30	30 - 138
Fluoranthene	66.67	52.36	78.5	2.28	30	30 - 142
Fluorene	66.67	61.22	91.8	2.12	30	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	49.28	73.9	0.784	30	17 - 164
1-Methylnaphthalene	66.67	54.97	82.5	3.73	30	30 - 111
2-Methylnaphthalene	66.67	56.90	85.4	3.73	30	30 - 111
Naphthalene	66.67	55.82	83.7	0.657	30	29 - 106
Phenanthrene	66.67	60.08	90.1	2.94	30	32 - 127
Pyrene	66.67	51.62	77.4	1.07	30	28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

MPT-1343-SS1-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Batch: 1B22029

% Solids: 92.65

Source Sample Name: **1102216-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	71.01	ND	62.95	88.7		28 - 110
Acenaphthylene	71.01	ND	58.57	82.5		23 - 126
Anthracene	71.01	ND	66.49	93.6		28 - 136
Benzo(a)anthracene	71.01	80.65	120.9	56.7		31 - 146
Benzo(a)pyrene	71.01	17.60	72.08	76.7		28 - 128
Benzo(b)fluoranthene	71.01	23.37	73.52	70.6		30 - 139
Benzo(g,h,i)perylene	71.01	ND	56.64	79.8		21 - 149
Benzo(k)fluoranthene	71.01	ND	75.54	106		42 - 129
Chrysene	71.01	13.06	48.56	50.0		39 - 134
Dibenz(a,h)anthracene	71.01	ND	52.75	74.3		30 - 138
Fluoranthene	71.01	18.12	70.19	73.3		30 - 142
Fluorene	71.01	ND	67.78	95.4		27 - 116
Indeno(1,2,3-cd)pyrene	71.01	ND	57.56	81.1		17 - 164
1-Methylnaphthalene	71.01	ND	60.14	84.7		30 - 111
2-Methylnaphthalene	71.01	ND	56.66	79.8		30 - 111
Naphthalene	71.01	ND	53.00	74.6		29 - 106
Phenanthrene	71.01	ND	69.93	98.5		32 - 127
Pyrene	71.01	19.09	69.32	70.7		28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

MPT-1343-SS1-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Batch: 1B22029

% Solids: 92.65

Source Sample Name: **1102216-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	68.75	56.20	81.8	11.3		30	28 - 110
Acenaphthylene	68.75	50.65	73.7	14.5		30	23 - 126
Anthracene	68.75	55.78	81.1	17.5		30	28 - 136
Benzo(a)anthracene	68.75	111.9	45.4	7.74		30	31 - 146
Benzo(a)pyrene	68.75	68.13	73.5	5.64		30	28 - 128
Benzo(b)fluoranthene	68.75	68.02	64.9	7.77		30	30 - 139
Benzo(g,h,i)perylene	68.75	44.34	64.5	24.4		30	21 - 149
Benzo(k)fluoranthene	68.75	66.20	96.3	13.2		30	42 - 129
Chrysene	68.75	45.11	46.6	7.37		30	39 - 134
Dibenz(a,h)anthracene	68.75	50.56	73.5	4.24		30	30 - 138
Fluoranthene	68.75	64.36	67.3	8.66		30	30 - 142
Fluorene	68.75	59.73	86.9	12.6		30	27 - 116
Indeno(1,2,3-cd)pyrene	68.75	41.18	59.9	33.2	*	30	17 - 164
1-Methylnaphthalene	68.75	54.79	79.7	9.32		30	30 - 111
2-Methylnaphthalene	68.75	50.20	73.0	12.1		30	30 - 111
Naphthalene	68.75	50.13	72.9	5.57		30	29 - 106
Phenanthrene	68.75	59.84	87.0	15.6		30	32 - 127
Pyrene	68.75	66.06	68.3	4.82		30	28 - 130

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B22029 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS1-0.5-2011-02-16	1102216-01	02/23/11 13:30	15.50	1.00
MPT-1343-SS1-2.0-2011-02-16	1102216-02	02/23/11 13:30	15.80	1.00
MPT-1343-SS1-4.0-2011-02-16	1102216-03	02/23/11 13:30	15.40	1.00
MPT-1343-SS1-4.5-2011-02-16	1102216-04	02/23/11 13:30	15.30	1.00
MPT-1343-SS2-0.5-2011-02-16	1102216-05	02/23/11 13:30	15.00	1.00
MPT-1343-SS2-2.0-2011-02-16	1102216-06	02/23/11 13:30	15.60	4.00
MPT-1343-SS2-4.0-2011-02-16	1102216-07	02/23/11 13:30	15.10	1.00
MPT-1343-SS2-4.5-2011-02-16	1102216-08	02/23/11 13:30	15.60	1.00
MPT-1343-SS3-0.5-2011-02-16	1102216-09	02/23/11 13:30	15.60	1.00
MPT-1343-SS3-2.0-2011-02-16	1102216-10	02/23/11 13:30	15.20	1.00
MPT-1343-SS3-4.0-2011-02-16	1102216-11	02/23/11 13:30	15.20	1.00
MPT-1343-SS3-4.5-2011-02-16	1102216-12	02/23/11 13:30	15.30	1.00
MPT-1343-SS4-0.5-2011-02-16	1102216-13	02/23/11 13:30	15.20	4.00
MPT-1343-SS4-2.0-2011-02-16	1102216-14	02/23/11 13:30	15.50	1.00
MPT-1343-SS4-4.0-2011-02-16	1102216-15	02/23/11 13:30	15.30	1.00
MPT-1343-SS4-4.5-2011-02-16	1102216-16	02/23/11 13:30	15.40	1.00
MPT-1343-SS5-0.5-2011-02-17	1102216-17	02/23/11 13:30	15.20	1.00
MPT-1343-SS5-2.0-2011-02-17	1102216-18	02/23/11 13:30	15.60	1.00
MPT-1343-SS5-4.0-2011-02-17	1102216-19	02/23/11 13:30	15.50	1.00
MPT-1343-SS5-4.5-2011-02-17	1102216-20	02/23/11 13:30	15.80	1.00
Blank	1B22029-BLK1	02/23/11 13:30	15.00	1.00
LCS	1B22029-BS1	02/23/11 13:30	15.00	1.00
MPT-1343-SS1-0.5-2011-02-16	1B22029-MS1	02/23/11 13:30	15.20	1.00
MPT-1343-SS1-0.5-2011-02-16	1B22029-MSD1	02/23/11 13:30	15.70	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B26010 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS6-0.5-2011-02-17	1102216-21	02/28/11 12:35	15.60	1.00
MPT-1343-SS6-2.0-2011-02-17	1102216-22	02/28/11 12:35	15.70	1.00
MPT-1343-SS6-4.0-2011-02-17	1102216-23	02/28/11 12:35	15.20	1.00
MPT-1343-SS6-4.5-2011-02-17	1102216-24	02/28/11 12:35	15.50	1.00
Blank	1B26010-BLK1	02/28/11 12:35	15.00	1.00
LCS	1B26010-BS1	02/28/11 12:35	15.00	1.00
LCS Dup	1B26010-BSD1	02/28/11 12:35	15.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/28/11
Instrument ID:	MS-BNA4	Injection Time:	19:40
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54	PASS
68	Less than 2% of 69	1.39	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.407	PASS
127	40 - 60% of 198	57.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.79	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	81.8	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/01/11
Instrument ID:	MS-BNA4	Injection Time:	12:01
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.6	PASS
68	Less than 2% of 69	1.55	PASS
69	Less than 200% of 198	50.4	PASS
70	Less than 2% of 69	0.486	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	1	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.03	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 200% of 198	3.45	PASS
441	0.001 - 100% of 443	82.1	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/08/11
Instrument ID:	MS-BNA4	Injection Time:	10:53
Sequence:	1C06913	Lab Sample ID:	1C06913-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.5	PASS
68	Less than 2% of 69	1.49	PASS
69	Less than 200% of 198	53.6	PASS
70	Less than 2% of 69	0.47	PASS
127	40 - 60% of 198	57.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.47	PASS
441	0.001 - 100% of 443	83.2	PASS
442	40 - 200% of 198	107	PASS
443	17 - 23% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/09/11
Instrument ID:	MS-BNA4	Injection Time:	14:50
Sequence:	1C06916	Lab Sample ID:	1C06916-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	1.56	PASS
69	Less than 200% of 198	50.6	PASS
70	Less than 2% of 69	0.506	PASS
127	40 - 60% of 198	55.1	PASS
197	Less than 1% of 198	0.0445	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.7	PASS
275	10 - 30% of 198	27.5	PASS
365	1 - 200% of 198	4.29	PASS
441	0.001 - 100% of 443	83.2	PASS
442	40 - 200% of 198	158	PASS
443	17 - 23% of 442	19.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/10/11
Instrument ID:	MS-BNA4	Injection Time:	15:27
Sequence:	1C07029	Lab Sample ID:	1C07029-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.5	PASS
68	Less than 2% of 69	1.63	PASS
69	Less than 200% of 198	51.9	PASS
70	Less than 2% of 69	0.44	PASS
127	40 - 60% of 198	55.7	PASS
197	Less than 1% of 198	0.0191	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.91	PASS
275	10 - 30% of 198	28.5	PASS
365	1 - 200% of 198	4.61	PASS
441	0.001 - 100% of 443	81.9	PASS
442	40 - 200% of 198	169	PASS
443	17 - 23% of 442	19.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/11/11
Instrument ID:	MS-BNA4	Injection Time:	12:11
Sequence:	1C07040	Lab Sample ID:	1C07040-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.5	PASS
68	Less than 2% of 69	1.67	PASS
69	Less than 200% of 198	49.6	PASS
70	Less than 2% of 69	0.467	PASS
127	40 - 60% of 198	53.2	PASS
197	Less than 1% of 198	0.297	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.84	PASS
275	10 - 30% of 198	29.1	PASS
365	1 - 200% of 198	4.47	PASS
441	0.001 - 100% of 443	82	PASS
442	40 - 200% of 198	169	PASS
443	17 - 23% of 442	19.8	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06115	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06115-TUN1	SEQ-TUN1.D	02/28/11 19:40
Cal Standard	1C06115-CAL1	SEQ-CAL1.D	02/28/11 19:58
Cal Standard	1C06115-CAL2	SEQ-CAL2.D	02/28/11 20:24
Cal Standard	1C06115-CAL3	SEQ-CAL3.D	02/28/11 20:50
Cal Standard	1C06115-CAL4	SEQ-CAL4.D	02/28/11 21:16
Cal Standard	1C06115-CAL5	SEQ-CAL5.D	02/28/11 21:42
Cal Standard	1C06115-CAL6	SEQ-CAL6.D	02/28/11 22:08
Cal Standard	1C06115-CAL7	SEQ-CAL7.D	02/28/11 22:35
Cal Standard	1C06115-CAL8	SEQ-CAL8.D	02/28/11 23:01
MS Tune	1C06115-TUN2	SEQ-TUN1.D	03/01/11 12:01
Initial Cal Check	1C06115-ICV1	SEQ-ICV1.D	03/01/11 12:19

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06913	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06913-TUN1	SEQ-TUN1.D	03/08/11 10:53
Calibration Check	1C06913-CCV1	SEQ-CCV1.D	03/08/11 11:13
Blank	1B22029-BLK1	B22029B1.D	03/08/11 12:07
LCS	1B22029-BS1	B22029L1.D	03/08/11 12:33
MPT-1343-SS1-4.0-2011-02-16	1102216-03	0221603.D	03/08/11 12:59
MPT-1343-SS2-4.0-2011-02-16	1102216-07	0221607.D	03/08/11 13:24
MPT-1343-SS4-4.0-2011-02-16	1102216-15	0221615.D	03/08/11 13:50
MPT-1343-SS5-2.0-2011-02-17	1102216-18	0221618.D	03/08/11 14:15
MPT-1343-SS5-4.0-2011-02-17	1102216-19	0221619.D	03/08/11 14:41
MPT-1343-SS5-4.5-2011-02-17	1102216-20	0221620.D	03/08/11 15:06
MPT-1343-SS3-0.5-2011-02-16	1102216-09	0221609D.D	03/08/11 15:57
MPT-1343-SS4-2.0-2011-02-16	1102216-14	0221614D.D	03/08/11 16:23
MPT-1343-SS1-0.5-2011-02-16	1102216-01	0221601D.D	03/08/11 17:13
MPT-1343-SS1-0.5-2011-02-16	1B22029-MS1	221601MD.D	03/08/11 17:39
MPT-1343-SS1-0.5-2011-02-16	1B22029-MSD1	221601SD.D	03/08/11 18:04
MPT-1343-SS1-2.0-2011-02-16	1102216-02	0221602.D	03/08/11 18:29
MPT-1343-SS1-4.5-2011-02-16	1102216-04	0221604.D	03/08/11 18:54
MPT-1343-SS2-4.5-2011-02-16	1102216-08	0221608.D	03/08/11 19:20
MPT-1343-SS3-2.0-2011-02-16	1102216-10	0221610.D	03/08/11 19:45
MPT-1343-SS3-4.0-2011-02-16	1102216-11	0221611.D	03/08/11 20:10
MPT-1343-SS2-0.5-2011-02-16	1102216-05	0221605.D	03/08/11 21:26

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06916	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06916-TUN1	SEQ-TUN1.D	03/09/11 14:50
Calibration Check	1C06916-CCV1	SEQ-CCV1.D	03/09/11 15:10
MPT-1343-SS3-4.5-2011-02-16	1102216-12	0221612D.D	03/09/11 17:03
MPT-1343-SS4-4.5-2011-02-16	1102216-16	0221616D.D	03/09/11 17:29
MPT-1343-SS5-0.5-2011-02-17	1102216-17	0221617.D	03/09/11 17:55
MPT-1343-SS2-2.0-2011-02-16	1102216-06	0221606D.D	03/09/11 19:38
MPT-1343-SS4-0.5-2011-02-16	1102216-13	0221613D.D	03/09/11 20:04

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C07029	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C07029-TUN1	SEQ-TUN1.D	03/10/11 15:27
Calibration Check	1C07029-CCV1	SEQ-CCV1.D	03/10/11 15:47
Blank	1B26010-BLK1	B26010B1.D	03/10/11 16:53
LCS	1B26010-BS1	B26010L1.D	03/10/11 17:18
LCS Dup	1B26010-BSD1	B26010L2.D	03/10/11 17:44
MPT-1343-SS6-0.5-2011-02-17	1102216-21	0221621.D	03/10/11 18:09
MPT-1343-SS6-2.0-2011-02-17	1102216-22	0221622D.D	03/10/11 19:26

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C07040	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C07040-TUN1	SEQ-TUN1.D	03/11/11 12:11
Calibration Check	1C07040-CCV1	SEQ-CCV1.D	03/11/11 12:31
MPT-1343-SS6-4.0-2011-02-17	1102216-23	0221623D.D	03/11/11 12:58
MPT-1343-SS6-4.5-2011-02-17	1102216-24	0221624D.D	03/11/11 13:24

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06913
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06913-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/08/11 11:13			
Phenanthrene-d10	140199	10.322	106904	11.432	131	50 - 200	-1.1100	+/-0.50	
Perylene-d12	78634	15.407	80420	16.536	98	50 - 200	-1.1290	+/-0.50	
Blank (1B22029-BLK1)			Lab File ID: B22029B1.D			Analyzed: 03/08/11 12:07			
Phenanthrene-d10	124705	10.322	140199	10.322	89	50 - 200	0.0000	+/-0.50	
Perylene-d12	53235	15.407	78634	15.407	68	50 - 200	0.0000	+/-0.50	
LCS (1B22029-BS1)			Lab File ID: B22029L1.D			Analyzed: 03/08/11 12:33			
Phenanthrene-d10	125997	10.322	140199	10.322	90	50 - 200	0.0000	+/-0.50	
Perylene-d12	53587	15.407	78634	15.407	68	50 - 200	0.0000	+/-0.50	
MPT-1343-SS1-4.0-2011-02-16 (1102216-03)			Lab File ID: 0221603.D			Analyzed: 03/08/11 12:59			
Phenanthrene-d10	131905	10.322	140199	10.322	94	50 - 200	0.0000	+/-0.50	
Perylene-d12	50165	15.407	78634	15.407	64	50 - 200	0.0000	+/-0.50	
MPT-1343-SS2-4.0-2011-02-16 (1102216-07)			Lab File ID: 0221607.D			Analyzed: 03/08/11 13:24			
Phenanthrene-d10	140956	10.322	140199	10.322	101	50 - 200	0.0000	+/-0.50	
Perylene-d12	62671	15.407	78634	15.407	80	50 - 200	0.0000	+/-0.50	
MPT-1343-SS4-4.0-2011-02-16 (1102216-15)			Lab File ID: 0221615.D			Analyzed: 03/08/11 13:50			
Phenanthrene-d10	145436	10.322	140199	10.322	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	57241	15.407	78634	15.407	73	50 - 200	0.0000	+/-0.50	
MPT-1343-SS5-2.0-2011-02-17 (1102216-18)			Lab File ID: 0221618.D			Analyzed: 03/08/11 14:15			
Phenanthrene-d10	143742	10.322	140199	10.322	103	50 - 200	0.0000	+/-0.50	
Perylene-d12	61516	15.407	78634	15.407	78	50 - 200	0.0000	+/-0.50	
MPT-1343-SS5-4.0-2011-02-17 (1102216-19)			Lab File ID: 0221619.D			Analyzed: 03/08/11 14:41			
Phenanthrene-d10	134865	10.322	140199	10.322	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	53316	15.407	78634	15.407	68	50 - 200	0.0000	+/-0.50	
MPT-1343-SS5-4.5-2011-02-17 (1102216-20)			Lab File ID: 0221620.D			Analyzed: 03/08/11 15:06			
Phenanthrene-d10	129590	10.332	140199	10.322	92	50 - 200	0.0100	+/-0.50	
Perylene-d12	68484	15.407	78634	15.407	87	50 - 200	0.0000	+/-0.50	
MPT-1343-SS3-0.5-2011-02-16 (1102216-09)			Lab File ID: 0221609D.D			Analyzed: 03/08/11 15:57			
Phenanthrene-d10	159501	10.322	140199	10.322	114	50 - 200	0.0000	+/-0.50	
Perylene-d12	84607	15.407	78634	15.407	108	50 - 200	0.0000	+/-0.50	
MPT-1343-SS4-2.0-2011-02-16 (1102216-14)			Lab File ID: 0221614D.D			Analyzed: 03/08/11 16:23			
Phenanthrene-d10	155042	10.322	140199	10.322	111	50 - 200	0.0000	+/-0.50	
Perylene-d12	63813	15.407	78634	15.407	81	50 - 200	0.0000	+/-0.50	
MPT-1343-SS1-0.5-2011-02-16 (1102216-01)			Lab File ID: 0221601D.D			Analyzed: 03/08/11 17:13			
Phenanthrene-d10	161796	10.322	140199	10.322	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	51033	15.407	78634	15.407	65	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06913
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (1B22029-MS1)			Lab File ID: 221601MD.D			Analyzed: 03/08/11 17:39			
Phenanthrene-d10	147893	10.322	140199	10.322	105	50 - 200	0.0000	+/-0.50	
Perylene-d12	49327	15.407	78634	15.407	63	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (1B22029-MSD1)			Lab File ID: 221601SD.D			Analyzed: 03/08/11 18:04			
Phenanthrene-d10	150141	10.322	140199	10.322	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	48829	15.407	78634	15.407	62	50 - 200	0.0000	+/-0.50	
MPT-1343-SS1-2.0-2011-02-16 (1102216-02)			Lab File ID: 0221602.D			Analyzed: 03/08/11 18:29			
Phenanthrene-d10	149484	10.322	140199	10.322	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	65091	15.407	78634	15.407	83	50 - 200	0.0000	+/-0.50	
MPT-1343-SS1-4.5-2011-02-16 (1102216-04)			Lab File ID: 0221604.D			Analyzed: 03/08/11 18:54			
Phenanthrene-d10	137374	10.322	140199	10.322	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	38353	15.407	78634	15.407	49	50 - 200	0.0000	+/-0.50	*
MPT-1343-SS2-4.5-2011-02-16 (1102216-08)			Lab File ID: 0221608.D			Analyzed: 03/08/11 19:20			
Phenanthrene-d10	144106	10.322	140199	10.322	103	50 - 200	0.0000	+/-0.50	
Perylene-d12	45749	15.407	78634	15.407	58	50 - 200	0.0000	+/-0.50	
MPT-1343-SS3-2.0-2011-02-16 (1102216-10)			Lab File ID: 0221610.D			Analyzed: 03/08/11 19:45			
Phenanthrene-d10	134684	10.322	140199	10.322	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	38930	15.407	78634	15.407	50	50 - 200	0.0000	+/-0.50	
MPT-1343-SS3-4.0-2011-02-16 (1102216-11)			Lab File ID: 0221611.D			Analyzed: 03/08/11 20:10			
Phenanthrene-d10	143606	10.322	140199	10.322	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	43853	15.407	78634	15.407	56	50 - 200	0.0000	+/-0.50	
MPT-1343-SS2-0.5-2011-02-16 (1102216-05)			Lab File ID: 0221605.D			Analyzed: 03/08/11 21:26			
Phenanthrene-d10	117891	10.322	140199	10.322	84	50 - 200	0.0000	+/-0.50	
Perylene-d12	40676	15.417	78634	15.407	52	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06916
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06916-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/09/11 15:10			
Phenanthrene-d10	150708	10.248	106904	11.432	141	50 - 200	-1.1840	+/-0.50	
Perylene-d12	109951	15.314	80420	16.536	137	50 - 200	-1.2220	+/-0.50	
MPT-1343-SS3-4.5-2011-02-16 (1102216-12)			Lab File ID: 0221612D.D			Analyzed: 03/09/11 17:03			
Phenanthrene-d10	114006	10.257	150708	10.248	76	50 - 200	0.0090	+/-0.50	
Perylene-d12	50842	15.324	109951	15.314	46	50 - 200	0.0100	+/-0.50	*
MPT-1343-SS4-4.5-2011-02-16 (1102216-16)			Lab File ID: 0221616D.D			Analyzed: 03/09/11 17:29			
Phenanthrene-d10	127156	10.257	150708	10.248	84	50 - 200	0.0090	+/-0.50	
Perylene-d12	55213	15.324	109951	15.314	50	50 - 200	0.0100	+/-0.50	
MPT-1343-SS5-0.5-2011-02-17 (1102216-17)			Lab File ID: 0221617.D			Analyzed: 03/09/11 17:55			
Phenanthrene-d10	134959	10.257	150708	10.248	90	50 - 200	0.0090	+/-0.50	
Perylene-d12	61774	15.333	109951	15.314	56	50 - 200	0.0190	+/-0.50	
MPT-1343-SS2-2.0-2011-02-16 (1102216-06)			Lab File ID: 0221606D.D			Analyzed: 03/09/11 19:38			
Phenanthrene-d10	133275	10.257	150708	10.248	88	50 - 200	0.0090	+/-0.50	
Perylene-d12	51304	15.324	109951	15.314	47	50 - 200	0.0100	+/-0.50	*
MPT-1343-SS4-0.5-2011-02-16 (1102216-13)			Lab File ID: 0221613D.D			Analyzed: 03/09/11 20:04			
Phenanthrene-d10	131945	10.257	150708	10.248	88	50 - 200	0.0090	+/-0.50	
Perylene-d12	42694	15.324	109951	15.314	39	50 - 200	0.0100	+/-0.50	*

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07029
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C07029-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/10/11 15:47			
Phenanthrene-d10	136575	10.201	106904	11.432	128	50 - 200	-1.2310	+/-0.50	
Perylene-d12	76060	15.259	80420	16.536	95	50 - 200	-1.2770	+/-0.50	
Blank (1B26010-BLK1)			Lab File ID: B26010B1.D			Analyzed: 03/10/11 16:53			
Phenanthrene-d10	123413	10.201	136575	10.201	90	50 - 200	0.0000	+/-0.50	
Perylene-d12	49569	15.259	76060	15.259	65	50 - 200	0.0000	+/-0.50	
LCS (1B26010-BS1)			Lab File ID: B26010L1.D			Analyzed: 03/10/11 17:18			
Phenanthrene-d10	122824	10.201	136575	10.201	90	50 - 200	0.0000	+/-0.50	
Perylene-d12	53219	15.258	76060	15.259	70	50 - 200	-0.0010	+/-0.50	
LCS Dup (1B26010-BSD1)			Lab File ID: B26010L2.D			Analyzed: 03/10/11 17:44			
Phenanthrene-d10	128390	10.201	136575	10.201	94	50 - 200	0.0000	+/-0.50	
Perylene-d12	67414	15.259	76060	15.259	89	50 - 200	0.0000	+/-0.50	
MPT-1343-SS6-0.5-2011-02-17 (1102216-21)			Lab File ID: 0221621.D			Analyzed: 03/10/11 18:09			
Phenanthrene-d10	121835	10.211	136575	10.201	89	50 - 200	0.0100	+/-0.50	
Perylene-d12	56666	15.268	76060	15.259	75	50 - 200	0.0090	+/-0.50	
MPT-1343-SS6-2.0-2011-02-17 (1102216-22)			Lab File ID: 0221622D.D			Analyzed: 03/10/11 19:26			
Phenanthrene-d10	131837	10.229	136575	10.201	97	50 - 200	0.0280	+/-0.50	
Perylene-d12	52773	15.268	76060	15.259	69	50 - 200	0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07040
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C07040-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/11/11 12:31			
Phenanthrene-d10	121735	10.155	106904	11.432	114	50 - 200	-1.2770	+/-0.50	
Perylene-d12	69718	15.203	80420	16.536	87	50 - 200	-1.3330	+/-0.50	
MPT-1343-SS6-4.0-2011-02-17 (1102216-23)			Lab File ID: 0221623D.D			Analyzed: 03/11/11 12:58			
Phenanthrene-d10	123270	10.192	121735	10.155	101	50 - 200	0.0370	+/-0.50	
Perylene-d12	64517	15.203	69718	15.203	93	50 - 200	0.0000	+/-0.50	
MPT-1343-SS6-4.5-2011-02-17 (1102216-24)			Lab File ID: 0221624D.D			Analyzed: 03/11/11 13:24			
Phenanthrene-d10	119674	10.183	121735	10.155	98	50 - 200	0.0280	+/-0.50	
Perylene-d12	46849	15.203	69718	15.203	67	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.2	0.8535207	0.5	0.873421	1	0.9064357	5	0.8395738	10	0.784535	20	0.8168652
Acenaphthylene	0.2	1.382044	0.5	1.218477	1	1.435272	5	1.311268	10	1.208637	20	1.217291
Anthracene	0.2	1.058534	0.5	1.093939	1	1.125915	5	1.133941	10	1.170225	20	1.132615
Benzo(a)anthracene	0.2	0.6476147	0.5	0.7623581	1	0.8156699	5	0.8984042	10	1.054533	20	0.8423353
Benzo(a)pyrene	0.2	1.02565	0.5	1.014554	1	1.005352	5	1.046623	10	1.13987	20	1.083464
Benzo(b)fluoranthene	0.2	1.352174	0.5	1.123357	1	1.241503	5	1.234178	10	1.470413	20	1.430442
Benzo(g,h,i)perylene	0.2	1.25079	0.5	0.9738602	1	0.9538002	5	0.8937802	10	0.8523731	20	0.9100527
Benzo(k)fluoranthene	0.2	1.25079	0.5	1.187413	1	1.228864	5	1.399423	10	1.350928	20	1.327367
Chrysene	0.2	0.7374538	0.5	0.8493865	1	0.842695	5	0.9126712	10	1.060452	20	0.7892754
Dibenz(a,h)anthracene	0.2	0.9186101	0.5	0.772847	1	0.7332764	5	0.807053	10	0.8074299	20	0.8601228
Fluoranthene	0.2	1.051742	0.5	1.162418	1	1.179913	5	1.225501	10	1.272376	20	1.210129
Fluorene	0.2	0.7020536	0.5	0.7674959	1	0.8242432	5	0.8055957	10	0.8027371	20	0.8141917
2-Fluorobiphenyl	0.2	0.9678027	0.5	0.9267382	1	0.971158	5	0.9172978	10	0.8347461	20	0.8721172
Indeno(1,2,3-cd)pyrene	0.2	1.19648	0.5	1.0475	1	1.041161	5	1.035051	10	1.034813	20	1.078813
1-Methylnaphthalene	0.2	1.063294	0.5	0.9409067	1	0.9548364	5	0.8620632	10	0.8000648	20	0.8432121
2-Methylnaphthalene	0.2	1.091703	0.5	0.9503314	1	0.953009	5	0.8485033	10	0.790738	20	0.8347751
Naphthalene	0.2	1.685474	0.5	1.472423	1	1.51616	5	1.341546	10	1.240043	20	1.318205
Phenanthrene	0.2	1.134937	0.5	1.1581	1	1.184863	5	1.175284	10	1.202262	20	1.17303
Pyrene	0.2	1.092794	0.5	1.147446	1	1.174827	5	1.234693	10	1.289576	20	1.223257
Terphenyl-d14	0.2	0.6118179	0.5	0.7063144	1	0.7228992	5	0.7705175	10	0.8117648	20	0.7422102
2,4,6-Tribromophenol	0.4	~~6.326415E-02~~	1	~~8.579129E-02~~	2	~~0.1089983~~	10	0.1584169	20	0.1656128	40	0.175367
1,4-Dichlorobenzene-d4	1		1		1		1		1		1	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	40	0.7820316	50	0.7652934								
Acenaphthylene	40	1.094458	50	1.018169								
Anthracene	40	1.152126	50	1.196303								
Benzo(a)anthracene	40	1.003107	50	0.9291589								
Benzo(a)pyrene	40	1.080537	50	1.058466								
Benzo(b)fluoranthene	40	1.335067	50	1.516975								
Benzo(g,h,i)perylene	40	0.9253269	50	0.8257036								
Benzo(k)fluoranthene	40	1.386509	50	1.229503								
Chrysene	40	0.9474654	50	0.8935192								
Dibenz(a,h)anthracene	40	0.8924079	50	0.7981977								
Fluoranthene	40	1.255338	50	1.219358								
Fluorene	40	0.7859858	50	0.8053954								
2-Fluorobiphenyl	40	0.8111573	50	0.8142831								
Indeno(1,2,3-cd)pyrene	40	1.109845	50	0.9998711								
1-Methylnaphthalene	40	0.7771338	50	0.7467535								
2-Methylnaphthalene	40	0.7827356	50	0.7506397								
Naphthalene	40	1.179985	50	1.155622								
Phenanthrene	40	1.176864	50	1.189216								
Pyrene	40	1.276995	50	1.213951								
Terphenyl-d14	40	0.8018532	50	0.7661409								
2,4,6-Tribromophenol	80	0.1735388	100	0.164136								
1,4-Dichlorobenzene-d4	1		1									

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1061004	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/28/2011 7:58:20PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8277096	5.964029	9.633875	8.915397E-02			CCC (30)	
Acenaphthylene	1.235702	11.26304	9.425	6.665902E-02			15	
Anthracene	1.13295	3.786272	11.52837	6.266625E-02			15	
Benzo(a)anthracene	0.8691476	15.11626	14.71213	5.462316E-02	0.9952477		0.995	
Benzo(a)pyrene	1.056815	4.183578	16.4705	5.396188E-02			CCC (30)	
Benzo(b)fluoranthene	1.338014	9.966544	16.07662	5.173099E-02			15	
Benzo(g,h,i)perylene	0.9482109	13.88728	18.45625	7.723512E-02			15	
Benzo(k)fluoranthene	1.2951	6.235241	16.108	5.845528E-02			15	
Chrysene	0.8791148	11.31297	14.76	4.591394E-02			15	
Dibenz(a,h)anthracene	0.8237431	7.540873	18.024	5.675539E-02			15	
Fluoranthene	1.197097	5.749219	12.9345	5.235663E-02			CCC (30)	
Fluorene	0.7884623	4.944379	10.27338	6.435991E-02			15	
2-Fluorobiphenyl	0.8894126	7.367129	8.767375	5.071162E-02			15	
Indeno(1,2,3-cd)pyrene	1.067942	5.744412	18.02163	5.897508E-02			15	
1-Methylnaphthalene	0.8735331	12.15937	8.4405	5.284201E-02			15	
2-Methylnaphthalene	0.8753044	13.10583	8.321125	5.827663E-02			15	
Naphthalene	1.363682	13.39317	7.482125	3.967633E-02			15	
Phenanthrene	1.17432	1.744274	11.461	5.511778E-02			15	
Pyrene	1.206692	5.463181	13.21437	5.315315E-02			15	
Terphenyl-d14	0.7416898	8.59253	13.40512	3.369558E-02			15	
2,4,6-Tribromophenol	0.1674143	4.178063	10.5764	9.131494E-02			15	
1,4-Dichlorobenzene-d4							15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06115	Injection Date:	03/01/11
Lab Sample ID:	1C06115-ICV1	Injection Time:	12:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.234	0.8277096	0.8665216		4.7	20
Acenaphthylene	A	5.000	5.787	1.235702	1.430186		15.7	20
Anthracene	A	5.000	5.426	1.13295	1.229415		8.5	20
Benzo(a)anthracene	L	5.000	4.970	0.8691476	0.9136814		-0.6	20
Benzo(a)pyrene	A	5.000	5.399	1.056815	1.141205		8.0	20
Benzo(b)fluoranthene	A	5.000	4.866	1.338014	1.302123		-2.7	20
Benzo(g,h,i)perylene	A	5.000	4.830	0.9482109	0.9159273		-3.4	20
Benzo(k)fluoranthene	A	5.000	5.796	1.2951	1.501354		15.9	20
Chrysene	A	5.000	5.406	0.8791148	0.9505258		8.1	20
Dibenz(a,h)anthracene	A	5.000	4.789	0.8237431	0.7889492		-4.2	20
Fluoranthene	A	5.000	5.284	1.197097	1.265188		5.7	20
Fluorene	A	5.000	5.335	0.7884623	0.8413243		6.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.885	1.067942	1.043478		-2.3	20
1-Methylnaphthalene	A	5.000	5.030	0.8735331	0.8786867		0.6	20
2-Methylnaphthalene	A	5.000	5.052	0.8753044	0.88448		1.0	20
Naphthalene	A	5.000	5.217	1.363682	1.422778		4.3	20
Phenanthrene	A	5.000	5.384	1.17432	1.264507		7.7	20
Pyrene	A	5.000	5.486	1.206692	1.324032		9.7	20
2-Fluorobiphenyl	A	5.000	5.477	0.8894126	0.974327		9.5	20
Terphenyl-d14	A	5.000	5.816	0.7416898	0.8626973		16.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06913	Injection Date:	03/08/11
Lab Sample ID:	1C06913-CCV1	Injection Time:	11:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.233	0.8277096	0.8663143		4.7	20
Acenaphthylene	A	5.000	5.073	1.235702	1.253751		1.5	20
Anthracene	A	5.000	4.736	1.13295	1.073086		-5.3	20
Benzo(a)anthracene	L	5.000	4.472	0.8691476	0.8182113		-10.6	20
Benzo(a)pyrene	A	5.000	4.920	1.056815	1.039899		-1.6	20
Benzo(b)fluoranthene	A	5.000	4.487	1.338014	1.200745		-10.3	20
Benzo(g,h,i)perylene	A	5.000	4.247	0.9482109	0.8054073		-15.1	20
Benzo(k)fluoranthene	A	5.000	5.323	1.2951	1.378783		6.5	20
Chrysene	A	5.000	4.309	0.8791148	0.7575789		-13.8	20
Dibenz(a,h)anthracene	A	5.000	4.541	0.8237431	0.7481649		-9.2	20
Fluoranthene	A	5.000	4.561	1.197097	1.092088		-8.8	20
Fluorene	A	5.000	4.790	0.7884623	0.7553007		-4.2	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.463	1.067942	0.953351		-10.7	20
1-Methylnaphthalene	A	5.000	5.137	0.8735331	0.8975		2.7	20
2-Methylnaphthalene	A	5.000	4.714	0.8753044	0.8251942		-5.7	20
Naphthalene	A	5.000	4.658	1.363682	1.270349		-6.8	20
Phenanthrene	A	5.000	4.737	1.17432	1.112527		-5.3	20
Pyrene	A	5.000	4.915	1.206692	1.186267		-1.7	20
2-Fluorobiphenyl	A	5.000	4.954	0.8894126	0.8811817		-0.9	20
Terphenyl-d14	A	5.000	4.841	0.7416898	0.7180978		-3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06916	Injection Date:	03/09/11
Lab Sample ID:	1C06916-CCV1	Injection Time:	15:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	4.814	0.8277096	0.7969292		-3.7	20	
Acenaphthylene	A	5.000	4.851	1.235702	1.198989		-3.0	20	
Anthracene	A	5.000	4.775	1.13295	1.081907		-4.5	20	
Benzo(a)anthracene	L	5.000	4.520	0.8691476	0.8273682		-9.6	20	
Benzo(a)pyrene	A	5.000	4.596	1.056815	0.9715473		-8.1	20	
Benzo(b)fluoranthene	A	5.000	3.996	1.338014	1.069265		-20.1	20	*
Benzo(g,h,i)perylene	A	5.000	4.817	0.9482109	0.9134906		-3.7	20	
Benzo(k)fluoranthene	A	5.000	5.020	1.2951	1.300266		0.4	20	
Chrysene	A	5.000	4.564	0.8791148	0.8025201		-8.7	20	
Dibenz(a,h)anthracene	A	5.000	5.181	0.8237431	0.8536403		3.6	20	
Fluoranthene	A	5.000	4.545	1.197097	1.088087		-9.1	20	
Fluorene	A	5.000	4.900	0.7884623	0.7727194		-2.0	20	
Indeno(1,2,3-cd)pyrene	A	5.000	5.064	1.067942	1.081682		1.3	20	
1-Methylnaphthalene	A	5.000	4.319	0.8735331	0.7546394		-13.6	20	
2-Methylnaphthalene	A	5.000	4.490	0.8753044	0.7861109		-10.2	20	
Naphthalene	A	5.000	4.365	1.363682	1.190603		-12.7	20	
Phenanthrene	A	5.000	4.800	1.17432	1.127302		-4.0	20	
Pyrene	A	5.000	4.806	1.206692	1.159856		-3.9	20	
2-Fluorobiphenyl	A	5.000	4.783	0.8894126	0.8507591		-4.3	20	
Terphenyl-d14	A	5.000	4.741	0.7416898	0.7033031		-5.2	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C07029	Injection Date:	03/10/11
Lab Sample ID:	1C07029-CCV1	Injection Time:	15:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.972	0.8277096	0.8231023		-0.6	20
Acenaphthylene	A	5.000	5.198	1.235702	1.284644		4.0	20
Anthracene	A	5.000	4.714	1.13295	1.068048		-5.7	20
Benzo(a)anthracene	L	5.000	4.029	0.8691476	0.7333216		-19.4	20
Benzo(a)pyrene	A	5.000	4.937	1.056815	1.043529		-1.3	20
Benzo(b)fluoranthene	A	5.000	4.796	1.338014	1.283384		-4.1	20
Benzo(g,h,i)perylene	A	5.000	4.362	0.9482109	0.8272758		-12.8	20
Benzo(k)fluoranthene	A	5.000	4.789	1.2951	1.240455		-4.2	20
Chrysene	A	5.000	4.046	0.8791148	0.7113806		-19.1	20
Dibenz(a,h)anthracene	A	5.000	4.577	0.8237431	0.754031		-8.5	20
Fluoranthene	A	5.000	4.325	1.197097	1.035447		-13.5	20
Fluorene	A	5.000	5.176	0.7884623	0.8162328		3.5	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.484	1.067942	0.9577676		-10.3	20
1-Methylnaphthalene	A	5.000	4.693	0.8735331	0.8199524		-6.1	20
2-Methylnaphthalene	A	5.000	4.781	0.8753044	0.8369189		-4.4	20
Naphthalene	A	5.000	4.746	1.363682	1.294421		-5.1	20
Phenanthrene	A	5.000	4.927	1.17432	1.15712		-1.5	20
Pyrene	A	5.000	4.453	1.206692	1.074793		-10.9	20
2-Fluorobiphenyl	A	5.000	5.075	0.8894126	0.9027655		1.5	20
Terphenyl-d14	A	5.000	4.538	0.7416898	0.6732462		-9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C07040	Injection Date:	03/11/11
Lab Sample ID:	1C07040-CCV1	Injection Time:	12:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	5.045	0.8277096	0.835137		0.9	20	
Acenaphthylene	A	5.000	5.075	1.235702	1.254178		1.5	20	
Anthracene	A	5.000	4.484	1.13295	1.015921		-10.3	20	
Benzo(a)anthracene	L	5.000	4.021	0.8691476	0.7319308		-19.6	20	
Benzo(a)pyrene	A	5.000	4.867	1.056815	1.028713		-2.7	20	
Benzo(b)fluoranthene	A	5.000	4.318	1.338014	1.155627		-13.6	20	
Benzo(g,h,i)perylene	A	5.000	3.788	0.9482109	0.7183367		-24.2	20	*
Benzo(k)fluoranthene	A	5.000	5.286	1.2951	1.369107		5.7	20	
Chrysene	A	5.000	4.072	0.8791148	0.7159305		-18.6	20	
Dibenz(a,h)anthracene	A	5.000	4.097	0.8237431	0.6749935		-18.1	20	
Fluoranthene	A	5.000	4.329	1.197097	1.036515		-13.4	20	
Fluorene	A	5.000	5.187	0.7884623	0.8179866		3.7	20	
Indeno(1,2,3-cd)pyrene	A	5.000	4.064	1.067942	0.8679251		-18.7	20	
1-Methylnaphthalene	A	5.000	4.938	0.8735331	0.8626525		-1.2	20	
2-Methylnaphthalene	A	5.000	4.883	0.8753044	0.8548355		-2.3	20	
Naphthalene	A	5.000	4.848	1.363682	1.322246		-3.0	20	
Phenanthrene	A	5.000	4.758	1.17432	1.117394		-4.8	20	
Pyrene	A	5.000	4.568	1.206692	1.102375		-8.6	20	
2-Fluorobiphenyl	A	5.000	4.948	0.8894126	0.8802103		-1.0	20	
Terphenyl-d14	A	5.000	4.619	0.7416898	0.6851752		-7.6	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22029-BLK1 File ID: B22029B1.D

Sampled: Prepared: Analyzed: 03/08/11 12:07

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.67	3.33	6.67	U
208-96-8	Acenaphthylene		1.67	3.33	6.67	U
120-12-7	Anthracene		1.67	3.33	6.67	U
56-55-3	Benzo(a)anthracene		1.67	3.33	6.67	U
50-32-8	Benzo(a)pyrene		1.67	3.33	6.67	U
205-99-2	Benzo(b)fluoranthene		1.67	3.33	6.67	U
191-24-2	Benzo(g,h,i)perylene		1.67	3.33	6.67	U
207-08-9	Benzo(k)fluoranthene		1.67	3.33	6.67	U
218-01-9	Chrysene		1.67	3.33	6.67	U
53-70-3	Dibenz(a,h)anthracene		1.67	3.33	6.67	U
206-44-0	Fluoranthene		1.67	3.33	6.67	U
86-73-7	Fluorene		1.67	3.33	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.67	3.33	6.67	U
90-12-0	1-Methylnaphthalene		1.67	3.33	6.67	U
91-57-6	2-Methylnaphthalene		1.67	3.33	6.67	U
91-20-3	Naphthalene		1.67	3.33	6.67	U
85-01-8	Phenanthrene		1.67	3.33	6.67	U
129-00-0	Pyrene		1.67	3.33	6.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2883	86.5	14 - 129	
Terphenyl-d14	3333	2789	83.7	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22029-BS1 File ID: B22029L1.D

Sampled: Prepared: Analyzed: 03/08/11 12:33

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	63.97	1.67	3.33	6.67	
208-96-8	Acenaphthylene	59.07	1.67	3.33	6.67	
120-12-7	Anthracene	57.21	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	54.20	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	56.28	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	57.92	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	47.86	1.67	3.33	6.67	
207-08-9	Benzo(k)fluoranthene	61.50	1.67	3.33	6.67	
218-01-9	Chrysene	45.95	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	45.02	1.67	3.33	6.67	
206-44-0	Fluoranthene	52.70	1.67	3.33	6.67	
86-73-7	Fluorene	62.32	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	43.03	1.67	3.33	6.67	
90-12-0	1-Methylnaphthalene	64.57	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	61.53	1.67	3.33	6.67	
91-20-3	Naphthalene	58.22	1.67	3.33	6.67	
85-01-8	Phenanthrene	61.87	1.67	3.33	6.67	
129-00-0	Pyrene	53.79	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2862	85.9	14 - 129	
Terphenyl-d14	3333	2556	76.7	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22029-MS1 File ID: 221601MD.D

Sampled: Prepared: Analyzed: 03/08/11 17:39

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	62.95	8.89	17.7	35.5	D
208-96-8	Acenaphthylene	58.57	8.89	17.7	35.5	D
120-12-7	Anthracene	66.49	8.89	17.7	35.5	D
56-55-3	Benzo(a)anthracene	120.9	8.89	17.7	35.5	D
50-32-8	Benzo(a)pyrene	72.08	8.89	17.7	35.5	D
205-99-2	Benzo(b)fluoranthene	73.52	8.89	17.7	35.5	D
191-24-2	Benzo(g,h,i)perylene	56.64	8.89	17.7	35.5	D
207-08-9	Benzo(k)fluoranthene	75.54	8.89	17.7	35.5	D
218-01-9	Chrysene	48.56	8.89	17.7	35.5	D
53-70-3	Dibenz(a,h)anthracene	52.75	8.89	17.7	35.5	D
206-44-0	Fluoranthene	70.19	8.89	17.7	35.5	D
86-73-7	Fluorene	67.78	8.89	17.7	35.5	D
193-39-5	Indeno(1,2,3-cd)pyrene	57.56	8.89	17.7	35.5	D
90-12-0	1-Methylnaphthalene	60.14	8.89	17.7	35.5	D
91-57-6	2-Methylnaphthalene	56.66	8.89	17.7	35.5	D
91-20-3	Naphthalene	53.00	8.89	17.7	35.5	D
85-01-8	Phenanthrene	69.93	8.89	17.7	35.5	D
129-00-0	Pyrene	69.32	8.89	17.7	35.5	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3550	2797	78.8	14 - 129	
Terphenyl-d14	3550	2718	76.6	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22029-MSD1 File ID: 221601SD.D

Sampled: Prepared: Analyzed: 03/08/11 18:04

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22029 Sequence: 1C06913 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	56.20	8.61	17.2	34.4	D
208-96-8	Acenaphthylene	50.65	8.61	17.2	34.4	D
120-12-7	Anthracene	55.78	8.61	17.2	34.4	D
56-55-3	Benzo(a)anthracene	111.9	8.61	17.2	34.4	D
50-32-8	Benzo(a)pyrene	68.13	8.61	17.2	34.4	D
205-99-2	Benzo(b)fluoranthene	68.02	8.61	17.2	34.4	D
191-24-2	Benzo(g,h,i)perylene	44.34	8.61	17.2	34.4	D
207-08-9	Benzo(k)fluoranthene	66.20	8.61	17.2	34.4	D
218-01-9	Chrysene	45.11	8.61	17.2	34.4	D
53-70-3	Dibenz(a,h)anthracene	50.56	8.61	17.2	34.4	D
206-44-0	Fluoranthene	64.36	8.61	17.2	34.4	D
86-73-7	Fluorene	59.73	8.61	17.2	34.4	D
193-39-5	Indeno(1,2,3-cd)pyrene	41.18	8.61	17.2	34.4	D
90-12-0	1-Methylnaphthalene	54.79	8.61	17.2	34.4	D
91-57-6	2-Methylnaphthalene	50.20	8.61	17.2	34.4	D
91-20-3	Naphthalene	50.13	8.61	17.2	34.4	D
85-01-8	Phenanthrene	59.84	8.61	17.2	34.4	D
129-00-0	Pyrene	66.06	8.61	17.2	34.4	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3437	2381	69.3	14 - 129	
Terphenyl-d14	3437	2384	69.3	14 - 129	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26010-BLK1 File ID: B26010B1.D

Sampled: Prepared: Analyzed: 03/10/11 16:53

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B26010 Sequence: 1C07029 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.67	3.33	6.67	U
208-96-8	Acenaphthylene		1.67	3.33	6.67	U
120-12-7	Anthracene		1.67	3.33	6.67	U
56-55-3	Benzo(a)anthracene		1.67	3.33	6.67	U
50-32-8	Benzo(a)pyrene		1.67	3.33	6.67	U
205-99-2	Benzo(b)fluoranthene		1.67	3.33	6.67	U
191-24-2	Benzo(g,h,i)perylene		1.67	3.33	6.67	U
207-08-9	Benzo(k)fluoranthene		1.67	3.33	6.67	U
218-01-9	Chrysene		1.67	3.33	6.67	U
53-70-3	Dibenz(a,h)anthracene		1.67	3.33	6.67	U
206-44-0	Fluoranthene		1.67	3.33	6.67	U
86-73-7	Fluorene		1.67	3.33	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.67	3.33	6.67	U
90-12-0	1-Methylnaphthalene		1.67	3.33	6.67	U
91-57-6	2-Methylnaphthalene		1.67	3.33	6.67	U
91-20-3	Naphthalene		1.67	3.33	6.67	U
85-01-8	Phenanthrene		1.67	3.33	6.67	U
129-00-0	Pyrene		1.67	3.33	6.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2935	88.1	14 - 129	
Terphenyl-d14	3333	2805	84.1	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26010-BS1 File ID: B26010L1.D

Sampled: Prepared: Analyzed: 03/10/11 17:18

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B26010 Sequence: 1C07029 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	61.05	1.67	3.33	6.67	
208-96-8	Acenaphthylene	53.27	1.67	3.33	6.67	
120-12-7	Anthracene	52.72	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	51.44	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	47.28	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	57.14	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	52.10	1.67	3.33	6.67	
207-08-9	Benzo(k)fluoranthene	60.24	1.67	3.33	6.67	
218-01-9	Chrysene	42.72	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	49.62	1.67	3.33	6.67	
206-44-0	Fluoranthene	51.18	1.67	3.33	6.67	
86-73-7	Fluorene	62.54	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	49.67	1.67	3.33	6.67	
90-12-0	1-Methylnaphthalene	57.06	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	59.07	1.67	3.33	6.67	
91-20-3	Naphthalene	56.18	1.67	3.33	6.67	
85-01-8	Phenanthrene	58.34	1.67	3.33	6.67	
129-00-0	Pyrene	51.07	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2838	85.1	14 - 129	
Terphenyl-d14	3333	2685	80.5	14 - 129	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26010-BSD1 File ID: B26010L2.D

Sampled: Prepared: Analyzed: 03/10/11 17:44

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B26010 Sequence: 1C07029 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	58.02	1.67	3.33	6.67	
208-96-8	Acenaphthylene	49.26	1.67	3.33	6.67	
120-12-7	Anthracene	56.70	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	55.94	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	47.58	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	53.69	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	53.99	1.67	3.33	6.67	
207-08-9	Benzo(k)fluoranthene	54.06	1.67	3.33	6.67	
218-01-9	Chrysene	46.70	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	49.49	1.67	3.33	6.67	
206-44-0	Fluoranthene	52.36	1.67	3.33	6.67	
86-73-7	Fluorene	61.22	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	49.28	1.67	3.33	6.67	
90-12-0	1-Methylnaphthalene	54.97	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	56.90	1.67	3.33	6.67	
91-20-3	Naphthalene	55.82	1.67	3.33	6.67	
85-01-8	Phenanthrene	60.08	1.67	3.33	6.67	
129-00-0	Pyrene	51.62	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2783	83.5	14 - 129	
Terphenyl-d14	3333	2758	82.8	14 - 129	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS1-0.5-2011-02-16	02/16/11 10:25	02/21/11 08:45	02/23/11 13:30	7.17	14.00	03/08/11 17:13	13.15	40.00	
MPT-1343-SS1-2.0-2011-02-16	02/16/11 10:30	02/21/11 08:45	02/23/11 13:30	7.17	14.00	03/08/11 18:29	13.21	40.00	
MPT-1343-SS1-4.0-2011-02-16	02/16/11 10:40	02/21/11 08:45	02/23/11 13:30	7.16	14.00	03/08/11 12:59	12.98	40.00	
MPT-1343-SS1-4.5-2011-02-16	02/16/11 10:50	02/21/11 08:45	02/23/11 13:30	7.15	14.00	03/08/11 18:54	13.23	40.00	
MPT-1343-SS2-0.5-2011-02-16	02/16/11 11:25	02/21/11 08:45	02/23/11 13:30	7.13	14.00	03/08/11 21:26	13.33	40.00	
MPT-1343-SS2-2.0-2011-02-16	02/16/11 11:30	02/21/11 08:45	02/23/11 13:30	7.13	14.00	03/09/11 19:38	14.26	40.00	
MPT-1343-SS2-4.0-2011-02-16	02/16/11 11:40	02/21/11 08:45	02/23/11 13:30	7.12	14.00	03/08/11 13:24	13.00	40.00	
MPT-1343-SS2-4.5-2011-02-16	02/16/11 11:45	02/21/11 08:45	02/23/11 13:30	7.11	14.00	03/08/11 19:20	13.24	40.00	
MPT-1343-SS3-0.5-2011-02-16	02/16/11 14:00	02/21/11 08:45	02/23/11 13:30	7.02	14.00	03/08/11 15:57	13.10	40.00	
MPT-1343-SS3-2.0-2011-02-16	02/16/11 14:10	02/21/11 08:45	02/23/11 13:30	7.01	14.00	03/08/11 19:45	13.26	40.00	
MPT-1343-SS3-4.0-2011-02-16	02/16/11 14:20	02/21/11 08:45	02/23/11 13:30	7.01	14.00	03/08/11 20:10	13.28	40.00	
MPT-1343-SS3-4.5-2011-02-16	02/16/11 14:25	02/21/11 08:45	02/23/11 13:30	7.00	14.00	03/09/11 17:03	14.15	40.00	
MPT-1343-SS4-0.5-2011-02-16	02/16/11 15:15	02/21/11 08:45	02/23/11 13:30	6.97	14.00	03/09/11 20:04	14.27	40.00	
MPT-1343-SS4-2.0-2011-02-16	02/16/11 15:25	02/21/11 08:45	02/23/11 13:30	6.96	14.00	03/08/11 16:23	13.12	40.00	
MPT-1343-SS4-4.0-2011-02-16	02/16/11 15:30	02/21/11 08:45	02/23/11 13:30	6.96	14.00	03/08/11 13:50	13.01	40.00	
MPT-1343-SS4-4.5-2011-02-16	02/16/11 15:35	02/21/11 08:45	02/23/11 13:30	6.95	14.00	03/09/11 17:29	14.17	40.00	
MPT-1343-SS5-0.5-2011-02-17	02/17/11 10:00	02/21/11 08:45	02/23/11 13:30	6.19	14.00	03/09/11 17:55	14.18	40.00	
MPT-1343-SS5-2.0-2011-02-17	02/17/11 10:05	02/21/11 08:45	02/23/11 13:30	6.18	14.00	03/08/11 14:15	13.03	40.00	
MPT-1343-SS5-4.0-2011-02-17	02/17/11 10:10	02/21/11 08:45	02/23/11 13:30	6.18	14.00	03/08/11 14:41	13.05	40.00	
MPT-1343-SS5-4.5-2011-02-17	02/17/11 10:15	02/21/11 08:45	02/23/11 13:30	6.18	14.00	03/08/11 15:06	13.07	40.00	
MPT-1343-SS6-0.5-2011-02-17	02/17/11 11:00	02/21/11 08:45	02/28/11 12:35	11.11	14.00	03/10/11 18:09	10.23	40.00	
MPT-1343-SS6-2.0-2011-02-17	02/17/11 11:05	02/21/11 08:45	02/28/11 12:35	11.10	14.00	03/10/11 19:26	10.29	40.00	
MPT-1343-SS6-4.0-2011-02-17	02/17/11 11:15	02/21/11 08:45	02/28/11 12:35	11.10	14.00	03/11/11 12:58	11.02	40.00	
MPT-1343-SS6-4.5-2011-02-17	02/17/11 11:20	02/21/11 08:45	02/28/11 12:35	11.09	14.00	03/11/11 13:24	11.03	40.00	

Data for FLPRO Forms

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05902
Instrument: GL-GCFID2
Calibration: 1059001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05902-CAL6	002F0201.D	02/25/11 12:08
Cal Standard	1B05902-CAL5	003F0301.D	02/25/11 12:50
Cal Standard	1B05902-CAL4	004F0401.D	02/25/11 13:32
Cal Standard	1B05902-CAL3	005F0501.D	02/25/11 14:15
Cal Standard	1B05902-CAL2	006F0601.D	02/25/11 14:57
Cal Standard	1B05902-CAL1	007F0701.D	02/25/11 15:39
Initial Cal Check	1B05902-ICV1	002F0201.D	02/27/11 14:40

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05907
Instrument: GL-GCFID2
Calibration: 1059001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05907-CCV1	003F0301.D	02/27/11 15:23
Blank	1B22028-BLK1	004F0101.D	02/27/11 16:54
LCS	1B22028-BS1	005F0201.D	02/27/11 17:36
MPT-1343-SS1-0.5-2011-02-16	1102216-01	006F0301.D	02/27/11 18:19
MPT-1343-SS1-0.5-2011-02-16	1B22028-MS1	007F0401.D	02/27/11 19:01
MPT-1343-SS1-0.5-2011-02-16	1B22028-MSD1	008F0501.D	02/27/11 19:43
MPT-1343-SS1-2.0-2011-02-16	1102216-02	009F0601.D	02/27/11 20:26
MPT-1343-SS1-4.0-2011-02-16	1102216-03	010F0701.D	02/27/11 21:08
MPT-1343-SS1-4.5-2011-02-16	1102216-04	011F0801.D	02/27/11 21:50
MPT-1343-SS2-0.5-2011-02-16	1102216-05	012F0901.D	02/27/11 22:33
MPT-1343-SS2-2.0-2011-02-16	1102216-06	013F1001.D	02/27/11 23:15
MPT-1343-SS2-4.0-2011-02-16	1102216-07	014F1101.D	02/27/11 23:58
MPT-1343-SS2-4.5-2011-02-16	1102216-08	015F1201.D	02/28/11 00:41
MPT-1343-SS3-0.5-2011-02-16	1102216-09	016F1301.D	02/28/11 01:24
MPT-1343-SS3-2.0-2011-02-16	1102216-10	017F1401.D	02/28/11 02:06
Calibration Check	1B05907-CCV2	018F1501.D	02/28/11 02:49
MPT-1343-SS3-4.0-2011-02-16	1102216-11	019F1601.D	02/28/11 03:31
MPT-1343-SS3-4.5-2011-02-16	1102216-12	020F1701.D	02/28/11 04:14
MPT-1343-SS4-0.5-2011-02-16	1102216-13	021F1801.D	02/28/11 04:56
MPT-1343-SS4-2.0-2011-02-16	1102216-14	022F1901.D	02/28/11 05:39
MPT-1343-SS4-4.0-2011-02-16	1102216-15	023F2001.D	02/28/11 06:21
MPT-1343-SS4-4.5-2011-02-16	1102216-16	024F2101.D	02/28/11 07:03
MPT-1343-SS5-0.5-2011-02-17	1102216-17	025F2201.D	02/28/11 07:46
MPT-1343-SS5-2.0-2011-02-17	1102216-18	026F2301.D	02/28/11 08:28
MPT-1343-SS5-4.0-2011-02-17	1102216-19	027F2401.D	02/28/11 09:10
MPT-1343-SS5-4.5-2011-02-17	1102216-20	028F2501.D	02/28/11 09:52
Calibration Check	1B05907-CCV3	029F2601.D	02/28/11 10:35

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06101
Instrument: GL-GCFID2
Calibration: 1059001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06101-CCV1	017F1701.D	03/01/11 00:00
Calibration Check	1C06101-CCV3	043F4301.D	03/01/11 18:24
Blank	1B26009-BLK1	044F4401.D	03/01/11 19:06
LCS	1B26009-BS1	045F4501.D	03/01/11 19:48
LCS Dup	1B26009-BSD1	046F4601.D	03/01/11 20:30
MPT-1343-SS6-0.5-2011-02-17	1102216-21	047F4701.D	03/01/11 21:12
Calibration Check	1C06101-CCV4	051F5101.D	03/02/11 00:01

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06112	Instrument:	GL-GCFID2
Calibration:	1059001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06112-CCV1	002F0201.D	03/02/11 10:06
MPT-1343-SS6-2.0-2011-02-17	1102216-22	003F0301.D	03/02/11 10:57
MPT-1343-SS6-4.0-2011-02-17	1102216-23	004F0401.D	03/02/11 11:39
MPT-1343-SS6-4.5-2011-02-17	1102216-24	005F0501.D	03/02/11 12:22
Calibration Check	1C06112-CCV2	006F0601.D	03/02/11 13:04

ANALYSIS DATA SHEET

MPT-1343-SS1-0.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-01	File ID:	006F0301.D
Sampled:	02/16/11 10:25	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 18:19
Solids:	92.65	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	177	11.5	23.0	46.0	N

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.482	3.226	92.6	50 - 150	
o-Terphenyl	3.482	2.946	84.6	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS1-2.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-02	File ID:	009F0601.D
Sampled:	02/16/11 10:30	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 20:26
Solids:	87.55	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	49.2	12.5	25.0	49.9	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.782	3.466	91.6	50 - 150	
o-Terphenyl	3.782	3.120	82.5	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS1-4.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-03	File ID:	010F0701.D
Sampled:	02/16/11 10:40	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 21:08
Solids:	82.62	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	50.9	13.2	26.5	52.9	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.008	4.012	100	50 - 150	
o-Terphenyl	4.008	3.440	85.8	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS1-4.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-04	File ID:	011F0801.D
Sampled:	02/16/11 10:50	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 21:50
Solids:	81.65	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	46.2	13.0	25.9	51.8	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.926	3.639	92.7	50 - 150	
o-Terphenyl	3.926	3.301	84.1	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS2-0.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-05	File ID:	012F0901.D
Sampled:	02/16/11 11:25	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 22:33
Solids:	92.22	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	111	11.4	22.8	45.6	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.453	2.361	68.4	50 - 150	
o-Terphenyl	3.453	2.297	66.5	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS2-2.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-06	File ID:	013F1001.D
Sampled:	02/16/11 11:30	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 23:15
Solids:	88.09	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	113	12.2	24.3	48.6	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.686	3.238	87.8	50 - 150	
o-Terphenyl	3.686	2.865	77.7	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS2-4.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-07	File ID:	014F1101.D
Sampled:	02/16/11 11:40	Prepared:	02/23/11 16:40	Analyzed:	02/27/11 23:58
Solids:	80.52	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	36.3	13.4	26.8	53.6	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.059	4.186	103	50 - 150	
o-Terphenyl	4.059	3.583	88.3	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS2-4.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-08	File ID:	015F1201.D
Sampled:	02/16/11 11:45	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 00:41
Solids:	71.91	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	33.7	15.1	30.2	60.4	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.575	4.426	96.7	50 - 150	
o-Terphenyl	4.575	3.896	85.2	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS3-0.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-09	File ID:	016F1301.D
Sampled:	02/16/11 14:00	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 01:24
Solids:	84.22	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	23.1	12.8	25.6	51.2	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.880	3.438	88.6	50 - 150	
o-Terphenyl	3.880	2.943	75.8	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS3-2.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-10	File ID:	017F1401.D
Sampled:	02/16/11 14:10	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 02:06
Solids:	87.69	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	28.2	12.1	24.1	48.2	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.655	3.825	105	50 - 150	
o-Terphenyl	3.655	3.288	90.0	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS3-4.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-11	File ID:	019F1601.D
Sampled:	02/16/11 14:20	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 03:31
Solids:	82.77	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	36.8	12.9	25.7	51.4	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.897	3.338	85.7	50 - 150	
o-Terphenyl	3.897	3.079	79.0	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS3-4.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-12	File ID:	020F1701.D
Sampled:	02/16/11 14:25	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 04:14
Solids:	84.35	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	36.3	12.7	25.4	50.8	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.849	3.540	92.0	50 - 150	
o-Terphenyl	3.849	3.139	81.6	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS4-0.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-13	File ID:	021F1801.D
Sampled:	02/16/11 15:15	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 04:56
Solids:	81.59	Preparation:	EXT_3546	Dilution:	5
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	815	98.5	197	394	D

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.980	4.405	111	50 - 150	
o-Terphenyl	3.980	4.151	104	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS4-2.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-14	File ID:	022F1901.D
Sampled:	02/16/11 15:25	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 05:39
Solids:	85.41	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	58.9	12.6	25.3	50.5	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.826	3.870	101	50 - 150	
o-Terphenyl	3.826	3.128	81.7	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS4-4.0-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-15	File ID:	023F2001.D
Sampled:	02/16/11 15:30	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 06:21
Solids:	88.92	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	26.5	12.2	24.4	48.8	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.700	3.703	100	50 - 150	
o-Terphenyl	3.700	3.228	87.3	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS4-4.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-16	File ID:	024F2101.D
Sampled:	02/16/11 15:35	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 07:03
Solids:	81.70	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	29.4	13.4	26.7	53.5	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.053	4.035	99.5	50 - 150	
o-Terphenyl	4.053	3.502	86.4	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS5-0.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-17	File ID:	025F2201.D
Sampled:	02/17/11 10:00	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 07:46
Solids:	85.96	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	137	12.5	25.1	50.2	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.802	2.811	74.0	50 - 150	
o-Terphenyl	3.802	2.886	75.9	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS5-2.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-18	File ID:	026F2301.D
Sampled:	02/17/11 10:05	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 08:28
Solids:	75.89	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	42.4	14.2	28.4	56.8	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.306	4.371	102	50 - 150	
o-Terphenyl	4.306	3.810	88.5	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-19	File ID:	027F2401.D
Sampled:	02/17/11 10:10	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 09:10
Solids:	85.53	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	85.5	12.9	25.7	51.4	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.897	3.855	98.9	50 - 150	
o-Terphenyl	3.897	3.426	87.9	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-20	File ID:	028F2501.D
Sampled:	02/17/11 10:15	Prepared:	02/23/11 16:40	Analyzed:	02/28/11 09:52
Solids:	85.20	Preparation:	EXT_3546	Dilution:	1
Batch:	1B22028	Sequence:	1B05907	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	168	12.7	25.5	51.0	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.861	3.734	96.7	50 - 150	
o-Terphenyl	3.861	3.210	83.2	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS6-0.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-21	File ID:	047F4701.D
Sampled:	02/17/11 11:00	Prepared:	02/28/11 12:30	Analyzed:	03/01/11 21:12
Solids:	86.86	Preparation:	EXT_3546	Dilution:	1
Batch:	1B26009	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	253	12.7	25.3	50.7	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.838	2.803	73.0	50 - 150	
o-Terphenyl	3.838	2.967	77.3	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS6-2.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-22	File ID:	003F0301.D
Sampled:	02/17/11 11:05	Prepared:	02/28/11 12:30	Analyzed:	03/02/11 10:57
Solids:	56.12	Preparation:	EXT_3546	Dilution:	10
Batch:	1B26009	Sequence:	1C06112	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	7420	190	379	759	D

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	5.748	33.25	578	50 - 150	*
o-Terphenyl	5.748	9.155	159	35 - 140	*

ANALYSIS DATA SHEET

MPT-1343-SS6-4.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-23	File ID:	004F0401.D
Sampled:	02/17/11 11:15	Prepared:	02/28/11 12:30	Analyzed:	03/02/11 11:39
Solids:	83.64	Preparation:	EXT_3546	Dilution:	20
Batch:	1B26009	Sequence:	1C06112	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	12400	253	506	1010	D

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.832	62.33	1630	50 - 150	*
o-Terphenyl	3.832	20.65	539	35 - 140	*

ANALYSIS DATA SHEET

MPT-1343-SS6-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-24	File ID:	005F0501.D
Sampled:	02/17/11 11:20	Prepared:	02/28/11 12:30	Analyzed:	03/02/11 12:22
Solids:	84.05	Preparation:	EXT_3546	Dilution:	20
Batch:	1B26009	Sequence:	1C06112	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	7890	257	513	1030	D

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.888	39.83	1020	50 - 150	*
o-Terphenyl	3.888	12.80	329	35 - 140	*

LCS / LCS DUPLICATE RECOVERY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B22028	Laboratory ID:	1B22028-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 2 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	213.3	192.1	90.0	50 - 140

LCS / LCS DUPLICATE RECOVERY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B26009	Laboratory ID:	1B26009-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 2 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	213.3	216.1	101	50 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	213.3	211.0	98.9	2.41	40	50 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FLPRO

MPT-1343-SS1-0.5-2011-02-16

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Matrix: Solid

Batch: 1B22028

% Solids: 92.65

SDG: CTOJM33_007

Project: NAS Mayport CTO JM33 2010

Source Sample Name: **1102216-01**

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Petroleum Range Organics	221.4	177.4	236.0	26.4	*	50 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	225.7	227.4	22.1	3.70	*	40	50 - 140

PREPARATION BATCH SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B22028 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS1-0.5-2011-02-16	1102216-01	02/23/11 16:40	15.50	2.00
MPT-1343-SS1-2.0-2011-02-16	1102216-02	02/23/11 16:40	15.10	2.00
MPT-1343-SS1-4.0-2011-02-16	1102216-03	02/23/11 16:40	15.10	2.00
MPT-1343-SS1-4.5-2011-02-16	1102216-04	02/23/11 16:40	15.60	2.00
MPT-1343-SS2-0.5-2011-02-16	1102216-05	02/23/11 16:40	15.70	2.00
MPT-1343-SS2-2.0-2011-02-16	1102216-06	02/23/11 16:40	15.40	2.00
MPT-1343-SS2-4.0-2011-02-16	1102216-07	02/23/11 16:40	15.30	2.00
MPT-1343-SS2-4.5-2011-02-16	1102216-08	02/23/11 16:40	15.20	2.00
MPT-1343-SS3-0.5-2011-02-16	1102216-09	02/23/11 16:40	15.30	2.00
MPT-1343-SS3-2.0-2011-02-16	1102216-10	02/23/11 16:40	15.60	2.00
MPT-1343-SS3-4.0-2011-02-16	1102216-11	02/23/11 16:40	15.50	2.00
MPT-1343-SS3-4.5-2011-02-16	1102216-12	02/23/11 16:40	15.40	2.00
MPT-1343-SS4-0.5-2011-02-16	1102216-13	02/23/11 16:40	15.40	3.00
MPT-1343-SS4-2.0-2011-02-16	1102216-14	02/23/11 16:40	15.30	2.00
MPT-1343-SS4-4.0-2011-02-16	1102216-15	02/23/11 16:40	15.20	2.00
MPT-1343-SS4-4.5-2011-02-16	1102216-16	02/23/11 16:40	15.10	2.00
MPT-1343-SS5-0.5-2011-02-17	1102216-17	02/23/11 16:40	15.30	2.00
MPT-1343-SS5-2.0-2011-02-17	1102216-18	02/23/11 16:40	15.30	2.00
MPT-1343-SS5-4.0-2011-02-17	1102216-19	02/23/11 16:40	15.00	2.00
MPT-1343-SS5-4.5-2011-02-17	1102216-20	02/23/11 16:40	15.20	2.00
Blank	1B22028-BLK1	02/23/11 16:40	15.00	2.00
LCS	1B22028-BS1	02/23/11 16:40	15.00	2.00
MPT-1343-SS1-0.5-2011-02-16	1B22028-MS1	02/23/11 16:40	15.60	2.00
MPT-1343-SS1-0.5-2011-02-16	1B22028-MSD1	02/23/11 16:40	15.30	2.00

PREPARATION BATCH SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B26009 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS6-0.5-2011-02-17	1102216-21	02/28/11 12:30	15.00	2.00
MPT-1343-SS6-2.0-2011-02-17	1102216-22	02/28/11 12:30	15.50	2.00
MPT-1343-SS6-4.0-2011-02-17	1102216-23	02/28/11 12:30	15.60	2.00
MPT-1343-SS6-4.5-2011-02-17	1102216-24	02/28/11 12:30	15.30	2.00
Blank	1B26009-BLK1	02/28/11 12:30	15.00	2.00
LCS	1B26009-BS1	02/28/11 12:30	15.00	2.00
LCS Dup	1B26009-BSD1	02/28/11 12:30	15.00	2.00

INITIAL CALIBRATION STANDARDS

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0728	FLPRO CAL6 85ppm	1B05902-CAL6	002F0201.D	02/25/11 12:08
11B0727	FLPRO CAL5 850ppm	1B05902-CAL5	003F0301.D	02/25/11 12:50
11B0726	FLPRO CAL4 2550ppm	1B05902-CAL4	004F0401.D	02/25/11 13:32
11B0725	FLPRO CAL3 4250ppm	1B05902-CAL3	005F0501.D	02/25/11 14:15
11B0724	FLPRO CAL2 5950ppm	1B05902-CAL2	006F0601.D	02/25/11 14:57
11B0723	FLPRO CAL1 8500ppm	1B05902-CAL1	007F0701.D	02/25/11 15:39

INITIAL CALIBRATION DATA

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Petroleum Range Organics	85	1001.176	850	1377.509	2550	1446.599	4250	1488.03	5950	1412.965	8500	1418.286
2-Fluorobiphenyl	5	1558.6	10	1409.6	15	1829.333	25	2032.88	35	2127.686	50	2181.72
o-Terphenyl	5	2387.8	10	2409.2	15	2548.533	25	2526	35	2565.572	50	2515.5

INITIAL CALIBRATION DATA (Continued)

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Petroleum Range Organics	1357.428	13.14176	2.64	1.458778E-02			20	
2-Fluorobiphenyl	1856.637	17.02584	10.99367	0.4529372			20	
o-Terphenyl	2492.101	3.004445	16.57033	8.740256E-02			20	

INITIAL CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05902	Injection Date:	02/27/11
Lab Sample ID:	1B05902-ICV1	Injection Time:	14:40

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Petroleum Range Organics	A	4000	4130	1357.428	1401.388		3.2	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	003F0301.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05907	Injection Date:	02/27/11
Lab Sample ID:	1B05907-CCV1	Injection Time:	15:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4340	1357.428	1386.336		2.1	25
2-Fluorobiphenyl	A	25.00	23.30	1856.637	1730.2		-6.8	25
o-Terphenyl	A	25.00	20.23	2492.101	2017		-19.1	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	018F1501.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05907	Injection Date:	02/28/11
Lab Sample ID:	1B05907-CCV2	Injection Time:	02:49

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	3993	1357.428	1275.434		-6.0	25
2-Fluorobiphenyl	A	25.00	22.80	1856.637	1693		-8.8	25
o-Terphenyl	A	25.00	19.95	2492.101	1988.64		-20.2	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	029F2601.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05907	Injection Date:	02/28/11
Lab Sample ID:	1B05907-CCV3	Injection Time:	10:35

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4148	1357.428	1324.964		-2.4	25
2-Fluorobiphenyl	A	25.00	22.38	1856.637	1661.76		-10.5	25
o-Terphenyl	A	25.00	20.44	2492.101	2037.16		-18.3	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	017F1701.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/01/11
Lab Sample ID:	1C06101-CCV1	Injection Time:	00:00

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4891	1357.428	1562.059		15.1	25
2-Fluorobiphenyl	A	25.00	24.16	1856.637	1794.16		-3.4	25
o-Terphenyl	A	25.00	21.75	2492.101	2168.2		-13.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	043F4301.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/01/11
Lab Sample ID:	1C06101-CCV3	Injection Time:	18:24

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4973	1357.428	1588.358		17.0	25
2-Fluorobiphenyl	A	25.00	24.19	1856.637	1796.64		-3.2	25
o-Terphenyl	A	25.00	22.10	2492.101	2203.08		-11.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	051F5101.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/02/11
Lab Sample ID:	1C06101-CCV4	Injection Time:	00:01

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4739	1357.428	1513.488		11.5	25
2-Fluorobiphenyl	A	25.00	22.37	1856.637	1661.64		-10.5	25
o-Terphenyl	A	25.00	21.89	2492.101	2181.96		-12.4	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06112	Injection Date:	03/02/11
Lab Sample ID:	1C06112-CCV1	Injection Time:	10:06

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4733	1357.428	1511.828		11.4	25
2-Fluorobiphenyl	A	25.00	22.69	1856.637	1685.32		-9.2	25
o-Terphenyl	A	25.00	21.77	2492.101	2169.88		-12.9	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	006F0601.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06112	Injection Date:	03/02/11
Lab Sample ID:	1C06112-CCV2	Injection Time:	13:04

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	5064	1357.428	1617.417		19.2	25
2-Fluorobiphenyl	A	25.00	21.22	1856.637	1576.16		-15.1	25
o-Terphenyl	A	25.00	21.67	2492.101	2160.56		-13.3	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05907
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05907-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 02/27/11 15:23		
2-Fluorobiphenyl	25.00	93.2	75 - 125	10.973	10.973	0.0000	+/-0.050	
o-Terphenyl	25.00	80.9	75 - 125	16.57	16.57	0.0000	+/-0.050	
Blank (1B22028-BLK1) mg/Kg wet				Lab File ID: 004F0101.D		Analyzed: 02/27/11 16:54		
2-Fluorobiphenyl	3.333	90.2	50 - 150	11.203	10.973	0.2300	+/-0.050	*
o-Terphenyl	3.333	81.1	35 - 140	16.66	16.57	0.0900	+/-0.050	*
LCS (1B22028-BS1) mg/Kg wet				Lab File ID: 005F0201.D		Analyzed: 02/27/11 17:36		
2-Fluorobiphenyl	3.333	88.7	50 - 150	10.986	10.973	0.0130	+/-0.050	
o-Terphenyl	3.333	80.2	35 - 140	16.58	16.57	0.0100	+/-0.050	
MPT-1343-SS1-0.5-2011-02-16 (1102216-01) mg/Kg dry				Lab File ID: 006F0301.D		Analyzed: 02/27/11 18:19		
2-Fluorobiphenyl	3.482	92.6	50 - 150	11.03	10.973	0.0570	+/-0.050	*
o-Terphenyl	3.482	84.6	35 - 140	16.566	16.57	-0.0040	+/-0.050	
Matrix Spike (1B22028-MS1) mg/Kg dry				Lab File ID: 007F0401.D		Analyzed: 02/27/11 19:01		
2-Fluorobiphenyl	3.459	82.4	50 - 150	10.98	10.973	0.0070	+/-0.050	
o-Terphenyl	3.459	77.7	35 - 140	16.57	16.57	0.0000	+/-0.050	
Matrix Spike Dup (1B22028-MSD1) mg/Kg dry				Lab File ID: 008F0501.D		Analyzed: 02/27/11 19:43		
2-Fluorobiphenyl	3.527	77.9	50 - 150	10.983	10.973	0.0100	+/-0.050	
o-Terphenyl	3.527	74.7	35 - 140	16.573	16.57	0.0030	+/-0.050	
MPT-1343-SS1-2.0-2011-02-16 (1102216-02) mg/Kg dry				Lab File ID: 009F0601.D		Analyzed: 02/27/11 20:26		
2-Fluorobiphenyl	3.782	91.6	50 - 150	11.076	10.973	0.1030	+/-0.050	*
o-Terphenyl	3.782	82.5	35 - 140	16.593	16.57	0.0230	+/-0.050	
MPT-1343-SS1-4.0-2011-02-16 (1102216-03) mg/Kg dry				Lab File ID: 010F0701.D		Analyzed: 02/27/11 21:08		
2-Fluorobiphenyl	4.008	100	50 - 150	11.086	10.973	0.1130	+/-0.050	*
o-Terphenyl	4.008	85.8	35 - 140	16.6	16.57	0.0300	+/-0.050	
MPT-1343-SS1-4.5-2011-02-16 (1102216-04) mg/Kg dry				Lab File ID: 011F0801.D		Analyzed: 02/27/11 21:50		
2-Fluorobiphenyl	3.926	92.7	50 - 150	11.113	10.973	0.1400	+/-0.050	*
o-Terphenyl	3.926	84.1	35 - 140	16.61	16.57	0.0400	+/-0.050	
MPT-1343-SS2-0.5-2011-02-16 (1102216-05) mg/Kg dry				Lab File ID: 012F0901.D		Analyzed: 02/27/11 22:33		
2-Fluorobiphenyl	3.453	68.4	50 - 150	11.14	10.973	0.1670	+/-0.050	*
o-Terphenyl	3.453	66.5	35 - 140	16.58	16.57	0.0100	+/-0.050	
MPT-1343-SS2-2.0-2011-02-16 (1102216-06) mg/Kg dry				Lab File ID: 013F1001.D		Analyzed: 02/27/11 23:15		
2-Fluorobiphenyl	3.686	87.8	50 - 150	11.026	10.973	0.0530	+/-0.050	*
o-Terphenyl	3.686	77.7	35 - 140	16.573	16.57	0.0030	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05907
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS2-4.0-2011-02-16 (1102216-07) mg/Kg dry				Lab File ID: 014F1101.D		Analyzed: 02/27/11 23:58		
2-Fluorobiphenyl	4.059	103	50 - 150	11.123	10.973	0.1500	+/-0.050	*
o-Terphenyl	4.059	88.3	35 - 140	16.6	16.57	0.0300	+/-0.050	
MPT-1343-SS2-4.5-2011-02-16 (1102216-08) mg/Kg dry				Lab File ID: 015F1201.D		Analyzed: 02/28/11 00:41		
2-Fluorobiphenyl	4.575	96.7	50 - 150	11.153	10.973	0.1800	+/-0.050	*
o-Terphenyl	4.575	85.2	35 - 140	16.616	16.57	0.0460	+/-0.050	
MPT-1343-SS3-0.5-2011-02-16 (1102216-09) mg/Kg dry				Lab File ID: 016F1301.D		Analyzed: 02/28/11 01:24		
2-Fluorobiphenyl	3.880	88.6	50 - 150	11.19	10.973	0.2170	+/-0.050	*
o-Terphenyl	3.880	75.8	35 - 140	16.62	16.57	0.0500	+/-0.050	
MPT-1343-SS3-2.0-2011-02-16 (1102216-10) mg/Kg dry				Lab File ID: 017F1401.D		Analyzed: 02/28/11 02:06		
2-Fluorobiphenyl	3.655	105	50 - 150	11.126	10.973	0.1530	+/-0.050	*
o-Terphenyl	3.655	90.0	35 - 140	16.606	16.57	0.0360	+/-0.050	
Calibration Check (1B05907-CCV2) mg/L				Lab File ID: 018F1501.D		Analyzed: 02/28/11 02:49		
2-Fluorobiphenyl	25.00	91.2	75 - 125	10.986	10.973	0.0130	+/-0.050	
o-Terphenyl	25.00	79.8	75 - 125	16.57	16.57	0.0000	+/-0.050	
MPT-1343-SS3-4.0-2011-02-16 (1102216-11) mg/Kg dry				Lab File ID: 019F1601.D		Analyzed: 02/28/11 03:31		
2-Fluorobiphenyl	3.897	85.7	50 - 150	11.203	10.973	0.2300	+/-0.050	*
o-Terphenyl	3.897	79.0	35 - 140	16.63	16.57	0.0600	+/-0.050	*
MPT-1343-SS3-4.5-2011-02-16 (1102216-12) mg/Kg dry				Lab File ID: 020F1701.D		Analyzed: 02/28/11 04:14		
2-Fluorobiphenyl	3.849	92.0	50 - 150	11.216	10.973	0.2430	+/-0.050	*
o-Terphenyl	3.849	81.6	35 - 140	16.63	16.57	0.0600	+/-0.050	*
MPT-1343-SS4-0.5-2011-02-16 (1102216-13) mg/Kg dry				Lab File ID: 021F1801.D		Analyzed: 02/28/11 04:56		
2-Fluorobiphenyl	3.980	111	50 - 150	11.24	10.973	0.2670	+/-0.050	*
o-Terphenyl	3.980	104	35 - 140	16.59	16.57	0.0200	+/-0.050	
MPT-1343-SS4-2.0-2011-02-16 (1102216-14) mg/Kg dry				Lab File ID: 022F1901.D		Analyzed: 02/28/11 05:39		
2-Fluorobiphenyl	3.826	101	50 - 150	11.163	10.973	0.1900	+/-0.050	*
o-Terphenyl	3.826	81.7	35 - 140	16.6	16.57	0.0300	+/-0.050	
MPT-1343-SS4-4.0-2011-02-16 (1102216-15) mg/Kg dry				Lab File ID: 023F2001.D		Analyzed: 02/28/11 06:21		
2-Fluorobiphenyl	3.700	100	50 - 150	11.23	10.973	0.2570	+/-0.050	*
o-Terphenyl	3.700	87.3	35 - 140	16.636	16.57	0.0660	+/-0.050	*
MPT-1343-SS4-4.5-2011-02-16 (1102216-16) mg/Kg dry				Lab File ID: 024F2101.D		Analyzed: 02/28/11 07:03		
2-Fluorobiphenyl	4.053	99.5	50 - 150	11.213	10.973	0.2400	+/-0.050	*
o-Terphenyl	4.053	86.4	35 - 140	16.626	16.57	0.0560	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05907
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS5-0.5-2011-02-17 (1102216-17) mg/Kg dry				Lab File ID: 025F2201.D		Analyzed: 02/28/11 07:46		
2-Fluorobiphenyl	3.802	74.0	50 - 150	11.076	10.973	0.1030	+/-0.050	*
o-Terphenyl	3.802	75.9	35 - 140	16.57	16.57	0.0000	+/-0.050	
MPT-1343-SS5-2.0-2011-02-17 (1102216-18) mg/Kg dry				Lab File ID: 026F2301.D		Analyzed: 02/28/11 08:28		
2-Fluorobiphenyl	4.306	102	50 - 150	11.16	10.973	0.1870	+/-0.050	*
o-Terphenyl	4.306	88.5	35 - 140	16.603	16.57	0.0330	+/-0.050	
MPT-1343-SS5-4.0-2011-02-17 (1102216-19) mg/Kg dry				Lab File ID: 027F2401.D		Analyzed: 02/28/11 09:10		
2-Fluorobiphenyl	3.897	98.9	50 - 150	11.106	10.973	0.1330	+/-0.050	*
o-Terphenyl	3.897	87.9	35 - 140	16.586	16.57	0.0160	+/-0.050	
MPT-1343-SS5-4.5-2011-02-17 (1102216-20) mg/Kg dry				Lab File ID: 028F2501.D		Analyzed: 02/28/11 09:52		
2-Fluorobiphenyl	3.861	96.7	50 - 150	11.063	10.973	0.0900	+/-0.050	*
o-Terphenyl	3.861	83.2	35 - 140	16.573	16.57	0.0030	+/-0.050	
Calibration Check (1B05907-CCV3) mg/L				Lab File ID: 029F2601.D		Analyzed: 02/28/11 10:35		
2-Fluorobiphenyl	25.00	89.5	75 - 125	11.02	10.973	0.0470	+/-0.050	
o-Terphenyl	25.00	81.8	75 - 125	16.583	16.57	0.0130	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06101
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06101-CCV1) mg/L				Lab File ID: 017F1701.D		Analyzed: 03/01/11 00:00		
2-Fluorobiphenyl	25.00	96.6	75 - 125	10.793	10.793	0.0000	+/-0.050	
o-Terphenyl	25.00	87.0	75 - 125	16.423	16.423	0.0000	+/-0.050	
Calibration Check (1C06101-CCV3) mg/L				Lab File ID: 043F4301.D		Analyzed: 03/01/11 18:24		
2-Fluorobiphenyl	25.00	96.8	75 - 125	10.783	10.793	-0.0100	+/-0.050	
o-Terphenyl	25.00	88.4	75 - 125	16.42	16.423	-0.0030	+/-0.050	
Blank (1B26009-BLK1) mg/Kg wet				Lab File ID: 044F4401.D		Analyzed: 03/01/11 19:06		
2-Fluorobiphenyl	3.333	78.2	50 - 150	10.94	10.793	0.1470	+/-0.050	*
o-Terphenyl	3.333	77.3	35 - 140	16.466	16.423	0.0430	+/-0.050	
LCS (1B26009-BS1) mg/Kg wet				Lab File ID: 045F4501.D		Analyzed: 03/01/11 19:48		
2-Fluorobiphenyl	3.333	76.6	50 - 150	10.8	10.793	0.0070	+/-0.050	
o-Terphenyl	3.333	81.7	35 - 140	16.423	16.423	0.0000	+/-0.050	
LCS Dup (1B26009-BSD1) mg/Kg wet				Lab File ID: 046F4601.D		Analyzed: 03/01/11 20:30		
2-Fluorobiphenyl	3.333	77.0	50 - 150	10.806	10.793	0.0130	+/-0.050	
o-Terphenyl	3.333	80.8	35 - 140	16.426	16.423	0.0030	+/-0.050	
MPT-1343-SS6-0.5-2011-02-17 (1102216-21) mg/Kg dry				Lab File ID: 047F4701.D		Analyzed: 03/01/11 21:12		
2-Fluorobiphenyl	3.838	73.0	50 - 150	10.826	10.793	0.0330	+/-0.050	
o-Terphenyl	3.838	77.3	35 - 140	16.423	16.423	0.0000	+/-0.050	
Calibration Check (1C06101-CCV4) mg/L				Lab File ID: 051F5101.D		Analyzed: 03/02/11 00:01		
2-Fluorobiphenyl	25.00	89.5	75 - 125	10.78	10.793	-0.0130	+/-0.050	
o-Terphenyl	25.00	87.6	75 - 125	16.42	16.423	-0.0030	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06112
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06112-CCV1) mg/L				Lab File ID: 002F0201.D		Analyzed: 03/02/11 10:06		
2-Fluorobiphenyl	25.00	90.8	75 - 125	10.796	10.796	0.0000	+/-0.050	
o-Terphenyl	25.00	87.1	75 - 125	16.42	16.42	0.0000	+/-0.050	
MPT-1343-SS6-2.0-2011-02-17 (1102216-22) mg/Kg dry				Lab File ID: 003F0301.D		Analyzed: 03/02/11 10:57		
2-Fluorobiphenyl	5.748	578	50 - 150	10.806	10.796	0.0100	+/-0.050	*
o-Terphenyl	5.748	159	35 - 140	16.406	16.42	-0.0140	+/-0.050	*
MPT-1343-SS6-4.0-2011-02-17 (1102216-23) mg/Kg dry				Lab File ID: 004F0401.D		Analyzed: 03/02/11 11:39		
2-Fluorobiphenyl	3.832	1630	50 - 150	10.8	10.796	0.0040	+/-0.050	*
o-Terphenyl	3.832	539	35 - 140	16.226	16.42	-0.1940	+/-0.050	*
MPT-1343-SS6-4.5-2011-02-17 (1102216-24) mg/Kg dry				Lab File ID: 005F0501.D		Analyzed: 03/02/11 12:22		
2-Fluorobiphenyl	3.888	1020	50 - 150	10.796	10.796	0.0000	+/-0.050	*
o-Terphenyl	3.888	329	35 - 140	16.226	16.42	-0.1940	+/-0.050	*
Calibration Check (1C06112-CCV2) mg/L				Lab File ID: 006F0601.D		Analyzed: 03/02/11 13:04		
2-Fluorobiphenyl	25.00	84.9	75 - 125	10.786	10.796	-0.0100	+/-0.050	
o-Terphenyl	25.00	86.7	75 - 125	16.41	16.42	-0.0100	+/-0.050	

HOLDING TIME SUMMARY
FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS1-0.5-2011-02-16	02/16/11 10:25	02/21/11 08:45	02/23/11 16:40	7.30	14.00	02/27/11 18:19	4.07	40.00	
MPT-1343-SS1-2.0-2011-02-16	02/16/11 10:30	02/21/11 08:45	02/23/11 16:40	7.30	14.00	02/27/11 20:26	4.16	40.00	
MPT-1343-SS1-4.0-2011-02-16	02/16/11 10:40	02/21/11 08:45	02/23/11 16:40	7.29	14.00	02/27/11 21:08	4.19	40.00	
MPT-1343-SS1-4.5-2011-02-16	02/16/11 10:50	02/21/11 08:45	02/23/11 16:40	7.28	14.00	02/27/11 21:50	4.22	40.00	
MPT-1343-SS2-0.5-2011-02-16	02/16/11 11:25	02/21/11 08:45	02/23/11 16:40	7.26	14.00	02/27/11 22:33	4.25	40.00	
MPT-1343-SS2-2.0-2011-02-16	02/16/11 11:30	02/21/11 08:45	02/23/11 16:40	7.26	14.00	02/27/11 23:15	4.27	40.00	
MPT-1343-SS2-4.0-2011-02-16	02/16/11 11:40	02/21/11 08:45	02/23/11 16:40	7.25	14.00	02/27/11 23:58	4.30	40.00	
MPT-1343-SS2-4.5-2011-02-16	02/16/11 11:45	02/21/11 08:45	02/23/11 16:40	7.25	14.00	02/28/11 00:41	4.33	40.00	
MPT-1343-SS3-0.5-2011-02-16	02/16/11 14:00	02/21/11 08:45	02/23/11 16:40	7.15	14.00	02/28/11 01:24	4.36	40.00	
MPT-1343-SS3-2.0-2011-02-16	02/16/11 14:10	02/21/11 08:45	02/23/11 16:40	7.15	14.00	02/28/11 02:06	4.39	40.00	
MPT-1343-SS3-4.0-2011-02-16	02/16/11 14:20	02/21/11 08:45	02/23/11 16:40	7.14	14.00	02/28/11 03:31	4.45	40.00	
MPT-1343-SS3-4.5-2011-02-16	02/16/11 14:25	02/21/11 08:45	02/23/11 16:40	7.14	14.00	02/28/11 04:14	4.48	40.00	
MPT-1343-SS4-0.5-2011-02-16	02/16/11 15:15	02/21/11 08:45	02/23/11 16:40	7.10	14.00	02/28/11 04:56	4.51	40.00	
MPT-1343-SS4-2.0-2011-02-16	02/16/11 15:25	02/21/11 08:45	02/23/11 16:40	7.09	14.00	02/28/11 05:39	4.54	40.00	
MPT-1343-SS4-4.0-2011-02-16	02/16/11 15:30	02/21/11 08:45	02/23/11 16:40	7.09	14.00	02/28/11 06:21	4.57	40.00	
MPT-1343-SS4-4.5-2011-02-16	02/16/11 15:35	02/21/11 08:45	02/23/11 16:40	7.09	14.00	02/28/11 07:03	4.60	40.00	
MPT-1343-SS5-0.5-2011-02-17	02/17/11 10:00	02/21/11 08:45	02/23/11 16:40	6.32	14.00	02/28/11 07:46	4.63	40.00	
MPT-1343-SS5-2.0-2011-02-17	02/17/11 10:05	02/21/11 08:45	02/23/11 16:40	6.32	14.00	02/28/11 08:28	4.66	40.00	
MPT-1343-SS5-4.0-2011-02-17	02/17/11 10:10	02/21/11 08:45	02/23/11 16:40	6.31	14.00	02/28/11 09:10	4.69	40.00	
MPT-1343-SS5-4.5-2011-02-17	02/17/11 10:15	02/21/11 08:45	02/23/11 16:40	6.31	14.00	02/28/11 09:52	4.72	40.00	
MPT-1343-SS6-0.5-2011-02-17	02/17/11 11:00	02/21/11 08:45	02/28/11 12:30	11.10	14.00	03/01/11 21:12	1.36	40.00	
MPT-1343-SS6-2.0-2011-02-17	02/17/11 11:05	02/21/11 08:45	02/28/11 12:30	11.10	14.00	03/02/11 10:57	1.94	40.00	
MPT-1343-SS6-4.0-2011-02-17	02/17/11 11:15	02/21/11 08:45	02/28/11 12:30	11.09	14.00	03/02/11 11:39	1.96	40.00	
MPT-1343-SS6-4.5-2011-02-17	02/17/11 11:20	02/21/11 08:45	02/28/11 12:30	11.09	14.00	03/02/11 12:22	1.99	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22028-BLK1 File ID: 004F0101.D

Sampled: Prepared: Analyzed: 02/27/11 16:54

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22028 Sequence: 1B05907 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics		11.0	22.0	44.0	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	3.007	90.2	50 - 150	
o-Terphenyl	3.333	2.704	81.1	35 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22028-BS1 File ID: 005F0201.D

Sampled: Prepared: Analyzed: 02/27/11 17:36

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22028 Sequence: 1B05907 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics	192.1	11.0	22.0	44.0	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.957	88.7	50 - 150	
o-Terphenyl	3.333	2.673	80.2	35 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22028-MS1 File ID: 007F0401.D

Sampled: Prepared: Analyzed: 02/27/11 19:01

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22028 Sequence: 1B05907 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
	Petroleum Range Organics	236.0	11.4	22.8	45.7	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.459	2.849	82.4	50 - 150	
o-Terphenyl	3.459	2.688	77.7	35 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B22028-MSD1 File ID: 008F0501.D

Sampled: Prepared: Analyzed: 02/27/11 19:43

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B22028 Sequence: 1B05907 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
	Petroleum Range Organics	227.4	11.6	23.3	46.6	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.527	2.748	77.9	50 - 150	
o-Terphenyl	3.527	2.636	74.7	35 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26009-BLK1 File ID: 044F4401.D

Sampled: Prepared: Analyzed: 03/01/11 19:06

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B26009 Sequence: 1C06101 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics		11.0	22.0	44.0	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.607	78.2	50 - 150	
o-Terphenyl	3.333	2.577	77.3	35 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26009-BS1 File ID: 045F4501.D

Sampled: Prepared: Analyzed: 03/01/11 19:48

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B26009 Sequence: 1C06101 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics	216.1	11.0	22.0	44.0	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.555	76.6	50 - 150	
o-Terphenyl	3.333	2.722	81.7	35 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26009-BSD1 File ID: 046F4601.D

Sampled: Prepared: Analyzed: 03/01/11 20:30

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B26009 Sequence: 1C06101 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics	211.0	11.0	22.0	44.0	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.566	77.0	50 - 150	
o-Terphenyl	3.333	2.693	80.8	35 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Instrument: GL-GCFID2

Analyte	MDL	MRL	Units	Method
Petroleum Range Organics	11.0	44.0	mg/Kg	FLPRO

Data for FLPRO Forms

ANALYSIS SEQUENCE SUMMARY

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05902-CAL6	002F0201.D	02/25/11 12:08
Cal Standard	1B05902-CAL5	003F0301.D	02/25/11 12:50
Cal Standard	1B05902-CAL4	004F0401.D	02/25/11 13:32
Cal Standard	1B05902-CAL3	005F0501.D	02/25/11 14:15
Cal Standard	1B05902-CAL2	006F0601.D	02/25/11 14:57
Cal Standard	1B05902-CAL1	007F0701.D	02/25/11 15:39
Initial Cal Check	1B05902-ICV1	002F0201.D	02/27/11 14:40

ANALYSIS SEQUENCE SUMMARY

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C07605	Instrument:	GL-GCFID2
Calibration:	1059001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C07605-CCV1	002F0201.D	03/16/11 17:52
Blank	1C11019-BLK1	008F0801.D	03/16/11 22:09
LCS	1C11019-BS1	009F0901.D	03/16/11 22:51
MPT-1343-SS6-4.5-2011-02-17	1102216-24	010F1001.D	03/16/11 23:33
Calibration Check	1C07605-CCV2	014F1401.D	03/17/11 02:22

ANALYSIS DATA SHEET

MPT-1343-SS6-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-24	File ID:	010F1001.D
Sampled:	02/17/11 11:20	Prepared:	03/11/11 18:00	Analyzed:	03/16/11 23:33
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11019	Sequence:	1C07605	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	1.28	0.157	0.315	0.630	H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.01860	40.2	50 - 150	*H2
o-Terphenyl	0.04630	0.01208	26.1	82 - 142	*H2

LCS / LCS DUPLICATE RECOVERY

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Water		
Batch:	1C11019	Laboratory ID:	1C11019-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 2 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	3.200	3.151	98.5	55 - 118

PREPARATION BATCH SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1C11019 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS6-4.5-2011-02-17	1102216-24	03/11/11 18:00	1,080.00	2.00
Blank	1C11019-BLK1	03/11/11 18:00	1,000.00	2.00
LCS	1C11019-BS1	03/11/11 18:00	1,000.00	2.00

INITIAL CALIBRATION STANDARDS

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0728	FLPRO CAL6 85ppm	1B05902-CAL6	002F0201.D	02/25/11 12:08
11B0727	FLPRO CAL5 850ppm	1B05902-CAL5	003F0301.D	02/25/11 12:50
11B0726	FLPRO CAL4 2550ppm	1B05902-CAL4	004F0401.D	02/25/11 13:32
11B0725	FLPRO CAL3 4250ppm	1B05902-CAL3	005F0501.D	02/25/11 14:15
11B0724	FLPRO CAL2 5950ppm	1B05902-CAL2	006F0601.D	02/25/11 14:57
11B0723	FLPRO CAL1 8500ppm	1B05902-CAL1	007F0701.D	02/25/11 15:39

INITIAL CALIBRATION DATA

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Petroleum Range Organics	85	1001.176	850	1377.509	2550	1446.599	4250	1488.03	5950	1412.965	8500	1418.286
2-Fluorobiphenyl	5	1558.6	10	1409.6	15	1829.333	25	2032.88	35	2127.686	50	2181.72
o-Terphenyl	5	2387.8	10	2409.2	15	2548.533	25	2526	35	2565.572	50	2515.5

INITIAL CALIBRATION DATA (Continued)

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Petroleum Range Organics	1357.428	13.14176	2.64	1.458778E-02			20	
2-Fluorobiphenyl	1856.637	17.02584	10.99367	0.4529372			20	
o-Terphenyl	2492.101	3.004445	16.57033	8.740256E-02			20	

INITIAL CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05902	Injection Date:	02/27/11
Lab Sample ID:	1B05902-ICV1	Injection Time:	14:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Petroleum Range Organics	A	4000	4130	1357.428	1401.388		3.2	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1C07605	Injection Date:	03/16/11
Lab Sample ID:	1C07605-CCV1	Injection Time:	17:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4964	1357.428	1585.465		16.8	25
2-Fluorobiphenyl	A	25.00	24.79	1856.637	1841.04		-0.8	25
o-Terphenyl	A	25.00	21.10	2492.101	2103.24		-15.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	014F1401.D	Calibration Date:	02/25/11 12:08
Sequence:	1C07605	Injection Date:	03/17/11
Lab Sample ID:	1C07605-CCV2	Injection Time:	02:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	5133	1357.428	1639.452		20.8	25
2-Fluorobiphenyl	A	25.00	24.72	1856.637	1835.56		-1.1	25
o-Terphenyl	A	25.00	20.48	2492.101	2041.92		-18.1	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07605
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07605-CCV1) ug/mL				Lab File ID: 002F0201.D		Analyzed: 03/16/11 17:52		
2-Fluorobiphenyl	25.00	99.2	75 - 125	11.15	11.15	0.0000	+/-0.050	
o-Terphenyl	25.00	84.4	75 - 125	16.69	16.69	0.0000	+/-0.050	
Blank (1C11019-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 03/16/11 22:09		
2-Fluorobiphenyl	0.05000	79.3	50 - 150	11.173	11.15	0.0230	+/-0.050	
o-Terphenyl	0.05000	82.9	82 - 142	16.69	16.69	0.0000	+/-0.050	
LCS (1C11019-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 03/16/11 22:51		
2-Fluorobiphenyl	0.05000	78.6	50 - 150	11.156	11.15	0.0060	+/-0.050	
o-Terphenyl	0.05000	82.2	82 - 142	16.686	16.69	-0.0040	+/-0.050	
MPT-1343-SS6-4.5-2011-02-17 (1102216-24) mg/L				Lab File ID: 010F1001.D		Analyzed: 03/16/11 23:33		
2-Fluorobiphenyl	0.04630	40.2	50 - 150	11.136	11.15	-0.0140	+/-0.050	*
o-Terphenyl	0.04630	26.1	82 - 142	16.686	16.69	-0.0040	+/-0.050	*
Calibration Check (1C07605-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 03/17/11 02:22		
2-Fluorobiphenyl	25.00	98.9	75 - 125	11.146	11.15	-0.0040	+/-0.050	
o-Terphenyl	25.00	81.9	75 - 125	16.683	16.69	-0.0070	+/-0.050	

HOLDING TIME SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS6-4.5-2011-02-17	02/17/11 11:20	02/21/11 08:45	03/11/11 18:00	22.32	14.00	03/16/11 23:33	5.23	40.00	*

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C11019-BLK1 File ID: 008F0801.D

Sampled: Prepared: Analyzed: 03/16/11 22:09

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C11019 Sequence: 1C07605 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.170	0.340	0.680	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03966	79.3	50 - 150	
o-Terphenyl	0.05000	0.04143	82.9	82 - 142	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C11019-BS1 File ID: 009F0901.D

Sampled: Prepared: Analyzed: 03/16/11 22:51

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C11019 Sequence: 1C07605 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	3.151	0.170	0.340	0.680	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03931	78.6	50 - 150	
o-Terphenyl	0.05000	0.04112	82.2	82 - 142	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Mayport CTO JM33 2010

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Petroleum Range Organics	0.170	0.680	mg/L	SW1312_FLPRO

Data for MAEPH Forms

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06210	Instrument:	GL-GCFID
Calibration:	1066004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06210-CAL6	003B0401.D	03/02/11 12:08
Cal Standard	1C06210-CAL5	004B0501.D	03/02/11 12:59
Cal Standard	1C06210-CAL4	005B0601.D	03/02/11 13:51
Cal Standard	1C06210-CAL3	006B0701.D	03/02/11 14:43
Cal Standard	1C06210-CAL2	007B0801.D	03/02/11 15:34
Cal Standard	1C06210-CAL1	008B0901.D	03/02/11 16:26
Initial Cal Check	1C06210-ICV1	009B1001.D	03/02/11 17:17

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06612
Instrument: GL-GCFID
Calibration: 1066004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06612-CAL6	002B0201.D	03/04/11 11:21
Cal Standard	1C06612-CAL5	003B0301.D	03/04/11 12:12
Cal Standard	1C06612-CAL4	004B0401.D	03/04/11 13:04
Cal Standard	1C06612-CAL3	005B0501.D	03/04/11 13:56
Cal Standard	1C06612-CAL2	006B0601.D	03/04/11 14:47
Cal Standard	1C06612-CAL1	007B0701.D	03/04/11 15:39
Initial Cal Check	1C06612-ICV1	008B0801.D	03/04/11 16:31

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06613
Instrument: GL-GCFID
Calibration: 1066004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06613-CCV1	009B0901.D	03/04/11 17:22
Blank	1B25008-BLK1	036B3601.D	03/04/11 18:14
Blank	1B25008-BLK1	010B1001.D	03/04/11 18:14
LCS	1B25008-BS1	037B3701.D	03/04/11 19:06
LCS	1B25008-BS1	011B1101.D	03/04/11 19:06
LCS Dup	1B25008-BSD1	038B3801.D	03/04/11 19:57
LCS Dup	1B25008-BSD1	012B1201.D	03/04/11 19:57
MPT-1343-SS5-4.5-2011-02-17	1102216-20	042B4201.D	03/04/11 23:23
MPT-1343-SS5-4.5-2011-02-17	1102216-20	016B1601.D	03/04/11 23:23
Calibration Check	1C06613-CCV2	023B2301.D	03/05/11 05:23
Calibration Check	1C06613-CCV4	035B3501.D	03/05/11 15:41
Calibration Check	1C06613-CCV5	049B4901.D	03/06/11 03:43

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06813
Instrument: GL-GCFID
Calibration: 1066004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06813-CCV1	003B0301.D	03/07/11 17:21
Calibration Check	1C06813-CCV2	004B0401.D	03/07/11 18:12
MPT-1343-SS6-4.5-2011-02-17	1102216-24	009B0901.D	03/07/11 19:55
MPT-1343-SS6-4.5-2011-02-17	1102216-24	006B0601.D	03/07/11 19:55
Calibration Check	1C06813-CCV3	012B1201.D	03/08/11 01:05
Calibration Check	1C06813-CCV4	013B1301.D	03/08/11 01:56

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C07305	Instrument:	GL-GCFID
Calibration:	1073001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C07305-CAL1	002B0201.D	03/13/11 20:06
Cal Standard	1C07305-CAL2	003B0301.D	03/13/11 20:57
Cal Standard	1C07305-CAL3	004B0401.D	03/13/11 21:48
Cal Standard	1C07305-CAL4	005B0501.D	03/13/11 22:40
Cal Standard	1C07305-CAL5	006B0601.D	03/13/11 23:32
Cal Standard	1C07305-CAL6	007B0701.D	03/14/11 00:25
Initial Cal Check	1C07305-ICV1	008B0801.D	03/14/11 01:16

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07412
Instrument: GL-GCFID
Calibration: 1073001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C07412-CCV1	002B0201.D	03/14/11 11:57
Calibration Check	1C07412-CCV2	003B0301.D	03/14/11 12:49
MPT-1343-SS4-0.5-2011-02-16	1102216-13	010B1001.D	03/14/11 16:14
MPT-1343-SS4-0.5-2011-02-16	1102216-13	007B0701.D	03/14/11 16:14
Blank	1C02018-BLK1	019B1901.D	03/14/11 21:22
Blank	1C02018-BLK1	013B1301.D	03/14/11 21:22
LCS	1C02018-BS1	020B2001.D	03/14/11 22:13
LCS	1C02018-BS1	014B1401.D	03/14/11 22:13
LCS Dup	1C02018-BSD1	021B2101.D	03/14/11 23:05
LCS Dup	1C02018-BSD1	015B1501.D	03/14/11 23:05
Calibration Check	1C07412-CCV3	025B2501.D	03/15/11 07:41
Calibration Check	1C07412-CCV4	026B2601.D	03/15/11 08:33

ANALYSIS DATA SHEET

MPT-1343-SS4-0.5-2011-02-16

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-13	File ID:	007B0701.D
Sampled:	02/16/11 15:15	Prepared:	03/02/11 13:15	Analyzed:	03/14/11 16:14
Solids:	81.59	Preparation:	EXT_EPH	Dilution:	1
Batch:	1C02018	Sequence:	1C07412	Calibration:	1073001
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	45300	7280	7280	7280	
NA	C19-C36 Aliphatics	170000	9710	9710	9710	
NA	C11-C22 Aromatics	25400	20600	20600	20600	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
o-Terphenyl	4854	1004	20.7	40 - 140	*
1-Chlorooctadecane	4854	1083	22.3	40 - 140	*
2-Fluorobiphenyl	4854	2688	55.4	40 - 140	
2-Bromonaphthalene	4854	3202	66.0	40 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS5-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-20	File ID:	016B1601.D
Sampled:	02/17/11 10:15	Prepared:	02/25/11 16:42	Analyzed:	03/04/11 23:23
Solids:	85.20	Preparation:	EXT_EPH	Dilution:	1
Batch:	1B25008	Sequence:	1C06613	Calibration:	1066004
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	47400	7040	7040	7040	V
NA	C19-C36 Aliphatics	108000	9390	9390	9390	X
NA	C11-C22 Aromatics	30400	20000	20000	20000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
o-Terphenyl	4695	3345	71.3	40 - 140	
1-Chlorooctadecane	4695	2489	53.0	40 - 140	
2-Fluorobiphenyl	4695	3902	83.1	40 - 140	
2-Bromonaphthalene	4695	4243	90.4	40 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS6-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid	Laboratory ID:	1102216-24	File ID:	006B0601.D
Sampled:	02/17/11 11:20	Prepared:	02/25/11 16:42	Analyzed:	03/07/11 19:55
Solids:	84.05	Preparation:	EXT_EPH	Dilution:	50
Batch:	1B25008	Sequence:	1C06813	Calibration:	1066004
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	3970000	357000	357000	357000	D V
NA	C19-C36 Aliphatics	1190000	476000	476000	476000	X, D
NA	C11-C22 Aromatics	2910000	202000	202000	202000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
o-Terphenyl	4759	4351	91.4	40 - 140	
1-Chlorooctadecane	4759	0.000		40 - 140	*
2-Fluorobiphenyl	4759	5771	121	40 - 140	
2-Bromonaphthalene	4759	5736	121	40 - 140	

LCS / LCS DUPLICATE RECOVERY

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B25008	Laboratory ID:	1B25008-BS1
Preparation:	EXT_EPH	Initial/Final:	10 g / 2 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
C9-C18 Aliphatics	24000	25060	104	40 - 140
C19-C36 Aliphatics	32000	31020	96.9	40 - 140
C11-C22 Aromatics	68000	70730	104	40 - 140

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
C9-C18 Aliphatics	24000	22910	95.4	8.96	25	40 - 140
C19-C36 Aliphatics	32000	29750	93.0	4.18	25	40 - 140
C11-C22 Aromatics	68000	60080	88.4	16.3	25	40 - 140

LCS / LCS DUPLICATE RECOVERY

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1C02018	Laboratory ID:	1C02018-BS1
Preparation:	EXT_EPH	Initial/Final:	10 g / 2 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
C9-C18 Aliphatics	24000	26750	111	40 - 140
C19-C36 Aliphatics	32000	35550	111	40 - 140
C11-C22 Aromatics	68000	49990	73.5	40 - 140

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
C9-C18 Aliphatics	24000	26660	111	0.344	25	40 - 140
C19-C36 Aliphatics	32000	35220	110	0.929	25	40 - 140
C11-C22 Aromatics	68000	53210	78.3	6.26	25	40 - 140

PREPARATION BATCH SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B25008 Batch Matrix: Solid Preparation: EXT_EPH

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS5-4.5-2011-02-17	1102216-20	02/25/11 16:42	10.00	2.00
MPT-1343-SS6-4.5-2011-02-17	1102216-24	02/25/11 16:42	10.00	2.00
Blank	1B25008-BLK1	02/25/11 16:42	10.00	2.00
LCS	1B25008-BS1	02/25/11 16:42	10.00	2.00
LCS Dup	1B25008-BSD1	02/25/11 16:42	10.00	2.00

PREPARATION BATCH SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1C02018 Batch Matrix: Solid Preparation: EXT_EPH

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS4-0.5-2011-02-16	1102216-13	03/02/11 13:15	10.10	2.00
Blank	1C02018-BLK1	03/02/11 13:15	10.00	2.00
LCS	1C02018-BS1	03/02/11 13:15	10.00	2.00
LCS Dup	1C02018-BSD1	03/02/11 13:15	10.00	2.00

INITIAL CALIBRATION STANDARDS

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06210	Instrument:	GL-GCFID
Calibration:	1066004		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0676	MAEPH Aromatics I.Cal. (100ppm ea.)	1C06210-CAL6	003B0401.D	03/02/11 12:08
11B0677	MAEPH Aromatics I.Cal. (50ppm ea.)	1C06210-CAL5	004B0501.D	03/02/11 12:59
11B0678	MAEPH Aromatics I.Cal. (40ppm ea.)	1C06210-CAL4	005B0601.D	03/02/11 13:51
11B0679	MAEPH Aromatics I.Cal. (20ppm ea.)	1C06210-CAL3	006B0701.D	03/02/11 14:43
11B0680	MAEPH Aromatics I.Cal. (10ppm ea.)	1C06210-CAL2	007B0801.D	03/02/11 15:34
11B0681	MAEPH Aromatics I.Cal. (5ppm ea.)	1C06210-CAL1	008B0901.D	03/02/11 16:26

INITIAL CALIBRATION STANDARDS

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06612	Instrument:	GL-GCFID
Calibration:	1066004		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0212	MAEPH Aliphatics I.Cal (5ppm ea.)	1C06612-CAL6	002B0201.D	03/04/11 11:21
10L0211	MAEPH Aliphatics I.Cal (10ppm ea.)	1C06612-CAL5	003B0301.D	03/04/11 12:12
10L0210	MAEPH Aliphatics I.Cal (20ppm ea.)	1C06612-CAL4	004B0401.D	03/04/11 13:04
10L0209	MAEPH Aliphatics I.Cal (40ppm ea.)	1C06612-CAL3	005B0501.D	03/04/11 13:56
10L0208	MAEPH Aliphatics I.Cal (50ppm ea.)	1C06612-CAL2	006B0601.D	03/04/11 14:47
10L0207	MAEPH Aliphatics I.Cal (100ppm)	1C06612-CAL1	007B0701.D	03/04/11 15:39

INITIAL CALIBRATION STANDARDS

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06210	Instrument:	GL-GCFID
Calibration:	1073001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0676	MAEPH Aromatics I.Cal. (100ppm ea.)	1C06210-CAL6	003B0401.D	03/02/11 12:08
11B0677	MAEPH Aromatics I.Cal. (50ppm ea.)	1C06210-CAL5	004B0501.D	03/02/11 12:59
11B0678	MAEPH Aromatics I.Cal. (40ppm ea.)	1C06210-CAL4	005B0601.D	03/02/11 13:51
11B0679	MAEPH Aromatics I.Cal. (20ppm ea.)	1C06210-CAL3	006B0701.D	03/02/11 14:43
11B0680	MAEPH Aromatics I.Cal. (10ppm ea.)	1C06210-CAL2	007B0801.D	03/02/11 15:34
11B0681	MAEPH Aromatics I.Cal. (5ppm ea.)	1C06210-CAL1	008B0901.D	03/02/11 16:26

INITIAL CALIBRATION STANDARDS

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C07305	Instrument:	GL-GCFID
Calibration:	1073001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0212	MAEPH Aliphatics I.Cal (5ppm ea.)	1C07305-CAL1	002B0201.D	03/13/11 20:06
10L0211	MAEPH Aliphatics I.Cal (10ppm ea.)	1C07305-CAL2	003B0301.D	03/13/11 20:57
10L0210	MAEPH Aliphatics I.Cal (20ppm ea.)	1C07305-CAL3	004B0401.D	03/13/11 21:48
10L0209	MAEPH Aliphatics I.Cal (40ppm ea.)	1C07305-CAL4	005B0501.D	03/13/11 22:40
10L0208	MAEPH Aliphatics I.Cal (50ppm ea.)	1C07305-CAL5	006B0601.D	03/13/11 23:32
10L0207	MAEPH Aliphatics I.Cal (100ppm)	1C07305-CAL6	007B0701.D	03/14/11 00:25

INITIAL CALIBRATION DATA

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1066004	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	3/2/2011 12:08:45PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics												
C19-C36 Aliphatics												
C11-C22 Aromatics	85	885.6235	170	913.3823	340	928.6441	680	929.4882	850	966.1659	1700	1071.689
o-Terphenyl	5	1522.2	10	1523.7	20	1545.15	40	1567.275	50	1617.36	100	1739.69
1-Chlorooctadecane												
2-Fluorobiphenyl	5	1469	10	1457	20	1483.8	40	1518.55	50	1533.4	100	1613.84
2-Bromonaphthalene	5	601.8	10	747.4	20	842.7	40	912.125	50	936.9	100	1029.76

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1066004
Instrument: GL-GCFID
Matrix: Water
Calibration Date: 3/2/2011 12:08:45PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics	600	1542.887	300	1529.833	240	1670.471	120	1645.808	60	1569.217	30	1460.233
C19-C36 Aliphatics	800	878.3787	400	873.22	320	916.6188	160	852.675	80	797.6875	40	740.95
C11-C22 Aromatics												
o-Terphenyl												
1-Chlorooctadecane	100	1027	50	1019.46	40	1072.375	20	1005.3	10	918.7	5	853
2-Fluorobiphenyl												
2-Bromonaphthalene												

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1066004
Instrument: GL-GCFID
Matrix: Water
Calibration Date: 3/2/2011 12:08:45PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics												
C19-C36 Aliphatics												
C11-C22 Aromatics												
o-Terphenyl												
1-Chlorooctadecane												
2-Fluorobiphenyl												
2-Bromonaphthalene												

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1066004	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	3/2/2011 12:08:45PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
C9-C18 Aliphatics	1569.742	4.954142	7.493	0.0112437			20	
C19-C36 Aliphatics	843.255	7.527358	22.343	1.673329E-02			20	
C11-C22 Aromatics	949.1655	6.896948	13.137	2.115201E-02			20	
o-Terphenyl	1585.896	5.243507	22.601	5.958014E-02			20	
1-Chlorooctadecane	982.6392	8.240496	24.37767	3.263117E-02			20	
2-Fluorobiphenyl	1512.598	3.802337	16.06683	0.1604008			20	
2-Bromonaphthalene	845.1142	18.00479	17.623	0.1229106			20	

INITIAL CALIBRATION DATA

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1073001	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	3/2/2011 12:08:06PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics	30	1440.7	60	1476.867	120	1563.158	240	1723.133	300	1536.04	600	1470.142
C19-C36 Aliphatics	40	741.1	80	743.4875	160	708.4125	320	754.2281	400	708.2375	800	585.4738
C11-C22 Aromatics												
o-Terphenyl												
1-Chlorooctadecane	5	943.4	10	971.4	20	926.95	40	1053.75	50	964.16	100	854.56
2-Fluorobiphenyl												
2-Bromonaphthalene												

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1073001
Instrument: GL-GCFID
Matrix: Water
Calibration Date: 3/2/2011 12:08:06PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics												
C19-C36 Aliphatics												
C11-C22 Aromatics	85	885.6235	170	913.3823	340	928.6441	680	929.4882	850	966.1659	1700	1071.689
o-Terphenyl	5	1522.2	10	1523.7	20	1545.15	40	1567.275	50	1617.36	100	1739.69
1-Chlorooctadecane												
2-Fluorobiphenyl	5	1469	10	1457	20	1483.8	40	1518.55	50	1533.4	100	1613.84
2-Bromonaphthalene	5	601.8	10	747.4	20	842.7	40	912.125	50	936.9	100	1029.76

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1073001
Instrument: GL-GCFID
Matrix: Water
Calibration Date: 3/2/2011 12:08:06PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics												
C19-C36 Aliphatics												
C11-C22 Aromatics												
o-Terphenyl												
1-Chlorooctadecane												
2-Fluorobiphenyl												
2-Bromonaphthalene												

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1073001	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	3/2/2011 12:08:06PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
C9-C18 Aliphatics	1535.007	6.686097	7.447	0.0033066			20	
C19-C36 Aliphatics	706.8232	8.834537	22.253	1.219846E-02			20	
C11-C22 Aromatics	949.1655	6.896948	13.137	2.115201E-02			20	
o-Terphenyl	1585.896	5.243507	22.601	5.958014E-02			20	
1-Chlorooctadecane	952.37	6.81659	24.28467	4.531984E-02			20	
2-Fluorobiphenyl	1512.598	3.802337	16.06683	0.1604008			20	
2-Bromonaphthalene	845.1142	18.00479	17.623	0.1229106			20	

INITIAL CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	009B1001.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06210	Injection Date:	03/02/11
Lab Sample ID:	1C06210-ICV1	Injection Time:	17:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
C11-C22 Aromatics	A	680.0	799.6	949.1655	1116.135		17.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	008B0801.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06612	Injection Date:	03/04/11
Lab Sample ID:	1C06612-ICV1	Injection Time:	16:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
C9-C18 Aliphatics	A	150.0	173.0	1569.742	1810.047		15.3	25
C19-C36 Aliphatics	A	200.0	264.4	843.255	1114.64		32.2	25 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1073001
Lab File ID:	008B0801.D	Calibration Date:	03/02/11 12:08
Sequence:	1C07305	Injection Date:	03/14/11
Lab Sample ID:	1C07305-ICV1	Injection Time:	01:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
C9-C18 Aliphatics	A	240.0	227.3	1535.007	1453.646		-5.3	25
C19-C36 Aliphatics	A	320.0	375.0	706.8232	828.425		17.2	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	009B0901.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/04/11
Lab Sample ID:	1C06613-CCV1	Injection Time:	17:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	130.4	1569.742	1705.917		8.7	25
C19-C36 Aliphatics	A	160.0	168.2	843.255	886.2875		5.1	25
1-Chlorooctadecane	A	20.00	21.60	982.6392	1061.35		8.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	023B2301.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/05/11
Lab Sample ID:	1C06613-CCV2	Injection Time:	05:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	131.8	1569.742	1723.483		9.8	25
C19-C36 Aliphatics	A	160.0	180.7	843.255	952.4		12.9	25
1-Chlorooctadecane	A	20.00	22.78	982.6392	1119.45		13.9	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	035B3501.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/05/11
Lab Sample ID:	1C06613-CCV4	Injection Time:	15:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	385.1	949.1655	1075.197		13.3	25
o-Terphenyl	A	20.00	21.27	1585.896	1686.5		6.3	25
2-Fluorobiphenyl	A	20.00	20.11	1512.598	1520.65		0.5	25
2-Bromonaphthalene	A	20.00	20.86	845.1142	881.25		4.3	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	049B4901.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/06/11
Lab Sample ID:	1C06613-CCV5	Injection Time:	03:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	356.9	949.1655	996.2559		5.0	25
o-Terphenyl	A	20.00	20.57	1585.896	1631.15		2.9	25
2-Fluorobiphenyl	A	20.00	19.83	1512.598	1499.75		-0.8	25
2-Bromonaphthalene	A	20.00	19.70	845.1142	832.35		-1.5	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	003B0301.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06813	Injection Date:	03/07/11
Lab Sample ID:	1C06813-CCV1	Injection Time:	17:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	128.7	1569.742	1683.833		7.3	25
C19-C36 Aliphatics	A	160.0	164.8	843.255	868.7625		3.0	25
1-Chlorooctadecane	A	20.00	21.26	982.6392	1044.65		6.3	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	004B0401.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06813	Injection Date:	03/07/11
Lab Sample ID:	1C06813-CCV2	Injection Time:	18:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	359.0	949.1655	1002.124		5.6	25
o-Terphenyl	A	20.00	20.08	1585.896	1592.25		0.4	25
2-Fluorobiphenyl	A	20.00	20.25	1512.598	1531.8		1.3	25
2-Bromonaphthalene	A	20.00	20.09	845.1142	849.1		0.5	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	012B1201.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06813	Injection Date:	03/08/11
Lab Sample ID:	1C06813-CCV3	Injection Time:	01:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	132.4	1569.742	1732.292		10.4	25
C19-C36 Aliphatics	A	160.0	151.5	843.255	798.7188		-5.3	25
1-Chlorooctadecane	A	20.00	20.95	982.6392	1029.4		4.8	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	013B1301.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06813	Injection Date:	03/08/11
Lab Sample ID:	1C06813-CCV4	Injection Time:	01:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	351.0	949.1655	979.75		3.2	25
o-Terphenyl	A	20.00	20.04	1585.896	1589.25		0.2	25
2-Fluorobiphenyl	A	20.00	20.32	1512.598	1537.15		1.6	25
2-Bromonaphthalene	A	20.00	20.17	845.1142	852.4		0.9	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1073001
Lab File ID:	002B0201.D	Calibration Date:	03/02/11 12:08
Sequence:	1C07412	Injection Date:	03/14/11
Lab Sample ID:	1C07412-CCV1	Injection Time:	11:57

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	128.2	1535.007	1640.6		6.9	25
C19-C36 Aliphatics	A	160.0	198.6	706.8232	877.425		24.1	25
1-Chlorooctadecane	A	20.00	23.80	952.37	1133.55		19.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1073001
Lab File ID:	003B0301.D	Calibration Date:	03/02/11 12:08
Sequence:	1C07412	Injection Date:	03/14/11
Lab Sample ID:	1C07412-CCV2	Injection Time:	12:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	376.8	949.1655	1051.821		10.8	25
o-Terphenyl	A	20.00	18.55	1585.896	1470.7		-7.3	25
2-Fluorobiphenyl	A	20.00	19.70	1512.598	1490.35		-1.5	25
2-Bromonaphthalene	A	20.00	19.86	845.1142	839.2		-0.7	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1073001
Lab File ID:	025B2501.D	Calibration Date:	03/02/11 12:08
Sequence:	1C07412	Injection Date:	03/15/11
Lab Sample ID:	1C07412-CCV3	Injection Time:	07:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	142.7	1535.007	1825.933		19.0	25
C19-C36 Aliphatics	A	160.0	157.1	706.8232	694.1625		-1.8	25
1-Chlorooctadecane	A	20.00	20.29	952.37	966		1.4	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_007
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1073001
Lab File ID:	026B2601.D	Calibration Date:	03/02/11 12:08
Sequence:	1C07412	Injection Date:	03/15/11
Lab Sample ID:	1C07412-CCV4	Injection Time:	08:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	309.4	949.1655	863.8088		-9.0	25
o-Terphenyl	A	20.00	17.40	1585.896	1380		-13.0	25
2-Fluorobiphenyl	A	20.00	20.78	1512.598	1571.35		3.9	25
2-Bromonaphthalene	A	20.00	21.93	845.1142	926.7		9.7	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06613
Instrument: GL-GCFID
Calibration: 1066004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06613-CCV1) ug/mL				Lab File ID: 009B0901.D		Analyzed: 03/04/11 17:22		
1-Chlorooctadecane	20.00	108	75 - 125	24.37	24.37	0.0000	+/-1.000	
Blank (1B25008-BLK1) ug/Kg wet				Lab File ID: 036B3601.D		Analyzed: 03/04/11 18:14		
o-Terphenyl	4000	71.6	40 - 140	22.583		22.5830	+/-1.000	*
1-Chlorooctadecane	4000	59.2	40 - 140	24.376	24.37	0.0060	+/-1.000	
2-Fluorobiphenyl	4000	77.9	40 - 140	16.066		16.0660	+/-1.000	*
2-Bromonaphthalene	4000	67.1	40 - 140	17.633		17.6330	+/-1.000	*
LCS (1B25008-BS1) ug/Kg wet				Lab File ID: 037B3701.D		Analyzed: 03/04/11 19:06		
o-Terphenyl	4000	81.6	40 - 140	22.58		22.5800	+/-1.000	*
1-Chlorooctadecane	4000	63.5	40 - 140	24.373	24.37	0.0030	+/-1.000	
2-Fluorobiphenyl	4000	87.2	40 - 140	16.053		16.0530	+/-1.000	*
2-Bromonaphthalene	4000	87.2	40 - 140	17.61		17.6100	+/-1.000	*
LCS Dup (1B25008-BSD1) ug/Kg wet				Lab File ID: 038B3801.D		Analyzed: 03/04/11 19:57		
o-Terphenyl	4000	73.0	40 - 140	22.583		22.5830	+/-1.000	*
1-Chlorooctadecane	4000	63.1	40 - 140	24.373	24.37	0.0030	+/-1.000	
2-Fluorobiphenyl	4000	83.2	40 - 140	16.056		16.0560	+/-1.000	*
2-Bromonaphthalene	4000	83.8	40 - 140	17.61		17.6100	+/-1.000	*
MPT-1343-SS5-4.5-2011-02-17 (1102216-20) ug/Kg dry				Lab File ID: 042B4201.D		Analyzed: 03/04/11 23:23		
o-Terphenyl	4695	71.3	40 - 140	22.58		22.5800	+/-1.000	*
1-Chlorooctadecane	4695	53.0	40 - 140	24.373	24.37	0.0030	+/-1.000	
2-Fluorobiphenyl	4695	83.1	40 - 140	16.066		16.0660	+/-1.000	*
2-Bromonaphthalene	4695	90.4	40 - 140	17.626		17.6260	+/-1.000	*
Calibration Check (1C06613-CCV2) ug/mL				Lab File ID: 023B2301.D		Analyzed: 03/05/11 05:23		
1-Chlorooctadecane	20.00	114	75 - 125	24.37	24.37	0.0000	+/-1.000	
Calibration Check (1C06613-CCV4) ug/mL				Lab File ID: 035B3501.D		Analyzed: 03/05/11 15:41		
o-Terphenyl	20.00	106	75 - 125	22.58		22.5800	+/-1.000	*
2-Fluorobiphenyl	20.00	101	75 - 125	16.053		16.0530	+/-1.000	*
2-Bromonaphthalene	20.00	104	75 - 125	17.606		17.6060	+/-1.000	*
Calibration Check (1C06613-CCV5) ug/mL				Lab File ID: 049B4901.D		Analyzed: 03/06/11 03:43		
o-Terphenyl	20.00	103	75 - 125	22.57		22.5700	+/-1.000	*
2-Fluorobiphenyl	20.00	99.2	75 - 125	16.043		16.0430	+/-1.000	*
2-Bromonaphthalene	20.00	98.5	75 - 125	17.6		17.6000	+/-1.000	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06813
Instrument: GL-GCFID
Calibration: 1066004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06813-CCV1) ug/mL				Lab File ID: 003B0301.D		Analyzed: 03/07/11 17:21		
1-Chlorooctadecane	20.00	106	75 - 125	24.353	24.353	0.0000	+/-1.000	
Calibration Check (1C06813-CCV2) ug/mL				Lab File ID: 004B0401.D		Analyzed: 03/07/11 18:12		
o-Terphenyl	20.00	100	75 - 125	22.56		22.5600	+/-1.000	*
2-Fluorobiphenyl	20.00	101	75 - 125	16.036		16.0360	+/-1.000	*
2-Bromonaphthalene	20.00	100	75 - 125	17.59		17.5900	+/-1.000	*
MPT-1343-SS6-4.5-2011-02-17 (1102216-24) ug/Kg dry				Lab File ID: 009B0901.D		Analyzed: 03/07/11 19:55		
o-Terphenyl	4759	91.4	40 - 140	22.566		22.5660	+/-1.000	*
1-Chlorooctadecane	4759		40 - 140		24.353	-24.3530	+/-1.000	*
2-Fluorobiphenyl	4759	121	40 - 140	16.066		16.0660	+/-1.000	*
2-Bromonaphthalene	4759	121	40 - 140	17.616		17.6160	+/-1.000	*
Calibration Check (1C06813-CCV3) ug/mL				Lab File ID: 012B1201.D		Analyzed: 03/08/11 01:05		
1-Chlorooctadecane	20.00	105	75 - 125	24.353	24.353	0.0000	+/-1.000	
Calibration Check (1C06813-CCV4) ug/mL				Lab File ID: 013B1301.D		Analyzed: 03/08/11 01:56		
o-Terphenyl	20.00	100	75 - 125	22.563		22.5630	+/-1.000	*
2-Fluorobiphenyl	20.00	102	75 - 125	16.036		16.0360	+/-1.000	*
2-Bromonaphthalene	20.00	101	75 - 125	17.59		17.5900	+/-1.000	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_007
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07412
Instrument: GL-GCFID
Calibration: 1073001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07412-CCV1) ug/mL				Lab File ID: 002B0201.D		Analyzed: 03/14/11 11:57		
1-Chlorooctadecane	20.00	119	75 - 125	24.266	24.266	0.0000	+/-1.000	
Calibration Check (1C07412-CCV2) ug/mL				Lab File ID: 003B0301.D		Analyzed: 03/14/11 12:49		
o-Terphenyl	20.00	92.8	75 - 125	22.473		22.4730	+/-1.000	*
2-Fluorobiphenyl	20.00	98.5	75 - 125	15.956		15.9560	+/-1.000	*
2-Bromonaphthalene	20.00	99.3	75 - 125	17.506		17.5060	+/-1.000	*
MPT-1343-SS4-0.5-2011-02-16 (1102216-13) ug/Kg dry				Lab File ID: 010B1001.D		Analyzed: 03/14/11 16:14		
o-Terphenyl	4854	20.7	40 - 140	22.483		22.4830	+/-1.000	*
1-Chlorooctadecane	4854	22.3	40 - 140	24.273	24.266	0.0070	+/-1.000	*
2-Fluorobiphenyl	4854	55.4	40 - 140	15.98		15.9800	+/-1.000	*
2-Bromonaphthalene	4854	66.0	40 - 140	17.533		17.5330	+/-1.000	*
Blank (1C02018-BLK1) ug/Kg wet				Lab File ID: 019B1901.D		Analyzed: 03/14/11 21:22		
o-Terphenyl	4000	58.4	40 - 140	22.483		22.4830	+/-1.000	*
1-Chlorooctadecane	4000	71.7	40 - 140	24.266	24.266	0.0000	+/-1.000	
2-Fluorobiphenyl	4000	80.4	40 - 140	15.963		15.9630	+/-1.000	*
2-Bromonaphthalene	4000	81.0	40 - 140	17.523		17.5230	+/-1.000	*
LCS (1C02018-BS1) ug/Kg wet				Lab File ID: 020B2001.D		Analyzed: 03/14/11 22:13		
o-Terphenyl	4000	62.6	40 - 140	22.476		22.4760	+/-1.000	*
1-Chlorooctadecane	4000	70.4	40 - 140	24.263	24.266	-0.0030	+/-1.000	
2-Fluorobiphenyl	4000	77.6	40 - 140	15.953		15.9530	+/-1.000	*
2-Bromonaphthalene	4000	78.6	40 - 140	17.503		17.5030	+/-1.000	*
LCS Dup (1C02018-BSD1) ug/Kg wet				Lab File ID: 021B2101.D		Analyzed: 03/14/11 23:05		
o-Terphenyl	4000	67.7	40 - 140	22.476		22.4760	+/-1.000	*
1-Chlorooctadecane	4000	76.9	40 - 140	24.263	24.266	-0.0030	+/-1.000	
2-Fluorobiphenyl	4000	81.4	40 - 140	15.953		15.9530	+/-1.000	*
2-Bromonaphthalene	4000	81.1	40 - 140	17.503		17.5030	+/-1.000	*
Calibration Check (1C07412-CCV3) ug/mL				Lab File ID: 025B2501.D		Analyzed: 03/15/11 07:41		
1-Chlorooctadecane	20.00	101	75 - 125	24.263	24.266	-0.0030	+/-1.000	
Calibration Check (1C07412-CCV4) ug/mL				Lab File ID: 026B2601.D		Analyzed: 03/15/11 08:33		
o-Terphenyl	20.00	87.0	75 - 125	22.473		22.4730	+/-1.000	*
2-Fluorobiphenyl	20.00	104	75 - 125	15.946		15.9460	+/-1.000	*
2-Bromonaphthalene	20.00	110	75 - 125	17.5		17.5000	+/-1.000	*

HOLDING TIME SUMMARY
MAEPH

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS4-0.5-2011-02-16	02/16/11 15:15	02/21/11 08:45	03/02/11 13:15	13.96	14.00	03/14/11 16:14	12.12	40.00	
MPT-1343-SS5-4.5-2011-02-17	02/17/11 10:15	02/21/11 08:45	02/25/11 16:42	8.31	14.00	03/04/11 23:23	7.28	40.00	
MPT-1343-SS6-4.5-2011-02-17	02/17/11 11:20	02/21/11 08:45	02/25/11 16:42	8.27	14.00	03/07/11 19:55	10.13	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B25008-BLK1 File ID: 010B1001.D

Sampled: Prepared: Analyzed: 03/04/11 18:14

Solids: Preparation: EXT_EPH Dilution:

Batch: 1B25008 Sequence: 1C06613 Calibration: 1066004 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	7110	6000	6000	6000	
NA	C19-C36 Aliphatics		8000	8000	8000	X U
NA	C11-C22 Aromatics		17000	17000	17000	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2864	71.6	40 - 140	
1-Chlorooctadecane	4000	2366	59.2	40 - 140	
2-Fluorobiphenyl	4000	3117	77.9	40 - 140	
2-Bromonaphthalene	4000	2685	67.1	40 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B25008-BS1 File ID: 011B1101.D

Sampled: Prepared: Analyzed: 03/04/11 19:06

Solids: Preparation: EXT_EPH Dilution:

Batch: 1B25008 Sequence: 1C06613 Calibration: 1066004 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	25060	6000	6000	6000	
NA	C19-C36 Aliphatics	31020	8000	8000	8000	X
NA	C11-C22 Aromatics	70730	17000	17000	17000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	3266	81.6	40 - 140	
1-Chlorooctadecane	4000	2540	63.5	40 - 140	
2-Fluorobiphenyl	4000	3487	87.2	40 - 140	
2-Bromonaphthalene	4000	3489	87.2	40 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B25008-BSD1 File ID: 012B1201.D

Sampled: Prepared: Analyzed: 03/04/11 19:57

Solids: Preparation: EXT_EPH Dilution:

Batch: 1B25008 Sequence: 1C06613 Calibration: 1066004 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	22910	6000	6000	6000	
NA	C19-C36 Aliphatics	29750	8000	8000	8000	X
NA	C11-C22 Aromatics	60080	17000	17000	17000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2920	73.0	40 - 140	
1-Chlorooctadecane	4000	2524	63.1	40 - 140	
2-Fluorobiphenyl	4000	3328	83.2	40 - 140	
2-Bromonaphthalene	4000	3351	83.8	40 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C02018-BLK1 File ID: 013B1301.D

Sampled: Prepared: Analyzed: 03/14/11 21:22

Solids: Preparation: EXT_EPH Dilution:

Batch: 1C02018 Sequence: 1C07412 Calibration: 1073001 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics		6000	6000	6000	U
NA	C19-C36 Aliphatics		8000	8000	8000	U
NA	C11-C22 Aromatics		17000	17000	17000	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2335	58.4	40 - 140	
1-Chlorooctadecane	4000	2866	71.7	40 - 140	
2-Fluorobiphenyl	4000	3217	80.4	40 - 140	
2-Bromonaphthalene	4000	3240	81.0	40 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C02018-BS1 File ID: 014B1401.D

Sampled: Prepared: Analyzed: 03/14/11 22:13

Solids: Preparation: EXT_EPH Dilution:

Batch: 1C02018 Sequence: 1C07412 Calibration: 1073001 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	26750	6000	6000	6000	
NA	C19-C36 Aliphatics	35550	8000	8000	8000	
NA	C11-C22 Aromatics	49990	17000	17000	17000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2502	62.6	40 - 140	
1-Chlorooctadecane	4000	2814	70.4	40 - 140	
2-Fluorobiphenyl	4000	3104	77.6	40 - 140	
2-Bromonaphthalene	4000	3143	78.6	40 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C02018-BSD1 File ID: 015B1501.D

Sampled: Prepared: Analyzed: 03/14/11 23:05

Solids: Preparation: EXT_EPH Dilution:

Batch: 1C02018 Sequence: 1C07412 Calibration: 1073001 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	26660	6000	6000	6000	
NA	C19-C36 Aliphatics	35220	8000	8000	8000	
NA	C11-C22 Aromatics	53210	17000	17000	17000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2708	67.7	40 - 140	
1-Chlorooctadecane	4000	3077	76.9	40 - 140	
2-Fluorobiphenyl	4000	3256	81.4	40 - 140	
2-Bromonaphthalene	4000	3245	81.1	40 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** CTOJM33_007

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Mayport CTO JM33 2010

Matrix: Solid **Instrument:** GL-GCFID

Analyte	MDL	MRL	Units	Method
C11-C22 Aromatics	17000	17000	ug/Kg	MAEPH
C19-C36 Aliphatics	8000	8000	ug/Kg	MAEPH
C9-C18 Aliphatics	6000	6000	ug/Kg	MAEPH

ANALYTICAL SUMMARY DATA PACKAGE
SDG # CTOJM33_008

PROJECT NAME: NAS MAYPORT CTO JM33 2010
PROJECT LOCATION: MAYPORT, FLORIDA
CONTRACT #: N62470-08-D-1001

SUBMITTAL TO:
Tobrena Sedlmeyer
Tetra Tech NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Brian Richard
Tel (615)345-1115
Fax (866)417-0548
Email: brichard@empirlabs.com

Original Report Date: March 9, 2011
Report Revision #: 01
Revision Date: March 22, 2011
Total # of Pages: 244

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. *This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.*

Table of Contents

#	Description	Page No.
1	Cover Page	1
2	Table of Contents	2
3	Case Narrative	3
4	Sample Receipt Information Chain of Custody Forms Sample Receipt Confirmations WorkOrder Summary Sample Delivery Group (SDG) Sheets	8
5	Data for SW8260B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	22
6	Data for SW8270C Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	99
7	Data for FLPRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	148
8	Data for MAEPH Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	192
9	Data for FLPRO SPLP Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	219

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. SPLP analyses on samples 1102218-04, -08, -12, -16 and -20 were indicated on the COC with hold until requested. They were not requested and are not included in this report. Sample 1102218-04 was requested for MAEPH analysis 8 days after sampling. This analysis is outside DoD certification. There were no subcontracted analyses for this SDG.

Changes to the Revision
Revision 01: The package was revised to add forms for the analysis of FLPRO SPLP for samples 1102218-04, -08, -12, -16, and -20 that were taken off hold by the request of the client.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The batch spike associated to batch 1C02015 exceeded criteria with a negative bias for Benzene.

The internal standard 1,4-Dichlorobenzene-d4 exceeded criteria in sample 110221-15; however, the internal standard 1,4-Dichlorobenzene-d4 is not associated to the compounds reported.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The continuing calibration verification 1C06609-CCV1 exceeded criteria with a positive bias for Benzo(a)anthracene, Chrysene, Pyrene, and Terphenyl-d14.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

FLPRO:
The retention time window was exceeded for the surrogate 2-Fluorobiphenyl in 1B23011-BLK1, 1102218-19, and -20. The result bias due to the retention time shift was determined to be negligible for all affected samples and batch QC.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

MAEPH:
The method blank 1B25008-BLK1 has positive results for C9-C18 Aliphatics.

The initial calibration verification 1C06612-ICV1 exceeded criteria with a positive bias for C19-C36 Aliphatics.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

FLPRO SPLP:
The surrogate o-Terphenyl exceeded criteria with a negative bias in 1102218-04, -08, -12, -16, -20, 1C11019-MS1, and –MSD1. The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in samples 1102218-08 and -20.

Samples 1102218-04, -08, -12, -16, and -20 were requested by the client for FLPRO SPLP outside of the extraction EPA recommended holding time.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is “V”.**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is “L”.**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

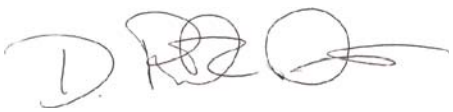
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0873 | PAGE 3 OF 4

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112602801	MAYPORT	DAVE SIERKEN	904.636-6125	EMPIRICAL LABORATORIES
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: TOD TRUMBULL	PHONE NUMBER: 904.636-6125	ADDRESS: 621 MAINSTREAM DR, SUITE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE: NASHVILLE, TN 37228

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
										G	G	G						
									PRESERVATIVE USED									
									TYPE OF ANALYSIS	VOC's 8260B (BTEX only)	8270C PAH only	* SPLP						
2/17	1205	MPT-1343-SS7-0.5-2011-02-17	SS7	0	0.5	SO	G	1		✓								1102218-01
2/17	1210	MPT-1343-SS7-2.0-2011-02-17	SS7	0.5	2.0	SO	G	4	✓	✓								-02
2/17	1220	MPT-1343-SS7-4.0-2011-02-17	SS7	2.0	4.0	SO	G	4	✓	✓								-03
2/17	1225	MPT-1343-SS7-4.5-2011-02-17	SS7	4.0	4.5	SO	G	5	✓	✓	✓							* PLEASE CO-TEST D. SIERKEN ON WITH TO RUN SPLP -04
2/17	1400	MPT-1343-SS8-0.5-2011-02-17	SS8	0	0.5	SO	G	1		✓								-05
2/17	1405	MPT-1343-SS8-2.0-2011-02-17	SS8	0.5	2.0	SO	G	4	✓	✓								-06
2/17	1415	MPT-1343-SS8-4.0-2011-02-17	SS8	2.0	4.0	SO	G	4	✓	✓								-07
2/17	1420	MPT-1343-SS8-4.5-2011-02-17	SS8	4.0	4.5	SO	G	5	✓	✓	✓							* -08
2/17	1515	MPT-1343-SS9-0.5-2011-02-17	SS9	0	0.5	SO	G	1		✓								-09
2/17	1520	MPT-1343-SS9-2.0-2011-02-17	SS9	0.5	2.0	SO	G	4	✓	✓								-10
2/17	1530	MPT-1343-SS9-4.0-2011-02-17	SS9	2.0	4.0	SO	G	4	✓	✓								-11
2/17	1535	MPT-1343-SS9-4.5-2011-02-17	SS9	4.0	4.5	SO	G	5	✓	✓	✓							* -12

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	2/18/11	1500	1. RECEIVED BY	2/21/11	845
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TtNUS-001

CTOJM33_008 Summ Package 9

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 615-345-1115 ♦ (fax) 615-846-5426

13150

Send Results to:	Send Invoice to:
Name DAVE SIEFKEN	Name DAVE SIEFKEN
Company Tetra Tech NUS Inc	Company TetraTech NUS Inc
Address 8640 Philips Hwy	Address 8640 Philips Hwy
City Jacksonville FL	City Jacksonville
State, Zip FL 32256	State, Zip FL 32256
Phone 904-636-6125	Phone 904-636-6125
Fax	Fax
E-mail David.siefken@Tetratech.com	E-mail DAVID.SIEFKEN@Tetratech.com
Project No./Name: 112602801 / MAYPORT 1343	Sampler's (Signature): [signature]

Analysis Requirements:

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix	VOC's 8260B (BTEX+MTBE)	8270C PAH / FLPRO	SPLP *	Comments	No. of Bottles	Lab Use Only Containers/Pres.
1102218-13	2/18/0910	MPT-1343-SS10-0.5-2011-02-18	SO		✓			1	
-14	2/18/0915	MPT-1343-SS10-2.0-2011-02-18	SO	✓	✓			4	
-15	2/18/0925	MPT-1343-SS10-4.0-2011-02-18	SO	✓	✓			4	
-16	2/18/0930	MPT-1343-SS10-4.5-2011-02-18	SO	✓	✓	✓	* please contact D. SIEFKEN ON WHEN TO RUN SPLP	5	
-17	2/18/1000	MPT-1343-SS11-0.5-2011-02-18	SO		✓			1	
-18	2/18/1005	MPT-1343-SS11-2.0-2011-02-18	SO	✓	✓			4	
-19	2/18/1015	MPT-1343-SS11-4.0-2011-02-18	SO	✓	✓			4	
-20	2/18/1020	MPT-1343-SS11-4.5-2011-02-18	SO	✓	✓	✓		5	

Lab Use Only:

VOA Headspace	Y	N	NA
Field Filtered	Y	N	NA
Correct Containers	Y	N	NA
Discrepancies	Y	N	NA
Cust. Seals Intact	Y	N	NA
Containers Intact	Y	N	NA

Airbill #:

CAR #:

Sample Kit Prep'd by: (Signature)	Date/Time	Received By: (Signature)
Empirical	—	[signature]
Relinquished by: (Signature) [signature]	Date/Time 2/18/11/1500	Received By: (Signature)
Relinquished by: (Signature)	Date/Time	Received By: (Signature)
Received for Laboratory by: (Signature) [signature]	Date/Time 2/21/11 845	Temperature

REMARKS:

Details:

Page 4 of 4

Cooler No. ____ of ____

Date Shipped ____

Shipped By ____

Turnaround ____

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102218 Number of Coolers: 1 of 4

Client: Tetra Tech Project: 112G02801

Date/Time Received: 2.21.11 8:45am Date cooler(s) opened: 2.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1793

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.18.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.3 °C Correction Factor: -0.3 °C Final Value: 1.0 °C

Dates samples were logged-in: 2-22-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102218 Number of Coolers: 2 of 4

Client: Tetra Tech Project: 112602901

Date/Time Received: 2.21.11 8:45Am Date cooler(s) opened: 2.21.10

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 2 Seal date: ? Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.4 °C Correction Factor: -0.3 °C Final Value: 0.6 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 4

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102218 Number of Coolers: 3 of 4

Client: Tetra Tech Project: 112602801

Date/Time Received: 2.21.11 845am Date cooler(s) opened: 2.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4657

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 2.18.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.7 °C Correction Factor: -0.3 °C Final Value: 0.4 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A

11. Did all bottles arrive unbroken? ..... Yes No N/A

12. Was all required bottle label information complete? ..... Yes No N/A

13. Did all bottle labels agree with custody papers? ..... Yes No N/A

14. Were correct containers used for the analyses indicated? ..... Yes No N/A

15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A

17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A

18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 4

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102216, 1102219 Number of Coolers: 4 of 4

Client: Tetra Tech Project: 112602801

Date/Time Received: 2.21.11 8:45AM Date cooler(s) opened: 2.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4679

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 2 Seal date: 2.18.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt; Initial Value: 0.9 °C Correction Factor: -0.3 °C Final Value: 0.6 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

See 1 of 4

WORK ORDER

1102218

Printed: 3/8/2011 2:05:07PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Report To:
Tetra Tech NUS, Inc. (T010)
Tobrena Skeen
Foster Plaza 7, 661 Anderson Drive
Pittsburgh, PA 15220
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone :(412) 921-8182
Fax: (412) 921-4040

Date Due: 03/09/2011 16:00 (12 day TAT)
Received By: Sonya Gordon
Logged In By: Sonya Gordon

Date Received: 02/21/2011 08:45
Date Logged In 02/22/2011 16:58

Samples Received at: **1°C**

Custody Seals	No	Received On Ice	No
Containers Intact	No		
COC/Labels Agree	No		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Version	Comments
1102218-01 MPT-1343-SS7-0.5-2011-02-17 [Solid] Sampled 02/17/2011 12:05 Eastern					
SM2540B	03/04/2011 14:00	10	02/24/2011 11:05		
FLPRO	03/04/2011 14:00	10	03/03/2011 11:05		
SW8270C	03/04/2011 14:00	10	03/03/2011 11:05		

WORK ORDER

1102218

Printed: 3/8/2011 2:05:07PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102218-02 MPT-1343-SS7-2.0-2011-02-17 [Solid] Sampled 02/17/2011 12:10 Eastern					
SW8270C	03/04/2011 14:00	10	03/03/2011 11:10		
SW8260B	03/04/2011 14:00	10	03/03/2011 11:10		AP Vials. BTEX & MTBE
SM2540B	03/04/2011 14:00	10	02/24/2011 11:10		
FLPRO	03/04/2011 14:00	10	03/03/2011 11:10		
1102218-03 MPT-1343-SS7-4.0-2011-02-17 [Solid] Sampled 02/17/2011 12:20 Eastern					
SW8270C	03/04/2011 14:00	10	03/03/2011 11:20		
SW8260B	03/04/2011 14:00	10	03/03/2011 11:20		AP Vials. BTEX & MTBE
SM2540B	03/04/2011 14:00	10	02/24/2011 11:20		
FLPRO	03/04/2011 14:00	10	03/03/2011 11:20		
1102218-04 MPT-1343-SS7-4.5-2011-02-17 [Solid] Sampled 02/17/2011 12:25 Eastern					**May need SPLP, client will notify**
SM2540B	03/04/2011 14:00	10	02/24/2011 11:25		
SW8270C	03/04/2011 14:00	10	03/03/2011 11:25		
SW8260B	03/04/2011 14:00	10	03/03/2011 11:25		AP Vials. BTEX & MTBE
FLPRO	03/04/2011 14:00	10	03/03/2011 11:25		
MAEPH	03/04/2011 14:00	10	03/03/2011 11:25		
1102218-05 MPT-1343-SS8-0.5-2011-02-17 [Solid] Sampled 02/17/2011 14:00 Eastern					
SW8270C	03/04/2011 14:00	10	03/03/2011 13:00		
SM2540B	03/04/2011 14:00	10	02/24/2011 13:00		
FLPRO	03/04/2011 14:00	10	03/03/2011 13:00		

WORK ORDER

1102218

Printed: 3/8/2011 2:05:07PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102218-06 MPT-1343-SS8-2.0-2011-02-17 [Solid] Sampled 02/17/2011 14:05 Eastern					
FLPRO	03/04/2011 14:00	10	03/03/2011 13:05		
SM2540B	03/04/2011 14:00	10	02/24/2011 13:05		
SW8260B	03/04/2011 14:00	10	03/03/2011 13:05		AP Vials. BTEX & MTBE
SW8270C	03/04/2011 14:00	10	03/03/2011 13:05		
1102218-07 MPT-1343-SS8-4.0-2011-02-17 [Solid] Sampled 02/17/2011 14:15 Eastern					
SM2540B	03/04/2011 14:00	10	02/24/2011 13:15		
SW8260B	03/04/2011 14:00	10	03/03/2011 13:15		AP Vials. BTEX & MTBE
SW8270C	03/04/2011 14:00	10	03/03/2011 13:15		
FLPRO	03/04/2011 14:00	10	03/03/2011 13:15		
1102218-08 MPT-1343-SS8-4.5-2011-02-17 [Solid] Sampled 02/17/2011 14:20 Eastern					**May need SPLP, client will notify**
SM2540B	03/04/2011 14:00	10	02/24/2011 13:20		
SW8260B	03/04/2011 14:00	10	03/03/2011 13:20		AP Vials. BTEX & MTBE
SW8270C	03/04/2011 14:00	10	03/03/2011 13:20		
FLPRO	03/04/2011 14:00	10	03/03/2011 13:20		
1102218-09 MPT-1343-SS9-0.5-2011-02-17 [Solid] Sampled 02/17/2011 15:15 Eastern					
SM2540B	03/04/2011 14:00	10	02/24/2011 14:15		
SW8270C	03/04/2011 14:00	10	03/03/2011 14:15		
FLPRO	03/04/2011 14:00	10	03/03/2011 14:15		

WORK ORDER

1102218

Printed: 3/8/2011 2:05:07PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102218-10 MPT-1343-SS9-2.0-2011-02-17 [Solid] Sampled 02/17/2011 15:20 Eastern					
SM2540B	03/04/2011 14:00	10	02/24/2011 14:20		
FLPRO	03/04/2011 14:00	10	03/03/2011 14:20		
SW8270C	03/04/2011 14:00	10	03/03/2011 14:20		
SW8260B	03/04/2011 14:00	10	03/03/2011 14:20		AP Vials. BTEX & MTBE
1102218-11 MPT-1343-SS9-4.0-2011-02-17 [Solid] Sampled 02/17/2011 15:30 Eastern					
SW8260B	03/04/2011 14:00	10	03/03/2011 14:30		AP Vials. BTEX & MTBE
SM2540B	03/04/2011 14:00	10	02/24/2011 14:30		
SW8270C	03/04/2011 14:00	10	03/03/2011 14:30		
FLPRO	03/04/2011 14:00	10	03/03/2011 14:30		
1102218-12 MPT-1343-SS9-4.5-2011-02-17 [Solid] Sampled 02/17/2011 15:35 Eastern					**May need SPLP, client will notify**
SW8270C	03/04/2011 14:00	10	03/03/2011 14:35		
SW8260B	03/04/2011 14:00	10	03/03/2011 14:35		AP Vials. BTEX & MTBE
SM2540B	03/04/2011 14:00	10	02/24/2011 14:35		
FLPRO	03/04/2011 14:00	10	03/03/2011 14:35		
1102218-13 MPT-1343-SS10-0.5-2011-02-18 [Solid] Sampled 02/18/2011 09:10 Eastern					
SM2540B	03/04/2011 14:00	10	02/25/2011 08:10		
FLPRO	03/04/2011 14:00	10	03/04/2011 08:10		
SW8270C	03/04/2011 14:00	10	03/04/2011 08:10		

WORK ORDER

1102218

Printed: 3/8/2011 2:05:07PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102218-14 MPT-1343-SS10-2.0-2011-02-18 [Solid] Sampled 02/18/2011 09:15 Eastern					
SW8270C	03/04/2011 14:00	10	03/04/2011 08:15		
SW8260B	03/04/2011 14:00	10	03/04/2011 08:15		AP Vials. BTEX & MTBE
SM2540B	03/04/2011 14:00	10	02/25/2011 08:15		
FLPRO	03/04/2011 14:00	10	03/04/2011 08:15		
1102218-15 MPT-1343-SS10-4.0-2011-02-18 [Solid] Sampled 02/18/2011 09:25 Eastern					
FLPRO	03/04/2011 14:00	10	03/04/2011 08:25		
SW8270C	03/04/2011 14:00	10	03/04/2011 08:25		
SM2540B	03/04/2011 14:00	10	02/25/2011 08:25		
SW8260B	03/04/2011 14:00	10	03/04/2011 08:25		AP Vials. BTEX & MTBE
1102218-16 MPT-1343-SS10-4.5-2011-02-18 [Solid] Sampled 02/18/2011 09:30 Eastern					**may need SPLP, Client will notify**
SM2540B	03/04/2011 14:00	10	02/25/2011 08:30		
SW8270C	03/04/2011 14:00	10	03/04/2011 08:30		
SW8260B	03/04/2011 14:00	10	03/04/2011 08:30		AP Vials. BTEX & MTBE
FLPRO	03/04/2011 14:00	10	03/04/2011 08:30		
1102218-17 MPT-1343-SS11-0.5-2011-02-18 [Solid] Sampled 02/18/2011 10:00 Eastern					
FLPRO	03/04/2011 14:00	10	03/04/2011 09:00		
SM2540B	03/04/2011 14:00	10	02/25/2011 09:00		
SW8270C	03/04/2011 14:00	10	03/04/2011 09:00		

WORK ORDER

1102218

Printed: 3/8/2011 2:05:07PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Kim Kostzer
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1102218-18 MPT-1343-SS11-2.0-2011-02-18 [Solid] Sampled 02/18/2011 10:05 Eastern					
SM2540B	03/04/2011 14:00	10	02/25/2011 09:05		
SW8270C	03/04/2011 14:00	10	03/04/2011 09:05		
SW8260B	03/04/2011 14:00	10	03/04/2011 09:05		AP Vials. BTEX & MTBE
FLPRO	03/04/2011 14:00	10	03/04/2011 09:05		
1102218-19 MPT-1343-SS11-4.0-2011-02-18 [Solid] Sampled 02/18/2011 10:15 Eastern					
SW8260B	03/04/2011 14:00	10	03/04/2011 09:15		AP Vials. BTEX & MTBE
SW8270C	03/04/2011 14:00	10	03/04/2011 09:15		
FLPRO	03/04/2011 14:00	10	03/04/2011 09:15		
SM2540B	03/04/2011 14:00	10	02/25/2011 09:15		
1102218-20 MPT-1343-SS11-4.5-2011-02-18 [Solid] Sampled 02/18/2011 10:20 Eastern					**May need SPLP, client will notify**
SM2540B	03/04/2011 14:00	10	02/25/2011 09:20		
FLPRO	03/04/2011 14:00	10	03/04/2011 09:20		
SW8270C	03/04/2011 14:00	10	03/04/2011 09:20		
SW8260B	03/04/2011 14:00	10	03/04/2011 09:20		AP Vials. BTEX & MTBE

Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: NAS Mayport CTO JM33 2016
SDG #: CTOJM33_008
MATRIX: Soil

QC LEVEL: Level IV
Report Due: 3/9/2011
Client Sample Count: 20

Sample Type	Sampled	Received	Lab ID	Client ID	FLPRO	MAEPH	SM2540B	SW8260B	SW8270C
Client Sample	2/17/2011	2/21/2011	1102218-01	MPT-1343-SS7-0.5-2011-02-17	X		X		X
Client Sample	2/17/2011	2/21/2011	1102218-02	MPT-1343-SS7-2.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-03	MPT-1343-SS7-4.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-04	MPT-1343-SS7-4.5-2011-02-17	x	X	X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-05	MPT-1343-SS8-0.5-2011-02-17	X		X		X
Client Sample	2/17/2011	2/21/2011	1102218-06	MPT-1343-SS8-2.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-07	MPT-1343-SS8-4.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-08	MPT-1343-SS8-4.5-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-09	MPT-1343-SS9-0.5-2011-02-17	X		X		X
Client Sample	2/17/2011	2/21/2011	1102218-10	MPT-1343-SS9-2.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-11	MPT-1343-SS9-4.0-2011-02-17	X		X	X	X
Client Sample	2/17/2011	2/21/2011	1102218-12	MPT-1343-SS9-4.5-2011-02-17	X		X	X	X
Client Sample	2/18/2011	2/21/2011	1102218-13	MPT-1343-SS10-0.5-2011-02-18	X		X		X
Client Sample	2/18/2011	2/21/2011	1102218-14	MPT-1343-SS10-2.0-2011-02-18	X		X	X	X
Client Sample	2/18/2011	2/21/2011	1102218-15	MPT-1343-SS10-4.0-2011-02-18	X		X	X	X
Client Sample	2/18/2011	2/21/2011	1102218-16	MPT-1343-SS10-4.5-2011-02-18	X		X	X	X
Client Sample	2/18/2011	2/21/2011	1102218-17	MPT-1343-SS11-0.5-2011-02-18	X		X		X
Client Sample	2/18/2011	2/21/2011	1102218-18	MPT-1343-SS11-2.0-2011-02-18	X		X	X	X
Client Sample	2/18/2011	2/21/2011	1102218-19	MPT-1343-SS11-4.0-2011-02-18	X		X	X	X
Client Sample	2/18/2011	2/21/2011	1102218-20	MPT-1343-SS11-4.5-2011-02-18	X		X	X	X

Data for SW8260B Forms

ANALYSIS DATA SHEET

MPT-1343-SS7-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-02 File ID: 0221802.D

Sampled: 02/17/11 12:10 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 16:25

Solids: 92.88 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.23	2.46	4.93	U
100-41-4	Ethylbenzene		1.23	2.46	4.93	U
1634-04-4	Methyl t-Butyl Ether		1.23	2.46	4.93	U
108-88-3	Toluene		1.23	2.46	4.93	U
1330-20-7	Xylenes (total)		3.70	7.39	14.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.58	29.21	98.8	85 - 120	
Dibromofluoromethane	29.58	27.73	93.7	80 - 125	
1,2-Dichloroethane-d4	29.58	29.04	98.2	75 - 140	
Toluene-d8	29.58	29.79	101	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS7-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-03 File ID: 0221803.D

Sampled: 02/17/11 12:20 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 16:49

Solids: 89.77 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.26	2.51	5.03	U
100-41-4	Ethylbenzene		1.26	2.51	5.03	U
1634-04-4	Methyl t-Butyl Ether		1.26	2.51	5.03	U
108-88-3	Toluene		1.26	2.51	5.03	U
1330-20-7	Xylenes (total)		3.77	7.54	15.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.16	29.10	96.5	85 - 120	
Dibromofluoromethane	30.16	29.09	96.5	80 - 125	
1,2-Dichloroethane-d4	30.16	30.01	99.5	75 - 140	
Toluene-d8	30.16	30.61	101	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS7-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-04 File ID: 0221804.D

Sampled: 02/17/11 12:25 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 17:13

Solids: 86.58 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.28	2.55	5.10	U
100-41-4	Ethylbenzene		1.28	2.55	5.10	U
1634-04-4	Methyl t-Butyl Ether		1.28	2.55	5.10	U
108-88-3	Toluene		1.28	2.55	5.10	U
1330-20-7	Xylenes (total)		3.83	7.65	15.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.61	29.71	97.1	85 - 120	
Dibromofluoromethane	30.61	29.08	95.0	80 - 125	
1,2-Dichloroethane-d4	30.61	30.24	98.8	75 - 140	
Toluene-d8	30.61	29.85	97.5	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS8-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-06 File ID: 0221806.D

Sampled: 02/17/11 14:05 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 17:37

Solids: 76.43 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.52	3.03	6.07	U
100-41-4	Ethylbenzene		1.52	3.03	6.07	U
1634-04-4	Methyl t-Butyl Ether		1.52	3.03	6.07	U
108-88-3	Toluene		1.52	3.03	6.07	U
1330-20-7	Xylenes (total)		4.55	9.10	18.2	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	36.41	35.77	98.2	85 - 120	
Dibromofluoromethane	36.41	34.53	94.8	80 - 125	
1,2-Dichloroethane-d4	36.41	35.93	98.7	75 - 140	
Toluene-d8	36.41	36.17	99.3	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS8-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-07 File ID: 0221807.D

Sampled: 02/17/11 14:15 Prepared: 02/26/11 00:00 Analyzed: 02/26/11 18:01

Solids: 82.81 Preparation: 5035 Dilution: 1

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.10	2.19	4.38	U
100-41-4	Ethylbenzene		1.10	2.19	4.38	U
1634-04-4	Methyl t-Butyl Ether		1.10	2.19	4.38	U
108-88-3	Toluene		1.10	2.19	4.38	U
1330-20-7	Xylenes (total)		3.29	6.57	13.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	26.29	25.39	96.6	85 - 120	
Dibromofluoromethane	26.29	24.80	94.3	80 - 125	
1,2-Dichloroethane-d4	26.29	26.85	102	75 - 140	
Toluene-d8	26.29	25.01	95.1	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS8-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-08 File ID: 0221808.D

Sampled: 02/17/11 14:20 Prepared: 02/28/11 00:00 Analyzed: 02/28/11 16:39

Solids: 80.57 Preparation: 5035 Dilution: 1

Batch: 1B28003 Sequence: 1C06001 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.03	2.06	4.13	U
100-41-4	Ethylbenzene		1.03	2.06	4.13	U
1634-04-4	Methyl t-Butyl Ether		1.03	2.06	4.13	U
108-88-3	Toluene		1.03	2.06	4.13	U
1330-20-7	Xylenes (total)		3.09	6.19	12.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	24.76	23.01	93.0	85 - 120	
Dibromofluoromethane	24.76	23.76	96.0	80 - 125	
1,2-Dichloroethane-d4	24.76	23.14	93.5	75 - 140	
Toluene-d8	24.76	24.48	98.9	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS9-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-10 File ID: 0221810.D

Sampled: 02/17/11 15:20 Prepared: 02/28/11 00:00 Analyzed: 02/28/11 17:03

Solids: 88.14 Preparation: 5035 Dilution: 1

Batch: 1B28003 Sequence: 1C06001 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.32	2.64	5.28	U
100-41-4	Ethylbenzene		1.32	2.64	5.28	U
1634-04-4	Methyl t-Butyl Ether		1.32	2.64	5.28	U
108-88-3	Toluene		1.32	2.64	5.28	U
1330-20-7	Xylenes (total)		3.96	7.92	15.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	31.69	28.58	90.2	85 - 120	
Dibromofluoromethane	31.69	30.92	97.6	80 - 125	
1,2-Dichloroethane-d4	31.69	30.23	95.4	75 - 140	
Toluene-d8	31.69	31.02	97.9	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS9-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-11 File ID: 0221811.D

Sampled: 02/17/11 15:30 Prepared: 02/28/11 00:00 Analyzed: 02/28/11 17:27

Solids: 85.35 Preparation: 5035 Dilution: 1

Batch: 1B28003 Sequence: 1C06001 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.24	2.47	4.95	U
100-41-4	Ethylbenzene		1.24	2.47	4.95	U
1634-04-4	Methyl t-Butyl Ether		1.24	2.47	4.95	U
108-88-3	Toluene		1.24	2.47	4.95	U
1330-20-7	Xylenes (total)		3.71	7.42	14.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.69	26.00	87.6	85 - 120	
Dibromofluoromethane	29.69	26.32	88.6	80 - 125	
1,2-Dichloroethane-d4	29.69	28.28	95.3	75 - 140	
Toluene-d8	29.69	28.52	96.1	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS9-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-12RE1 File ID: 0221812.D

Sampled: 02/17/11 15:35 Prepared: 03/01/11 00:00 Analyzed: 03/01/11 12:32

Solids: 88.14 Preparation: 5035 Dilution: 1

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.44	2.89	5.78	U
100-41-4	Ethylbenzene		1.44	2.89	5.78	U
1634-04-4	Methyl t-Butyl Ether		1.44	2.89	5.78	U
108-88-3	Toluene		1.44	2.89	5.78	U
1330-20-7	Xylenes (total)		4.33	8.67	17.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	34.66	29.86	86.2	85 - 120	
Dibromofluoromethane	34.66	34.14	98.5	80 - 125	
1,2-Dichloroethane-d4	34.66	33.46	96.5	75 - 140	
Toluene-d8	34.66	37.99	110	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS10-2.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-14 File ID: 0221814.D

Sampled: 02/18/11 09:15 Prepared: 03/01/11 00:00 Analyzed: 03/01/11 12:56

Solids: 88.71 Preparation: 5035 Dilution: 1

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.04	2.08	4.16	U
100-41-4	Ethylbenzene		1.04	2.08	4.16	U
1634-04-4	Methyl t-Butyl Ether		1.04	2.08	4.16	U
108-88-3	Toluene		1.04	2.08	4.16	U
1330-20-7	Xylenes (total)		3.12	6.23	12.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	24.94	23.27	93.3	85 - 120	
Dibromofluoromethane	24.94	23.21	93.1	80 - 125	
1,2-Dichloroethane-d4	24.94	24.82	99.5	75 - 140	
Toluene-d8	24.94	25.15	101	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS10-4.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-15 File ID: 0221815.D

Sampled: 02/18/11 09:25 Prepared: 03/01/11 00:00 Analyzed: 03/01/11 13:20

Solids: 86.90 Preparation: 5035 Dilution: 1

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.11	2.22	4.44	U
100-41-4	Ethylbenzene		1.11	2.22	4.44	U
1634-04-4	Methyl t-Butyl Ether		1.11	2.22	4.44	U
108-88-3	Toluene		1.11	2.22	4.44	U
1330-20-7	Xylenes (total)		3.33	6.66	13.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	26.64	24.37	91.5	85 - 120	
Dibromofluoromethane	26.64	26.30	98.7	80 - 125	
1,2-Dichloroethane-d4	26.64	26.84	101	75 - 140	
Toluene-d8	26.64	27.43	103	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS10-4.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-16	File ID:	0221816.D
Sampled:	02/18/11 09:30	Prepared:	03/01/11 00:00	Analyzed:	03/01/11 13:44
Solids:	84.45	Preparation:	5035	Dilution:	1
Batch:	1C01010	Sequence:	1C06108	Calibration:	1045002
Instrument:	MS-VOA6				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	4.99	U
100-41-4	Ethylbenzene		1.25	2.50	4.99	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	4.99	U
108-88-3	Toluene		1.25	2.50	4.99	U
1330-20-7	Xylenes (total)		3.74	7.49	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.95	27.53	91.9	85 - 120	
Dibromofluoromethane	29.95	28.45	95.0	80 - 125	
1,2-Dichloroethane-d4	29.95	28.23	94.2	75 - 140	
Toluene-d8	29.95	29.56	98.7	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS11-2.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-18RE1 File ID: 0221818.D

Sampled: 02/18/11 10:05 Prepared: 03/02/11 00:00 Analyzed: 03/02/11 16:31

Solids: 90.64 Preparation: 5035 Dilution: 1

Batch: 1C02015 Sequence: 1C06201 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.23	2.46	4.93	Q U
100-41-4	Ethylbenzene		1.23	2.46	4.93	U
1634-04-4	Methyl t-Butyl Ether		1.23	2.46	4.93	U
108-88-3	Toluene		1.23	2.46	4.93	U
1330-20-7	Xylenes (total)		3.69	7.39	14.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	29.55	27.03	91.5	85 - 120	
Dibromofluoromethane	29.55	28.61	96.8	80 - 125	
1,2-Dichloroethane-d4	29.55	27.81	94.1	75 - 140	
Toluene-d8	29.55	29.55	100	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS11-4.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-19RE1 File ID: 0221819.D

Sampled: 02/18/11 10:15 Prepared: 03/02/11 00:00 Analyzed: 03/02/11 16:55

Solids: 87.44 Preparation: 5035 Dilution: 1

Batch: 1C02015 Sequence: 1C06201 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.28	2.57	5.13	Q U
100-41-4	Ethylbenzene		1.28	2.57	5.13	U
1634-04-4	Methyl t-Butyl Ether		1.28	2.57	5.13	U
108-88-3	Toluene		1.28	2.57	5.13	U
1330-20-7	Xylenes (total)		3.85	7.70	15.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.80	28.46	92.4	85 - 120	
Dibromofluoromethane	30.80	30.02	97.5	80 - 125	
1,2-Dichloroethane-d4	30.80	31.90	104	75 - 140	
Toluene-d8	30.80	29.89	97.0	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS11-4.5-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-20 File ID: 0221820.D

Sampled: 02/18/11 10:20 Prepared: 03/01/11 00:00 Analyzed: 03/01/11 14:56

Solids: 80.24 Preparation: 5035 Dilution: 1

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		1.41	2.83	5.65	U
100-41-4	Ethylbenzene		1.41	2.83	5.65	U
1634-04-4	Methyl t-Butyl Ether		1.41	2.83	5.65	U
108-88-3	Toluene		1.41	2.83	5.65	U
1330-20-7	Xylenes (total)		4.24	8.48	17.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	33.93	32.82	96.8	85 - 120	
Dibromofluoromethane	33.93	31.42	92.6	80 - 125	
1,2-Dichloroethane-d4	33.93	31.57	93.1	75 - 140	
Toluene-d8	33.93	33.44	98.6	85 - 115	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05903-CCV1) ug/L				Lab File ID: 0226CCV1.D		Analyzed: 02/26/11 10:38		
Bromofluorobenzene	30.00	97.5	80 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.93	6.93	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	80 - 120	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	30.00	98.3	80 - 120	9.635	9.635	0.0000	+/-1.000	
LCS (1B26001-BS1) ug/Kg wet				Lab File ID: 0226LS1.D		Analyzed: 02/26/11 11:13		
Bromofluorobenzene	30.00	93.4	85 - 120	12.251	12.251	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.7	80 - 125	6.94	6.93	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.4	75 - 140	7.432	7.432	0.0000	+/-1.000	
Toluene-d8	30.00	93.5	85 - 115	9.635	9.635	0.0000	+/-1.000	
Blank (1B26001-BLK1) ug/Kg wet				Lab File ID: 0226BL1.D		Analyzed: 02/26/11 12:25		
Bromofluorobenzene	30.00	96.9	85 - 120	12.246	12.251	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	95.7	80 - 125	6.945	6.93	0.0150	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	75 - 140	7.436	7.432	0.0040	+/-1.000	
Toluene-d8	30.00	96.3	85 - 115	9.639	9.635	0.0040	+/-1.000	
MPT-1343-SS7-2.0-2011-02-17 (1102218-02) ug/Kg dry				Lab File ID: 0221802.D		Analyzed: 02/26/11 16:25		
Bromofluorobenzene	29.58	98.8	85 - 120	12.257	12.251	0.0060	+/-1.000	
Dibromofluoromethane	29.58	93.7	80 - 125	6.955	6.93	0.0250	+/-1.000	
1,2-Dichloroethane-d4	29.58	98.2	75 - 140	7.447	7.432	0.0150	+/-1.000	
Toluene-d8	29.58	101	85 - 115	9.64	9.635	0.0050	+/-1.000	
MPT-1343-SS7-4.0-2011-02-17 (1102218-03) ug/Kg dry				Lab File ID: 0221803.D		Analyzed: 02/26/11 16:49		
Bromofluorobenzene	30.16	96.5	85 - 120	12.25	12.251	-0.0010	+/-1.000	
Dibromofluoromethane	30.16	96.5	80 - 125	6.949	6.93	0.0190	+/-1.000	
1,2-Dichloroethane-d4	30.16	99.5	75 - 140	7.441	7.432	0.0090	+/-1.000	
Toluene-d8	30.16	101	85 - 115	9.644	9.635	0.0090	+/-1.000	
MPT-1343-SS7-4.5-2011-02-17 (1102218-04) ug/Kg dry				Lab File ID: 0221804.D		Analyzed: 02/26/11 17:13		
Bromofluorobenzene	30.61	97.1	85 - 120	12.256	12.251	0.0050	+/-1.000	
Dibromofluoromethane	30.61	95.0	80 - 125	6.945	6.93	0.0150	+/-1.000	
1,2-Dichloroethane-d4	30.61	98.8	75 - 140	7.437	7.432	0.0050	+/-1.000	
Toluene-d8	30.61	97.5	85 - 115	9.64	9.635	0.0050	+/-1.000	
MPT-1343-SS8-2.0-2011-02-17 (1102218-06) ug/Kg dry				Lab File ID: 0221806.D		Analyzed: 02/26/11 17:37		
Bromofluorobenzene	36.41	98.2	85 - 120	12.257	12.251	0.0060	+/-1.000	
Dibromofluoromethane	36.41	94.8	80 - 125	6.946	6.93	0.0160	+/-1.000	
1,2-Dichloroethane-d4	36.41	98.7	75 - 140	7.438	7.432	0.0060	+/-1.000	
Toluene-d8	36.41	99.3	85 - 115	9.641	9.635	0.0060	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS8-4.0-2011-02-17 (1102218-07) ug/Kg dry				Lab File ID: 0221807.D		Analyzed: 02/26/11 18:01		
Bromofluorobenzene	26.29	96.6	85 - 120	12.25	12.251	-0.0010	+/-1.000	
Dibromofluoromethane	26.29	94.3	80 - 125	6.939	6.93	0.0090	+/-1.000	
1,2-Dichloroethane-d4	26.29	102	75 - 140	7.431	7.432	-0.0010	+/-1.000	
Toluene-d8	26.29	95.1	85 - 115	9.644	9.635	0.0090	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06001
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06001-CCV1) ug/L				Lab File ID: 0228CCV1.D		Analyzed: 02/28/11 07:31		
Bromofluorobenzene	30.00	98.0	80 - 120	12.256	12.256	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.6	80 - 120	6.945	6.945	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.0	80 - 120	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	30.00	97.2	80 - 120	9.65	9.65	0.0000	+/-1.000	
LCS (1B28003-BS1) ug/Kg wet				Lab File ID: 0228LS1.D		Analyzed: 02/28/11 08:09		
Bromofluorobenzene	30.00	94.2	85 - 120	12.256	12.256	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.9	80 - 125	6.955	6.945	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	89.8	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	30.00	93.9	85 - 115	9.65	9.65	0.0000	+/-1.000	
Blank (1B28003-BLK1) ug/Kg wet				Lab File ID: 0228BL1.D		Analyzed: 02/28/11 09:21		
Bromofluorobenzene	30.00	97.3	85 - 120	12.26	12.256	0.0040	+/-1.000	
Dibromofluoromethane	30.00	99.2	80 - 125	6.949	6.945	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	75 - 140	7.441	7.447	-0.0060	+/-1.000	
Toluene-d8	30.00	94.2	85 - 115	9.644	9.65	-0.0060	+/-1.000	
MPT-1343-SS8-4.5-2011-02-17 (1102218-08) ug/Kg dry				Lab File ID: 0221808.D		Analyzed: 02/28/11 16:39		
Bromofluorobenzene	24.76	93.0	85 - 120	12.246	12.256	-0.0100	+/-1.000	
Dibromofluoromethane	24.76	96.0	80 - 125	6.935	6.945	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	24.76	93.5	75 - 140	7.427	7.447	-0.0200	+/-1.000	
Toluene-d8	24.76	98.9	85 - 115	9.63	9.65	-0.0200	+/-1.000	
MPT-1343-SS9-2.0-2011-02-17 (1102218-10) ug/Kg dry				Lab File ID: 0221810.D		Analyzed: 02/28/11 17:03		
Bromofluorobenzene	31.69	90.2	85 - 120	12.251	12.256	-0.0050	+/-1.000	
Dibromofluoromethane	31.69	97.6	80 - 125	6.93	6.945	-0.0150	+/-1.000	
1,2-Dichloroethane-d4	31.69	95.4	75 - 140	7.422	7.447	-0.0250	+/-1.000	
Toluene-d8	31.69	97.9	85 - 115	9.635	9.65	-0.0150	+/-1.000	
MPT-1343-SS9-4.0-2011-02-17 (1102218-11) ug/Kg dry				Lab File ID: 0221811.D		Analyzed: 02/28/11 17:27		
Bromofluorobenzene	29.69	87.6	85 - 120	12.251	12.256	-0.0050	+/-1.000	
Dibromofluoromethane	29.69	88.6	80 - 125	6.95	6.945	0.0050	+/-1.000	
1,2-Dichloroethane-d4	29.69	95.3	75 - 140	7.442	7.447	-0.0050	+/-1.000	
Toluene-d8	29.69	96.1	85 - 115	9.645	9.65	-0.0050	+/-1.000	
LCS Dup (1B28003-BSD1) ug/Kg wet				Lab File ID: 0228LD1.D		Analyzed: 02/28/11 18:39		
Bromofluorobenzene	30.00	95.4	85 - 120	12.241	12.256	-0.0150	+/-1.000	
Dibromofluoromethane	30.00	97.4	80 - 125	6.93	6.945	-0.0150	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.2	75 - 140	7.422	7.447	-0.0250	+/-1.000	
Toluene-d8	30.00	93.1	85 - 115	9.634	9.65	-0.0160	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06108
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06108-CCV1) ug/L				Lab File ID: 0301CCV1.D		Analyzed: 03/01/11 09:02		
Bromofluorobenzene	30.00	101	80 - 120	12.235	12.235	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.8	80 - 120	6.924	6.924	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.8	80 - 120	7.416	7.416	0.0000	+/-1.000	
Toluene-d8	30.00	101	80 - 120	9.628	9.628	0.0000	+/-1.000	
LCS (1C01010-BS1) ug/Kg wet				Lab File ID: 0301LS1.D		Analyzed: 03/01/11 09:44		
Bromofluorobenzene	30.00	93.4	85 - 120	12.237	12.235	0.0020	+/-1.000	
Dibromofluoromethane	30.00	98.7	80 - 125	6.926	6.924	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	75 - 140	7.418	7.416	0.0020	+/-1.000	
Toluene-d8	30.00	95.2	85 - 115	9.621	9.628	-0.0070	+/-1.000	
Blank (1C01010-BLK1) ug/Kg wet				Lab File ID: 0301BL1.D		Analyzed: 03/01/11 10:56		
Bromofluorobenzene	30.00	96.8	85 - 120	12.241	12.235	0.0060	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 125	6.92	6.924	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	75 - 140	7.412	7.416	-0.0040	+/-1.000	
Toluene-d8	30.00	96.6	85 - 115	9.625	9.628	-0.0030	+/-1.000	
MPT-1343-SS9-4.5-2011-02-17 (1102218-12RE1) ug/Kg dry				Lab File ID: 0221812.D		Analyzed: 03/01/11 12:32		
Bromofluorobenzene	34.66	86.2	85 - 120	12.24	12.235	0.0050	+/-1.000	
Dibromofluoromethane	34.66	98.5	80 - 125	6.929	6.924	0.0050	+/-1.000	
1,2-Dichloroethane-d4	34.66	96.5	75 - 140	7.421	7.416	0.0050	+/-1.000	
Toluene-d8	34.66	110	85 - 115	9.624	9.628	-0.0040	+/-1.000	
MPT-1343-SS10-2.0-2011-02-18 (1102218-14) ug/Kg dry				Lab File ID: 0221814.D		Analyzed: 03/01/11 12:56		
Bromofluorobenzene	24.94	93.3	85 - 120	12.241	12.235	0.0060	+/-1.000	
Dibromofluoromethane	24.94	93.1	80 - 125	6.93	6.924	0.0060	+/-1.000	
1,2-Dichloroethane-d4	24.94	99.5	75 - 140	7.422	7.416	0.0060	+/-1.000	
Toluene-d8	24.94	101	85 - 115	9.625	9.628	-0.0030	+/-1.000	
MPT-1343-SS10-4.0-2011-02-18 (1102218-15) ug/Kg dry				Lab File ID: 0221815.D		Analyzed: 03/01/11 13:20		
Bromofluorobenzene	26.64	91.5	85 - 120	12.235	12.235	0.0000	+/-1.000	
Dibromofluoromethane	26.64	98.7	80 - 125	6.934	6.924	0.0100	+/-1.000	
1,2-Dichloroethane-d4	26.64	101	75 - 140	7.426	7.416	0.0100	+/-1.000	
Toluene-d8	26.64	103	85 - 115	9.629	9.628	0.0010	+/-1.000	
MPT-1343-SS10-4.5-2011-02-18 (1102218-16) ug/Kg dry				Lab File ID: 0221816.D		Analyzed: 03/01/11 13:44		
Bromofluorobenzene	29.95	91.9	85 - 120	12.24	12.235	0.0050	+/-1.000	
Dibromofluoromethane	29.95	95.0	80 - 125	6.919	6.924	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	29.95	94.2	75 - 140	7.421	7.416	0.0050	+/-1.000	
Toluene-d8	29.95	98.7	85 - 115	9.624	9.628	-0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06108
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS11-4.5-2011-02-18 (1102218-20) ug/Kg dry				Lab File ID: 0221820.D		Analyzed: 03/01/11 14:56		
Bromofluorobenzene	33.93	96.8	85 - 120	12.24	12.235	0.0050	+/-1.000	
Dibromofluoromethane	33.93	92.6	80 - 125	6.93	6.924	0.0060	+/-1.000	
1,2-Dichloroethane-d4	33.93	93.1	75 - 140	7.421	7.416	0.0050	+/-1.000	
Toluene-d8	33.93	98.6	85 - 115	9.624	9.628	-0.0040	+/-1.000	
LCS Dup (1C01010-BSD1) ug/Kg wet				Lab File ID: 0301LD1.D		Analyzed: 03/01/11 17:20		
Bromofluorobenzene	30.00	93.1	85 - 120	12.241	12.235	0.0060	+/-1.000	
Dibromofluoromethane	30.00	95.9	80 - 125	6.93	6.924	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	75 - 140	7.422	7.416	0.0060	+/-1.000	
Toluene-d8	30.00	95.4	85 - 115	9.625	9.628	-0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06201
Instrument: MS-VOA6
Calibration: 1045002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06201-CCV1) ug/L				Lab File ID: 0302CCV1.D		Analyzed: 03/02/11 13:08		
Bromofluorobenzene	30.00	102	80 - 120	12.24	12.24	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	6.939	6.939	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.431	7.431	0.0000	+/-1.000	
Toluene-d8	30.00	105	80 - 120	9.634	9.634	0.0000	+/-1.000	
LCS (1C02015-BS1) ug/Kg wet				Lab File ID: 0302LS1.D		Analyzed: 03/02/11 14:07		
Bromofluorobenzene	30.00	93.9	85 - 120	12.244	12.24	0.0040	+/-1.000	
Dibromofluoromethane	30.00	94.7	80 - 125	6.924	6.939	-0.0150	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.6	75 - 140	7.415	7.431	-0.0160	+/-1.000	
Toluene-d8	30.00	95.2	85 - 115	9.628	9.634	-0.0060	+/-1.000	
Blank (1C02015-BLK1) ug/Kg wet				Lab File ID: 0302BL1.D		Analyzed: 03/02/11 15:43		
Bromofluorobenzene	30.00	96.6	85 - 120	12.246	12.24	0.0060	+/-1.000	
Dibromofluoromethane	30.00	99.9	80 - 125	6.925	6.939	-0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	75 - 140	7.427	7.431	-0.0040	+/-1.000	
Toluene-d8	30.00	96.3	85 - 115	9.63	9.634	-0.0040	+/-1.000	
MPT-1343-SS11-2.0-2011-02-18 (1102218-18RE1) ug/Kg dry				Lab File ID: 0221818.D		Analyzed: 03/02/11 16:31		
Bromofluorobenzene	29.55	91.5	85 - 120	12.236	12.24	-0.0040	+/-1.000	
Dibromofluoromethane	29.55	96.8	80 - 125	6.925	6.939	-0.0140	+/-1.000	
1,2-Dichloroethane-d4	29.55	94.1	75 - 140	7.416	7.431	-0.0150	+/-1.000	
Toluene-d8	29.55	100	85 - 115	9.629	9.634	-0.0050	+/-1.000	
MPT-1343-SS11-4.0-2011-02-18 (1102218-19RE1) ug/Kg dry				Lab File ID: 0221819.D		Analyzed: 03/02/11 16:55		
Bromofluorobenzene	30.80	92.4	85 - 120	12.238	12.24	-0.0020	+/-1.000	
Dibromofluoromethane	30.80	97.5	80 - 125	6.927	6.939	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.80	104	75 - 140	7.418	7.431	-0.0130	+/-1.000	
Toluene-d8	30.80	97.0	85 - 115	9.631	9.634	-0.0030	+/-1.000	
LCS Dup (1C02015-BSD1) ug/Kg wet				Lab File ID: 0302LSD1.D		Analyzed: 03/02/11 17:43		
Bromofluorobenzene	30.00	93.5	85 - 120	12.241	12.24	0.0010	+/-1.000	
Dibromofluoromethane	30.00	97.2	80 - 125	6.93	6.939	-0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.2	75 - 140	7.421	7.431	-0.0100	+/-1.000	
Toluene-d8	30.00	95.4	85 - 115	9.625	9.634	-0.0090	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B26001	Laboratory ID:	1B26001-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	43.89	87.8	75 - 125
Ethylbenzene	50.00	43.31	86.6	75 - 125
Methyl t-Butyl Ether	50.00	46.94	93.9	55 - 150
Toluene	50.00	44.40	88.8	70 - 125
Xylenes (total)	150.0	136.6	91.1	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix: Solid
Batch: 1B28003
Laboratory ID: 1B28003-BS1
Preparation: 5035
Initial/Final: 5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	40.63	81.3	75 - 125
Ethylbenzene	50.00	39.47	78.9	75 - 125
Methyl t-Butyl Ether	50.00	40.92	81.8	55 - 150
Toluene	50.00	39.45	78.9	70 - 125
Xylenes (total)	150.0	125.1	83.4	75 - 125

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50.00	41.30	82.6	1.62	30	75 - 125
Ethylbenzene	50.00	39.34	78.7	0.333	30	75 - 125
Methyl t-Butyl Ether	50.00	41.43	82.9	1.26	30	55 - 150
Toluene	50.00	39.69	79.4	0.590	30	70 - 125
Xylenes (total)	150.0	124.9	83.3	0.174	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix: Solid
Batch: 1C01010
Laboratory ID: 1C01010-BS1
Preparation: 5035
Initial/Final: 5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	49.79	99.6	75 - 125
Ethylbenzene	50.00	51.11	102	75 - 125
Methyl t-Butyl Ether	50.00	54.14	108	55 - 150
Toluene	50.00	51.50	103	70 - 125
Xylenes (total)	150.0	160.4	107	75 - 125

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50.00	54.84	110	9.65	30	75 - 125
Ethylbenzene	50.00	54.82	110	7.00	30	75 - 125
Methyl t-Butyl Ether	50.00	61.42	123	12.6	30	55 - 150
Toluene	50.00	55.08	110	6.72	30	70 - 125
Xylenes (total)	150.0	172.1	115	7.03	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1C02015	Laboratory ID:	1C02015-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	**50.00**	**37.08**	**74.2**	**75 - 125**
Ethylbenzene	50.00	38.48	77.0	75 - 125
Methyl t-Butyl Ether	50.00	38.49	77.0	55 - 150
Toluene	50.00	38.13	76.3	70 - 125
Xylenes (total)	150.0	120.1	80.0	75 - 125

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50.00	39.26	78.5	5.71	30	75 - 125
Ethylbenzene	50.00	40.29	80.6	4.59	30	75 - 125
Methyl t-Butyl Ether	50.00	40.77	81.5	5.76	30	55 - 150
Toluene	50.00	40.52	81.0	6.07	30	70 - 125
Xylenes (total)	150.0	126.6	84.4	5.29	30	75 - 125

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B26001 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS7-2.0-2011-02-17	1102218-02	02/26/11 00:00	5.46	5.00
MPT-1343-SS7-4.0-2011-02-17	1102218-03	02/26/11 00:00	5.54	5.00
MPT-1343-SS7-4.5-2011-02-17	1102218-04	02/26/11 00:00	5.66	5.00
MPT-1343-SS8-2.0-2011-02-17	1102218-06	02/26/11 00:00	5.39	5.00
MPT-1343-SS8-4.0-2011-02-17	1102218-07	02/26/11 00:00	6.89	5.00
Blank	1B26001-BLK1	02/26/11 00:00	5.00	5.00
LCS	1B26001-BS1	02/26/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B28003 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS8-4.5-2011-02-17	1102218-08	02/28/11 00:00	7.52	5.00
MPT-1343-SS9-2.0-2011-02-17	1102218-10	02/28/11 00:00	5.37	5.00
MPT-1343-SS9-4.0-2011-02-17	1102218-11	02/28/11 00:00	5.92	5.00
Blank	1B28003-BLK1	02/28/11 00:00	5.00	5.00
LCS	1B28003-BS1	02/28/11 00:00	5.00	5.00
LCS Dup	1B28003-BSD1	02/28/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1C01010 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS9-4.5-2011-02-17	1102218-12RE1	03/01/11 00:00	4.91	5.00
MPT-1343-SS10-2.0-2011-02-18	1102218-14	03/01/11 00:00	6.78	5.00
MPT-1343-SS10-4.0-2011-02-18	1102218-15	03/01/11 00:00	6.48	5.00
MPT-1343-SS10-4.5-2011-02-18	1102218-16	03/01/11 00:00	5.93	5.00
MPT-1343-SS11-4.5-2011-02-18	1102218-20	03/01/11 00:00	5.51	5.00
Blank	1C01010-BLK1	03/01/11 00:00	5.00	5.00
LCS	1C01010-BS1	03/01/11 00:00	5.00	5.00
LCS Dup	1C01010-BSD1	03/01/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1C02015 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS11-2.0-2011-02-18	1102218-18RE1	03/02/11 00:00	5.60	5.00
MPT-1343-SS11-4.0-2011-02-18	1102218-19RE1	03/02/11 00:00	5.57	5.00
Blank	1C02015-BLK1	03/02/11 00:00	5.00	5.00
LCS	1C02015-BS1	03/02/11 00:00	5.00	5.00
LCS Dup	1C02015-BSD1	03/02/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0208TUN1.D	Injection Date:	02/08/11
Instrument ID:	MS-VOA6	Injection Time:	16:12
Sequence:	1B04025	Lab Sample ID:	1B04025-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.5	PASS
75	30 - 60% of 95	39.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.17	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.4	PASS
175	5 - 9% of 174	7.21	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.33	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0208TUN2.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA6	Injection Time:	06:45
Sequence:	1B04025	Lab Sample ID:	1B04025-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.4	PASS
75	30 - 60% of 95	41.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.69	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	82.1	PASS
175	5 - 9% of 174	7.04	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.33	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0226TUN1.D	Injection Date:	02/26/11
Instrument ID:	MS-VOA6	Injection Time:	10:14
Sequence:	1B05903	Lab Sample ID:	1B05903-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.7	PASS
75	30 - 60% of 95	44.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.15	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.6	PASS
175	5 - 9% of 174	7.17	PASS
176	95 - 101% of 174	96.4	PASS
177	5 - 9% of 176	6.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0228TUN1.D	Injection Date:	02/28/11
Instrument ID:	MS-VOA6	Injection Time:	07:07
Sequence:	1C06001	Lab Sample ID:	1C06001-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.6	PASS
75	30 - 60% of 95	43.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.24	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	90	PASS
175	5 - 9% of 174	6.69	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.26	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0301TUN1.D	Injection Date:	03/01/11
Instrument ID:	MS-VOA6	Injection Time:	08:38
Sequence:	1C06108	Lab Sample ID:	1C06108-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.2	PASS
75	30 - 60% of 95	43.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.56	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	87.9	PASS
175	5 - 9% of 174	6.95	PASS
176	95 - 101% of 174	98.5	PASS
177	5 - 9% of 176	6.08	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0302TUN1.D	Injection Date:	03/02/11
Instrument ID:	MS-VOA6	Injection Time:	11:16
Sequence:	1C06201	Lab Sample ID:	1C06201-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.7	PASS
75	30 - 60% of 95	39.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.42	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	124	PASS
175	5 - 9% of 174	6.84	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	5.96	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B04025	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04025-TUN1	0208TUN1.D	02/08/11 16:12
Cal Standard	1B04025-CAL1	0208CAL1.D	02/08/11 16:35
Cal Standard	1B04025-CAL2	0208CAL2.D	02/08/11 16:59
Cal Standard	1B04025-CAL3	0208CAL3.D	02/08/11 17:23
Cal Standard	1B04025-CAL4	0208CAL4.D	02/08/11 17:47
Cal Standard	1B04025-CAL5	0208CAL5.D	02/08/11 18:11
Cal Standard	1B04025-CAL7	0208CAL7.D	02/08/11 18:59
Cal Standard	1B04025-CAL8	0208CAL8.D	02/08/11 19:23
MS Tune	1B04025-TUN2	0208TUN2.D	02/09/11 06:45
Cal Standard	1B04025-CAL6	208CAL6A.D	02/09/11 07:13
Initial Cal Check	1B04025-ICV1	208ICV1A.D	02/09/11 07:37

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05903	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05903-TUN1	0226TUN1.D	02/26/11 10:14
Calibration Check	1B05903-CCV1	0226CCV1.D	02/26/11 10:38
LCS	1B26001-BS1	0226LS1.D	02/26/11 11:13
Blank	1B26001-BLK1	0226BL1.D	02/26/11 12:25
MPT-1343-SS7-2.0-2011-02-17	1102218-02	0221802.D	02/26/11 16:25
MPT-1343-SS7-4.0-2011-02-17	1102218-03	0221803.D	02/26/11 16:49
MPT-1343-SS7-4.5-2011-02-17	1102218-04	0221804.D	02/26/11 17:13
MPT-1343-SS8-2.0-2011-02-17	1102218-06	0221806.D	02/26/11 17:37
MPT-1343-SS8-4.0-2011-02-17	1102218-07	0221807.D	02/26/11 18:01

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06001	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06001-TUN1	0228TUN1.D	02/28/11 07:07
Calibration Check	1C06001-CCV1	0228CCV1.D	02/28/11 07:31
LCS	1B28003-BS1	0228LS1.D	02/28/11 08:09
Blank	1B28003-BLK1	0228BL1.D	02/28/11 09:21
MPT-1343-SS8-4.5-2011-02-17	1102218-08	0221808.D	02/28/11 16:39
MPT-1343-SS9-2.0-2011-02-17	1102218-10	0221810.D	02/28/11 17:03
MPT-1343-SS9-4.0-2011-02-17	1102218-11	0221811.D	02/28/11 17:27
LCS Dup	1B28003-BSD1	0228LD1.D	02/28/11 18:39

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06108	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06108-TUN1	0301TUN1.D	03/01/11 08:38
Calibration Check	1C06108-CCV1	0301CCV1.D	03/01/11 09:02
LCS	1C01010-BS1	0301LS1.D	03/01/11 09:44
Blank	1C01010-BLK1	0301BL1.D	03/01/11 10:56
MPT-1343-SS9-4.5-2011-02-17	1102218-12RE1	0221812.D	03/01/11 12:32
MPT-1343-SS10-2.0-2011-02-18	1102218-14	0221814.D	03/01/11 12:56
MPT-1343-SS10-4.0-2011-02-18	1102218-15	0221815.D	03/01/11 13:20
MPT-1343-SS10-4.5-2011-02-18	1102218-16	0221816.D	03/01/11 13:44
MPT-1343-SS11-4.5-2011-02-18	1102218-20	0221820.D	03/01/11 14:56
LCS Dup	1C01010-BSD1	0301LD1.D	03/01/11 17:20

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06201	Instrument:	MS-VOA6
Calibration:	1045002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06201-TUN1	0302TUN1.D	03/02/11 11:16
Calibration Check	1C06201-CCV1	0302CCV1.D	03/02/11 13:08
LCS	1C02015-BS1	0302LS1.D	03/02/11 14:07
Blank	1C02015-BLK1	0302BL1.D	03/02/11 15:43
MPT-1343-SS11-2.0-2011-02-18	1102218-18RE1	0221818.D	03/02/11 16:31
MPT-1343-SS11-4.0-2011-02-18	1102218-19RE1	0221819.D	03/02/11 16:55
LCS Dup	1C02015-BSD1	0302LSD1.D	03/02/11 17:43

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1B05903
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05903-CCV1)			Lab File ID: 0226CCV1.D			Analyzed: 02/26/11 10:38			
Fluorobenzene	853049	7.953	972174	7.931	88	50 - 200	0.0220	+/-0.50	
Chlorobenzene-d5	378508	11.061	431704	11.049	88	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	351633	13.451	423574	13.439	83	50 - 200	0.0120	+/-0.50	
LCS (1B26001-BS1)			Lab File ID: 0226LS1.D			Analyzed: 02/26/11 11:13			
Fluorobenzene	845160	7.953	853049	7.953	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	388152	11.061	378508	11.061	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	344818	13.451	351633	13.451	98	50 - 200	0.0000	+/-0.50	
Blank (1B26001-BLK1)			Lab File ID: 0226BL1.D			Analyzed: 02/26/11 12:25			
Fluorobenzene	748835	7.958	853049	7.953	88	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	339182	11.065	378508	11.061	90	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	306821	13.455	351633	13.451	87	50 - 200	0.0040	+/-0.50	
MPT-1343-SS7-2.0-2011-02-17 (1102218-02)			Lab File ID: 0221802.D			Analyzed: 02/26/11 16:25			
Fluorobenzene	830824	7.959	853049	7.953	97	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	364473	11.066	378508	11.061	96	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	340435	13.456	351633	13.451	97	50 - 200	0.0050	+/-0.50	
MPT-1343-SS7-4.0-2011-02-17 (1102218-03)			Lab File ID: 0221803.D			Analyzed: 02/26/11 16:49			
Fluorobenzene	793875	7.962	853049	7.953	93	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	338971	11.06	378508	11.061	90	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	298707	13.45	351633	13.451	85	50 - 200	-0.0010	+/-0.50	
MPT-1343-SS7-4.5-2011-02-17 (1102218-04)			Lab File ID: 0221804.D			Analyzed: 02/26/11 17:13			
Fluorobenzene	777385	7.958	853049	7.953	91	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	339819	11.066	378508	11.061	90	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	301595	13.456	351633	13.451	86	50 - 200	0.0050	+/-0.50	
MPT-1343-SS8-2.0-2011-02-17 (1102218-06)			Lab File ID: 0221806.D			Analyzed: 02/26/11 17:37			
Fluorobenzene	765467	7.959	853049	7.953	90	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	339978	11.067	378508	11.061	90	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	316908	13.457	351633	13.451	90	50 - 200	0.0060	+/-0.50	
MPT-1343-SS8-4.0-2011-02-17 (1102218-07)			Lab File ID: 0221807.D			Analyzed: 02/26/11 18:01			
Fluorobenzene	651846	7.952	853049	7.953	76	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	298936	11.06	378508	11.061	79	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	273514	13.46	351633	13.451	78	50 - 200	0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06001
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06001-CCV1)			Lab File ID: 0228CCV1.D			Analyzed: 02/28/11 07:31			
Fluorobenzene	847114	7.968	972174	7.931	87	50 - 200	0.0370	+/-0.50	
Chlorobenzene-d5	379762	11.066	431704	11.049	88	50 - 200	0.0170	+/-0.50	
1,4-Dichlorobenzene-d4	354045	13.456	423574	13.439	84	50 - 200	0.0170	+/-0.50	
LCS (1B28003-BS1)			Lab File ID: 0228LS1.D			Analyzed: 02/28/11 08:09			
Fluorobenzene	823185	7.968	847114	7.968	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	380234	11.066	379762	11.066	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	337257	13.456	354045	13.456	95	50 - 200	0.0000	+/-0.50	
Blank (1B28003-BLK1)			Lab File ID: 0228BL1.D			Analyzed: 02/28/11 09:21			
Fluorobenzene	720701	7.962	847114	7.968	85	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	340344	11.07	379762	11.066	90	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	306124	13.46	354045	13.456	86	50 - 200	0.0040	+/-0.50	
MPT-1343-SS8-4.5-2011-02-17 (1102218-08)			Lab File ID: 0221808.D			Analyzed: 02/28/11 16:39			
Fluorobenzene	732511	7.948	847114	7.968	86	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	323571	11.056	379762	11.066	85	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	260379	13.446	354045	13.456	74	50 - 200	-0.0100	+/-0.50	
MPT-1343-SS9-2.0-2011-02-17 (1102218-10)			Lab File ID: 0221810.D			Analyzed: 02/28/11 17:03			
Fluorobenzene	678373	7.943	847114	7.968	80	50 - 200	-0.0250	+/-0.50	
Chlorobenzene-d5	305159	11.061	379762	11.066	80	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	237579	13.451	354045	13.456	67	50 - 200	-0.0050	+/-0.50	
MPT-1343-SS9-4.0-2011-02-17 (1102218-11)			Lab File ID: 0221811.D			Analyzed: 02/28/11 17:27			
Fluorobenzene	664723	7.963	847114	7.968	78	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	297739	11.061	379762	11.066	78	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	208828	13.451	354045	13.456	59	50 - 200	-0.0050	+/-0.50	
LCS Dup (1B28003-BSD1)			Lab File ID: 0228LD1.D			Analyzed: 02/28/11 18:39			
Fluorobenzene	724658	7.953	847114	7.968	86	50 - 200	-0.0150	+/-0.50	
Chlorobenzene-d5	341175	11.051	379762	11.066	90	50 - 200	-0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	299649	13.441	354045	13.456	85	50 - 200	-0.0150	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1C06108

SDG: CTOJM33_008
Project: NAS Mayport CTO JM33 2010
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06108-CCV1)			Lab File ID: 0301CCV1.D			Analyzed: 03/01/11 09:02			
Fluorobenzene	812927	7.937	972174	7.931	84	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	335140	11.045	431704	11.049	78	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	317936	13.444	423574	13.439	75	50 - 200	0.0050	+/-0.50	
LCS (1C01010-BS1)			Lab File ID: 0301LS1.D			Analyzed: 03/01/11 09:44			
Fluorobenzene	817453	7.939	812927	7.937	101	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	361970	11.047	335140	11.045	108	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	320955	13.437	317936	13.444	101	50 - 200	-0.0070	+/-0.50	
Blank (1C01010-BLK1)			Lab File ID: 0301BL1.D			Analyzed: 03/01/11 10:56			
Fluorobenzene	718422	7.933	812927	7.937	88	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	318467	11.051	335140	11.045	95	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	287008	13.441	317936	13.444	90	50 - 200	-0.0030	+/-0.50	
MPT-1343-SS9-4.5-2011-02-17 (1102218-12RE1)			Lab File ID: 0221812.D			Analyzed: 03/01/11 12:32			
Fluorobenzene	760721	7.942	812927	7.937	94	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	283693	11.05	335140	11.045	85	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	192907	13.44	317936	13.444	61	50 - 200	-0.0040	+/-0.50	
MPT-1343-SS10-2.0-2011-02-18 (1102218-14)			Lab File ID: 0221814.D			Analyzed: 03/01/11 12:56			
Fluorobenzene	755410	7.943	812927	7.937	93	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	314734	11.051	335140	11.045	94	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	269023	13.441	317936	13.444	85	50 - 200	-0.0030	+/-0.50	
MPT-1343-SS10-4.0-2011-02-18 (1102218-15)			Lab File ID: 0221815.D			Analyzed: 03/01/11 13:20			
Fluorobenzene	412587	7.947	812927	7.937	51	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	170444	11.055	335140	11.045	51	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	141113	13.445	317936	13.444	44	50 - 200	0.0010	+/-0.50	*
MPT-1343-SS10-4.5-2011-02-18 (1102218-16)			Lab File ID: 0221816.D			Analyzed: 03/01/11 13:44			
Fluorobenzene	701497	7.942	812927	7.937	86	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	299582	11.05	335140	11.045	89	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	248607	13.44	317936	13.444	78	50 - 200	-0.0040	+/-0.50	
MPT-1343-SS11-4.5-2011-02-18 (1102218-20)			Lab File ID: 0221820.D			Analyzed: 03/01/11 14:56			
Fluorobenzene	679727	7.943	812927	7.937	84	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	294060	11.05	335140	11.045	88	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	264030	13.44	317936	13.444	83	50 - 200	-0.0040	+/-0.50	
LCS Dup (1C01010-BSD1)			Lab File ID: 0301LD1.D			Analyzed: 03/01/11 17:20			
Fluorobenzene	737664	7.943	812927	7.937	91	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	330857	11.051	335140	11.045	99	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	288369	13.441	317936	13.444	91	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06201
Instrument: MS-VOA6
Calibration: 1045002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06201-CCV1)			Lab File ID: 0302CCV1.D			Analyzed: 03/02/11 13:08			
Fluorobenzene	838127	7.952	972174	7.931	86	50 - 200	0.0210	+/-0.50	
Chlorobenzene-d5	333695	11.05	431704	11.049	77	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	320741	13.45	423574	13.439	76	50 - 200	0.0110	+/-0.50	
LCS (1C02015-BS1)			Lab File ID: 0302LS1.D			Analyzed: 03/02/11 14:07			
Fluorobenzene	767348	7.937	838127	7.952	92	50 - 200	-0.0150	+/-0.50	
Chlorobenzene-d5	336877	11.054	333695	11.05	101	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	301195	13.444	320741	13.45	94	50 - 200	-0.0060	+/-0.50	
Blank (1C02015-BLK1)			Lab File ID: 0302BL1.D			Analyzed: 03/02/11 15:43			
Fluorobenzene	693170	7.948	838127	7.952	83	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	303991	11.056	333695	11.05	91	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	269434	13.446	320741	13.45	84	50 - 200	-0.0040	+/-0.50	
MPT-1343-SS11-2.0-2011-02-18 (1102218-18RE1)			Lab File ID: 0221818.D			Analyzed: 03/02/11 16:31			
Fluorobenzene	680985	7.938	838127	7.952	81	50 - 200	-0.0140	+/-0.50	
Chlorobenzene-d5	292958	11.046	333695	11.05	88	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	252654	13.445	320741	13.45	79	50 - 200	-0.0050	+/-0.50	
MPT-1343-SS11-4.0-2011-02-18 (1102218-19RE1)			Lab File ID: 0221819.D			Analyzed: 03/02/11 16:55			
Fluorobenzene	677012	7.95	838127	7.952	81	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	300539	11.048	333695	11.05	90	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	254523	13.437	320741	13.45	79	50 - 200	-0.0130	+/-0.50	
LCS Dup (1C02015-BSD1)			Lab File ID: 0302LSD1.D			Analyzed: 03/02/11 17:43			
Fluorobenzene	729153	7.943	838127	7.952	87	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	323672	11.051	333695	11.05	97	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	293470	13.441	320741	13.45	91	50 - 200	-0.0090	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	10	3.756483E-02	25.01	3.592496E-02	50.02	3.279747E-02	100	3.027563E-02	250.1	2.616578E-02	500.2	2.836008E-02
Acrylonitrile	9.996	7.751938E-02	24.99	6.934293E-02	49.98	0.1036364	99.96	6.371372E-02	249.9	9.483173E-02	499.8	0.1038235
Benzene	2	1.061782	5	1.085753	10	1.07756	20	1.101538	50	1.062681	100	1.168729
Bromobenzene	2	0.7470029	5	0.690608	10	0.73579	20	0.7029826	50	0.6759098	100	0.7159262
Bromochloromethane	2	0.1531184	5	0.1481263	10	0.1471181	20	0.1476266	50	0.1386942	100	0.1478994
Tert-Amyl Methyl Ether	2	0.7507538	5	0.7660239	10	0.7592371	20	0.7607483	50	0.7115281	100	0.7910823
Bromodichloromethane	2	0.3104988	5	0.3071958	10	0.3190153	20	0.3117362	50	0.3116093	100	0.3449616
Bromoform	2	~~0.2616829~~	5	0.2798085	10	0.3012296	20	0.3115155	50	0.3087993	100	0.3759775
Bromomethane	2	~~7.371335E-02~~	5	7.750693E-02	10	8.466907E-02	20	8.624543E-02	50	0.0937419	100	0.1153427
Bromofluorobenzene	30	0.8301043	30	0.849826	30	0.8264607	30	0.8153727	30	0.7890826	30	0.8544657
n-Butylbenzene	2	2.785165	5	2.617003	10	2.816419	20	2.750954	50	2.622143	100	2.894858
2-Butanone												
sec-Butylbenzene	2	3.151285	5	3.066315	10	3.323505	20	3.301126	50	3.202842	100	3.459591
tert-Butylbenzene	2	2.17391	5	2.031212	10	2.135985	20	2.119383	50	2.039649	100	2.229972
Carbon disulfide	2	0.7149891	5	0.6924307	10	0.7993255	20	0.5551867	50	0.8103692	100	0.9498407
Carbon tetrachloride	2	0.2889103	5	0.2860839	10	0.288463	20	0.3030137	50	0.3080328	100	0.35016
Chlorobenzene	2	1.875558	5	1.771786	10	1.803756	20	1.765153	50	1.690779	100	1.905895
Chloroethane	2	8.705562E-02	5	7.229842E-02	10	8.957504E-02	20	8.400356E-02	50	8.288075E-02	100	8.787256E-02
Chloroform	2	0.4898649	5	0.4751689	10	0.4707317	20	0.4865336	50	0.457359	100	0.5020879
2-Chloroethyl vinyl ether	3.99	0.1848713	9.975	0.1784075	19.95	0.1770296	39.9	0.1763524	99.75	0.1619434	199.5	0.1744515
Chloromethane	2	0.35766	5	0.3572945	10	0.3695839	20	0.3693712	50	0.3945523	100	0.3919691
1-Chlorohexane	2.004	2.22108	5.01	2.023071	10.02	2.169874	20.04	2.118177	50.1	2.018756	100.2	2.112281
2-Chlorotoluene	2	2.026203	5	2.003491	10	2.116461	20	2.10787	50	1.979201	100	2.20004
4-Chlorotoluene	2	2.219507	5	2.256409	10	2.307302	20	2.295402	50	2.228706	100	2.424602
Cyclohexane	2	0.7461476	5	0.6373068	10	0.6643557	20	0.6754938	50	0.6609604	100	0.711204
Dibromochloromethane	2	0.4664542	5	0.4878683	10	0.5045771	20	0.5001025	50	0.4934865	100	0.5950801
1,2-Dibromo-3-chloropropane	2	0.11204	5	0.1045764	10	0.1082321	20	0.1108009	50	0.1044906	100	0.1137534
1,2-Dibromoethane (EDB)	2	0.6004558	5	0.5329797	10	0.4938069	20	0.4902496	50	0.458391	100	0.515838
Dibromomethane	2	0.1753952	5	0.1633735	10	0.1759811	20	0.1750685	50	0.1642084	100	0.1767537
1,2-Dichlorobenzene	2	1.25758	5	1.158089	10	1.202775	20	1.190451	50	1.107789	100	1.182512

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Calibration: 1045002

Instrument: MS-VOA6

Matrix: Water

Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	2	1.313197	5	1.280567	10	1.331553	20	1.320101	50	1.222079	100	1.308105
1,4-Dichlorobenzene	2	1.397145	5	1.336716	10	1.321149	20	1.291749	50	1.239289	100	1.30013
Dichlorodifluoromethane	2	0.2899824	5	0.2433753	10	0.2462849	20	0.2339546	50	0.2969228	100	0.3137854
1,1-Dichloroethane	2	0.5414735	5	0.5528414	10	0.6051287	20	0.5926146	50	0.5757458	100	0.6148422
1,2-Dichloroethane	2	0.293543	5	0.2842689	10	0.2959148	20	0.2875738	50	0.2714845	100	0.3087262
1,1-Dichloroethene	2	~~0.1672813~~	5	0.1708818	10	0.2138923	20	0.1881977	50	0.2206685	100	0.2484578
cis-1,2-Dichloroethene	2	0.3114254	5	0.3106307	10	0.3209246	20	0.3086273	50	0.3079395	100	0.3264114
trans-1,2-Dichloroethene	2	0.2866469	5	0.2498845	10	0.2830028	20	0.2781287	50	0.2772549	100	0.3027944
1,2-Dichloroethene (total)	4	0.2990361	10	0.2802576	20	0.3019637	40	0.293378	100	0.2925972	200	0.3146029
1,2-Dichloropropane	2	0.3763763	5	0.3682909	10	0.365142	20	0.3629965	50	0.3481348	100	0.3742469
1,3-Dichloropropane	2	0.879273	5	0.7939543	10	0.8081485	20	0.7899708	50	0.73429	100	0.8173957
2,2-Dichloropropane	2	0.3242779	5	0.3285206	10	0.3349875	20	0.3345004	50	0.3213804	100	0.3729991
1,1-Dichloropropene	2	0.3884081	5	0.3484738	10	0.3805441	20	0.3847533	50	0.3792585	100	0.4104046
cis-1,3-Dichloropropene	2	0.4344839	5	0.4350143	10	0.4301103	20	0.4335544	50	0.4170583	100	0.4573277
trans-1,3-Dichloropropene	2	0.7683201	5	0.7138107	10	0.7232023	20	0.7117684	50	0.6927822	100	0.7933086
Diisopropyl Ether	2	1.643891	5	1.595466	10	1.621821	20	1.620216	50	1.573697	100	1.707769
Ethylbenzene	2	3.006193	5	2.923263	10	3.07896	20	3.067902	50	2.95293	100	3.41056
Ethyl tert-Butyl Ether	2	0.9974004	5	0.9712783	10	0.9963493	20	0.9846551	50	0.9564952	100	1.075788
Ethyl Methacrylate	2	0.8625155	5	0.8436295	10	0.7624561	20	0.7667309	50	0.7163738	100	0.8089864
Hexachlorobutadiene	2	0.4575836	5	0.4341365	10	0.4659515	20	0.4715648	50	0.4532541	100	0.5045612
2-Hexanone												
Iodomethane	2	0.248407	5	0.2548802	10	0.3049656	20	0.279838	50	0.3250018	100	0.3519559
Isopropylbenzene	2	2.294059	5	2.285611	10	2.452665	20	2.37677	50	2.275532	100	2.581928
p-Isopropyltoluene	2	2.309628	5	2.135441	10	2.337972	20	2.332356	50	2.269986	100	2.487688
Methylene chloride	2	0.7552542	5	0.4559193	10	0.3996641	20	0.2317498	50	0.2907731	100	0.3130779
Methyl Acetate	2	0.2236285	5	0.2514748	10	0.2597989	20	0.1718908	50	0.2310738	100	0.2529856
Methylcyclohexane	2	0.5012217	5	0.4741875	10	0.5071525	20	0.5214485	50	0.502103	100	0.5426753
Naphthalene	2	1.780473	5	1.614442	10	1.578626	20	1.557813	50	1.429284	100	1.560273
Methyl Methacrylate	2	0.48326	5	0.4803774	10	0.4711374	20	0.4626519	50	0.4558675	100	0.4859491
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	2	0.5759807	5	0.5826558	10	0.5951922	20	0.5754943	50	0.5694992	100	0.638687

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	2	3.79603	5	3.545272	10	3.80743	20	3.780267	50	3.661068	100	4.13336
Styrene	2	1.927309	5	1.80957	10	1.873548	20	1.872612	50	1.750939	100	1.970078
1,1,2,2-Tetrachloroethane	2	0.6828267	5	0.7255559	10	0.7090542	20	0.6776878	50	0.6315376	100	0.71698
1,1,1,2-Tetrachloroethane	2	0.6138791	5	0.5872829	10	0.6046367	20	0.6078519	50	0.5767041	100	0.6580373
tert-Butyl alcohol	10	3.247147E-02	25	2.832816E-02	50	2.641692E-02	100	2.675249E-02	250	2.407234E-02	500	2.525515E-02
Tetrachloroethene	2	0.6411317	5	0.5516078	10	0.6071488	20	0.5940988	50	0.5687704	100	0.6485346
Toluene	2	1.653855	5	1.500784	10	1.608872	20	1.546331	50	1.509546	100	1.656163
1,2,3-Trichlorobenzene	2	0.7095767	5	0.7003469	10	0.7116627	20	0.6956501	50	0.6350796	100	0.6810502
1,2,4-Trichlorobenzene	2	0.8162488	5	0.7952111	10	0.7953906	20	0.7745676	50	0.7371004	100	0.7827231
1,1,2-Trichloroethane	2	0.5007809	5	0.4659105	10	0.4662858	20	0.4427537	50	0.416613	100	0.4616935
1,1,1-Trichloroethane	2	0.3368524	5	0.3178967	10	0.3316859	20	0.3398842	50	0.3373299	100	0.3698448
Tetrahydrofuran	2	0.2155278	5	0.1543103	10	0.118979	20	0.1078508	50	9.851796E-02	100	0.1062613
Trichloroethene	2	0.328765	5	0.2905771	10	0.2943873	20	0.3047147	50	0.2969598	100	0.3201752
Trichlorofluoromethane	2	0.4417375	5	0.4173432	10	0.4186727	20	0.4473662	50	0.4334278	100	0.4536805
1,2,3-Trichloropropane	2	0.1627907	5	0.1329942	10	0.134935	20	0.1426108	50	0.1239256	100	0.1396684
1,3,5-Trimethylbenzene	2	2.255114	5	2.173421	10	2.276182	20	2.202211	50	2.172413	100	2.372903
1,2,4-Trimethylbenzene	2	2.309479	5	2.14176	10	2.199332	20	2.211839	50	2.158688	100	2.3911
1,1,2-Trichloro-1,2,2-trifluoroethan	2	0.268791	5	0.2260116	10	0.2709447	20	0.2430542	50	0.2542092	100	0.2843963
Vinyl chloride	2	0.2231652	5	0.1838824	10	0.1648936	20	0.1664933	50	0.2255206	100	0.2109722
m,p-Xylene	4	2.356566	10	2.201289	20	2.300586	40	2.335069	100	2.271009	200	2.481994
o-Xylene	2	2.296002	5	2.225227	10	2.338918	20	2.313981	50	2.173523	100	2.494403
Vinyl acetate	3.998	0.4521423	9.995	0.4534324	19.99	0.4418868	39.98	0.4271593	99.95	0.4198531	199.9	0.4560466
Xylenes (total)	6	2.336378	15	2.209268	30	2.313363	60	2.328039	150	2.238513	300	2.48613
Dibromofluoromethane	30	0.2988129	30	0.2996363	30	0.2905854	30	0.2955724	30	0.2971521	30	0.3075259
1,2-Dichloroethane-d4	30	5.968633E-02	30	5.947716E-02	30	5.530486E-02	30	5.696298E-02	30	5.913587E-02	30	0.0591198
Toluene-d8	30	2.123717	30	2.131698	30	2.11596	30	2.034826	30	2.028679	30	2.169641
tert-Amyl alcohol	10	2.774079E-02	25	0.0266787	50	2.668582E-02	100	2.719233E-02	250	2.468558E-02	500	2.532327E-02
tert-Amyl ethyl ether	2	0.8583258	5	0.850034	10	0.8687331	20	0.8675918	50	0.8495265	100	0.9293077

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone					4	8.470745E-02	10	8.915309E-02	20	8.285134E-02	40	7.250014E-02
Acrolein	750.3	2.838079E-02	1000	2.600032E-02								
Acrylonitrile	749.7	0.1024932	999.6	9.546004E-02								
Benzene	150	1.192145	200	1.155082								
Bromobenzene	150	0.7302519	200	0.7329693								
Bromochloromethane	150	0.1491289	200	0.1443947								
Tert-Amyl Methyl Ether	150	0.807724	200	0.7867898								
Bromodichloromethane	150	0.3531789	200	0.3510862								
Bromoform	150	0.4028367	200	~~0.4128355~~								
Bromomethane	150	0.1015578	200	0.1000582								
Bromofluorobenzene	30	0.8640198	30	0.8813654								
n-Butylbenzene	150	2.870467	200	2.722726								
2-Butanone					4	0.1330208	10	0.1701131	20	0.1749022	40	0.1609534
sec-Butylbenzene	150	3.480445	200	3.296109								
tert-Butylbenzene	150	2.240936	200	2.192407								
Carbon disulfide	150	0.9301783	200	0.8994057								
Carbon tetrachloride	150	0.3521533	200	0.338749								
Chlorobenzene	150	2.022008	200	2.042233								
Chloroethane	150	8.393602E-02	200	8.074598E-02								
Chloroform	150	0.5073668	200	0.4925365								
2-Chloroethyl vinyl ether	299.2	0.1762279	399	0.1688767								
Chloromethane	150	0.3887158	200	0.3704813								
1-Chlorohexane	150.3	2.01726	200.4	1.885388								
2-Chlorotoluene	150	2.239528	200	2.201793								
4-Chlorotoluene	150	2.466821	200	2.43551								
Cyclohexane	150	0.7164013	200	0.6757709								
Dibromochloromethane	150	0.6469215	200	0.6589571								
1,2-Dibromo-3-chloropropane	150	0.1180717	200	0.1164974								
1,2-Dibromoethane (EDB)	150	0.5513408	200	0.5571805								
Dibromomethane	150	0.1775397	200	0.1716395								
1,2-Dichlorobenzene	150	1.205745	200	1.236032								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	150	1.326823	200	1.310985								
1,4-Dichlorobenzene	150	1.329174	200	1.311361								
Dichlorodifluoromethane	150	0.294192	200	0.2759141								
1,1-Dichloroethane	150	0.6166086	200	0.5947691								
1,2-Dichloroethane	150	0.3026457	200	0.3034343								
1,1-Dichloroethene	150	0.1785913	200	~~0.2416956~~								
cis-1,2-Dichloroethene	150	0.3297915	200	0.3192484								
trans-1,2-Dichloroethene	150	0.2978576	200	0.2889025								
1,2-Dichloroethene (total)	300	0.3138245	400	0.3040755								
1,2-Dichloropropane	150	0.3778939	200	0.3725401								
1,3-Dichloropropane	150	0.8986319	200	0.8784469								
2,2-Dichloropropane	150	0.3617797	200	0.3482468								
1,1-Dichloropropene	150	0.4099157	200	0.3932496								
cis-1,3-Dichloropropene	150	0.469431	200	0.4523565								
trans-1,3-Dichloropropene	150	0.8248023	200	0.802177								
Diisopropyl Ether	150	1.730807	200	1.694548								
Ethylbenzene	150	3.651297	200	3.573134								
Ethyl tert-Butyl Ether	150	1.079763	200	1.057801								
Ethyl Methacrylate	150	0.8710207	200	0.8578263								
Hexachlorobutadiene	150	0.4984486	200	0.5033677								
2-Hexanone					4	0.649287	10	0.637436	20	0.6198641	40	0.6138946
Iodomethane	150	0.3500682	200	~~0.3742377~~								
Isopropylbenzene	150	2.784682	200	2.727285								
p-Isopropyltoluene	150	2.44157	200	2.332893								
Methylene chloride	150	0.309667	200	0.3027675								
Methyl Acetate	150	0.2510632	200	~~0.223989~~								
Methylcyclohexane	150	0.5392906	200	0.5146507								
Naphthalene	150	1.643224	200	1.657041								
Methyl Methacrylate	150	0.4831825	200	0.4512382								
4-Methyl-2-pentanone					4	0.3733068	10	0.4147558	20	0.3954946	40	0.3765838
Methyl t-Butyl Ether	150	0.6360249	200	0.6284265								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	150	4.002939	200	3.703082								
Styrene	150	2.111887	200	2.10262								
1,1,2,2-Tetrachloroethane	150	0.6980061	200	0.6850432								
1,1,1,2-Tetrachloroethane	150	0.7068497	200	0.7111916								
tert-Butyl alcohol	750	2.532031E-02	1000	2.506596E-02								
Tetrachloroethene	150	0.6992434	200	0.6850495								
Toluene	150	1.706061	200	1.604325								
1,2,3-Trichlorobenzene	150	0.7278232	200	0.7516194								
1,2,4-Trichlorobenzene	150	0.8125712	200	0.8332477								
1,1,2-Trichloroethane	150	0.4953458	200	0.4956092								
1,1,1-Trichloroethane	150	0.3669203	200	0.3572786								
Tetrahydrofuran	150	0.1030719	200	9.688072E-02								
Trichloroethene	150	0.3226635	200	0.3110056								
Trichlorofluoromethane	150	0.4505598	200	0.3669905								
1,2,3-Trichloropropane	150	0.1471629	200	0.1448242								
1,3,5-Trimethylbenzene	150	2.367285	200	2.354633								
1,2,4-Trimethylbenzene	150	2.425007	200	2.350211								
1,1,2-Trichloro-1,2,2-trifluoroethan	150	0.2343912	200	0.2778142								
Vinyl chloride	150	0.1769872	200	0.1586922								
m,p-Xylene	300	2.402223	400	2.220402								
o-Xylene	150	2.704775	200	2.61654								
Vinyl acetate	299.8	0.4630155	399.8	0.4347041								
Xylenes (total)	450	2.503073	600	2.352449								
Dibromofluoromethane	30	0.3024829	30	0.301783								
1,2-Dichloroethane-d4	30	5.607005E-02	30	0.0572409								
Toluene-d8	30	2.255154	30	2.324347								
tert-Amyl alcohol	750	2.609744E-02	1000	2.452795E-02								
tert-Amyl ethyl ether	150	0.9427317	200	0.9137197								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	100	6.862368E-02	200	0.071894	300	7.060606E-02	400	6.814481E-02				
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	100	0.1617353	200	0.1751666	300	0.1783483	400	0.1715294				
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	100	0.5779477	200	0.6258995	300	0.6538966	400	0.6288518				
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	100	0.3698155	200	0.3970651	300	0.4166396	400	0.4044311				
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	7.606007E-02	10.77375	3.791625	0.2559776			15	
Acrolein	3.068373E-02	14.17936	3.687375	0.266829			15	
Acrylonitrile	8.885261E-02	18.29246	4.637625	0.1611173	0.9961602		0.995	
Benzene	1.113159	4.608946	7.67675	4.449891E-02			15	
Bromobenzene	0.7164301	3.444919	12.40125	2.882236E-02			15	
Bromochloromethane	0.1470133	2.818947	6.77675	6.962075E-02			15	
Tert-Amyl Methyl Ether	0.7667359	3.84088	7.868625	0.0369654			15	
Bromodichloromethane	0.3261603	6.110637	8.6565	0.0395075			15	
Bromoform	0.3300278	14.56769	11.81133	3.114238E-02			SPCC (0.1)	
Bromomethane	9.416029E-02	13.49252	2.841429	0.3399494			15	
Bromofluorobenzene	0.8388372	3.508578	12.24	0.0295681			15	
n-Butylbenzene	2.759967	3.753642	13.82862	1.990092E-02			15	
2-Butanone	0.1657211	8.815262	6.23675	9.832357E-02			15	
sec-Butylbenzene	3.285152	4.35073	13.29013	3.345705E-02			15	
tert-Butylbenzene	2.145432	3.707538	13.05663	2.013395E-02			15	
Carbon disulfide	0.7939658	17.02013	4.8035	0.1982975	0.9975385		0.995	
Carbon tetrachloride	0.3144458	8.98804	7.644625	5.435293E-02			15	
Chlorobenzene	1.859646	6.752518	11.08463	2.703025E-02			SPCC (0.3)	
Chloroethane	8.354599E-02	6.438411	2.97925	0.3520969			15	
Chloroform	0.4852062	3.430147	6.7485	5.313365E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.17477	3.894887	9.0105	4.037457E-02			15	
Chloromethane	0.3749535	3.973692	2.239125	0.4681154			SPCC (0.1)	
1-Chlorohexane	2.070736	5.11712	11.051	3.853776E-02			15	
2-Chlorotoluene	2.109323	4.700997	12.6225	3.341376E-02			15	
4-Chlorotoluene	2.329282	4.243641	12.68525	2.421974E-02			15	
Cyclohexane	0.685955	5.186082	7.5735	5.633159E-02			15	
Dibromochloromethane	0.5441809	14.16857	10.3225	3.125264E-02			15	
1,2-Dibromo-3-chloropropane	0.1110578	4.56858	14.43113	0.0227997			15	
1,2-Dibromoethane (EDB)	0.5250303	8.57485	10.53375	2.690444E-02			15	
Dibromomethane	0.172495	3.274856	8.595125	3.800596E-02			15	
1,2-Dichlorobenzene	1.192622	3.865282	13.789	1.366507E-02			15	
1,3-Dichlorobenzene	1.301676	2.74033	13.3795	3.011168E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.315839	3.393764	13.47213	2.224884E-02			15	
Dichlorodifluoromethane	0.2743014	10.74781	2.016625	0.5619011			15	
1,1-Dichloroethane	0.586753	4.750245	5.793375	7.525912E-02			SPCC (0.1)	
1,2-Dichloroethane	0.2934489	4.123627	7.505875	5.038248E-02			15	
1,1-Dichloroethene	0.2034482	14.48541	4.277667	0.1728932			CCC (20)	
cis-1,2-Dichloroethene	0.3168749	2.657418	6.4965	8.574096E-02			15	
trans-1,2-Dichloroethene	0.283059	5.687211	5.419625	8.226152E-02			15	
1,2-Dichloroethene (total)	0.2999669	3.809693	0	0			15	
1,2-Dichloropropane	0.3682027	2.627754	8.4795	4.454179E-02			CCC (20)	
1,3-Dichloropropane	0.8250139	6.792829	10.06175	0.0225482			15	
2,2-Dichloropropane	0.3408366	5.440234	6.602125	6.320189E-02			15	
1,1-Dichloropropene	0.386876	5.080917	7.524375	0.0579442			15	
cis-1,3-Dichloropropene	0.441167	3.859299	9.22575	3.273881E-02			15	
trans-1,3-Dichloropropene	0.7537714	6.572131	9.69775	2.998173E-02			15	
Diisopropyl Ether	1.648527	3.427531	6.164375	8.144213E-02			15	
Ethylbenzene	3.20803	9.080474	11.2305	3.248409E-02			CCC (20)	
Ethyl tert-Butyl Ether	1.014941	4.802987	6.624375	5.856448E-02			15	
Ethyl Methacrylate	0.8111924	7.03362	9.88475	3.023834E-02			15	
Hexachlorobutadiene	0.4736085	5.501745	15.78825	2.462656E-02			15	
2-Hexanone	0.6258846	3.796589	9.999875	5.270258E-02			15	
Iodomethane	0.3021595	14.1237	4.468714	0.194976			15	
Isopropylbenzene	2.472317	8.225239	12.12925	2.846195E-02			15	
p-Isopropyltoluene	2.330942	4.564871	13.4265	0.02919			15	
Methylene chloride	0.3823591	43.34252	4.754375	0.1602236	0.9983757		0.995	
Methyl Acetate	0.2345594	13.01771	4.628714	0.1631094			15	
Methylcyclohexane	0.5128412	4.32501	8.80775	0.0356778			15	
Naphthalene	1.602647	6.275391	15.66025	1.983775E-02			15	
Methyl Methacrylate	0.471708	2.883842	7.5735	5.633159E-02			15	
4-Methyl-2-pentanone	0.3935115	4.684102	9.15025	7.573038E-02			15	
Methyl t-Butyl Ether	0.6002451	4.891206	5.423375	0.1227064			15	
n-Propylbenzene	3.803681	4.930978	12.5375	2.980661E-02			15	
Styrene	1.92732	6.721793	11.704	2.493567E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1045002
Instrument: MS-VOA6
Matrix: Water
Calibration Date: 2/8/2011 4:35:18PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6908364	4.258784	12.05575	3.119017E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6333042	8.281663	11.1275	3.464365E-02			15	
tert-Butyl alcohol	2.671035E-02	9.966665	4.427375	0.2216083			15	
Tetrachloroethene	0.6244481	8.506563	10.43312	3.100488E-02			15	
Toluene	1.598242	4.627079	9.70025	4.291451E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.7016011	4.889794	15.94525	2.154844E-02			15	
1,2,4-Trichlorobenzene	0.7933826	3.727781	15.508	1.845566E-02			15	
1,1,2-Trichloroethane	0.468124	6.206816	9.8525	3.322686E-02			15	
1,1,1-Trichloroethane	0.3447116	5.271122	7.3065	4.409785E-02			15	
Tetrahydrofuran	0.125175	32.67256	6.962375	9.085995E-02	0.9977438		0.995	
Trichloroethene	0.308656	4.617016	8.43125	5.007405E-02			15	
Trichlorofluoromethane	0.4287223	6.644425	3.48675	0.268437			15	
1,2,3-Trichloropropane	0.141114	8.142237	12.1785	2.715286E-02			15	
1,3,5-Trimethylbenzene	2.27177	3.75346	12.7145	2.609472E-02			15	
1,2,4-Trimethylbenzene	2.273427	4.81283	13.08825	1.976355E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2574515	8.290995	4.35	0.1908188			15	
Vinyl chloride	0.1888258	14.37893	2.38775	0.3384152			CCC (20)	
m,p-Xylene	2.321142	4.033096	11.34387	3.895987E-02			15	
o-Xylene	2.395421	7.925602	11.73375	4.033886E-02			15	
Vinyl acetate	0.44353	3.427564	5.86575	0.0758661			15	
Xylenes (total)	2.345902	4.444014	0	0			15	
Dibromofluoromethane	0.2991939	1.6886	6.921875	7.311495E-02			15	
1,2-Dichloroethane-d4	5.787474E-02	2.926794	7.41575	6.396857E-02			15	
Toluene-d8	2.148003	4.720766	9.625	2.169328E-02			15	
tert-Amyl alcohol	2.611649E-02	4.492563	7.122	5.407818E-02			15	
tert-Amyl ethyl ether	0.8849963	4.245319	8.745	4.184207E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	208ICV1A.D	Calibration Date:	02/08/11 16:35
Sequence:	1B04025	Injection Date:	02/09/11
Lab Sample ID:	1B04025-ICV1	Injection Time:	07:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	104.0	1.113159	1.157594		4.0	20
Ethylbenzene	A	100.0	104.9	3.20803	3.364976		4.9	20
Methyl t-Butyl Ether	A	200.0	214.0	0.6002451	0.6421448		7.0	20
Toluene	A	100.0	104.5	1.598242	1.670356		4.5	20
Xylenes (total)	A	300.0	315.0	2.345902	2.462529		5.0	20
Bromofluorobenzene	A	30.00	29.16	0.8388372	0.8154046		-2.8	20
Dibromofluoromethane	A	30.00	29.51	0.2991939	0.2943467		-1.6	20
1,2-Dichloroethane-d4	A	30.00	29.91	5.787474E-02	5.770697E-02		-0.3	20
Toluene-d8	A	30.00	29.62	2.148003	2.120858		-1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0226CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1B05903	Injection Date:	02/26/11
Lab Sample ID:	1B05903-CCV1	Injection Time:	10:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	85.51	1.113159	0.9518601		-14.5	20
Ethylbenzene	A	100.0	89.34	3.20803	2.866227		-10.7	20
Methyl t-Butyl Ether	A	100.0	94.27	0.6002451	0.5658709		-5.7	20
Toluene	A	100.0	87.30	1.598242	1.395195		-12.7	20
Xylenes (total)	A	300.0	270.7	2.345902	2.116751		-9.8	20
Bromofluorobenzene	A	30.00	29.25	0.8388372	0.8178242		-2.5	20
Dibromofluoromethane	A	30.00	30.13	0.2991939	0.3004681		0.4	20
1,2-Dichloroethane-d4	A	30.00	28.87	5.787474E-02	5.570137E-02		-3.8	20
Toluene-d8	A	30.00	29.48	2.148003	2.111134		-1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0228CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1C06001	Injection Date:	02/28/11
Lab Sample ID:	1C06001-CCV1	Injection Time:	07:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	82.93	1.113159	0.92311		-17.1	20
Ethylbenzene	A	100.0	84.08	3.20803	2.697367		-15.9	20
Methyl t-Butyl Ether	A	100.0	87.67	0.6002451	0.5262145		-12.3	20
Toluene	A	100.0	83.20	1.598242	1.329752		-16.8	20
Xylenes (total)	A	300.0	257.5	2.345902	2.013623		-14.2	20
Bromofluorobenzene	A	30.00	29.39	0.8388372	0.8217041		-2.0	20
Dibromofluoromethane	A	30.00	28.97	0.2991939	0.2889399		-3.4	20
1,2-Dichloroethane-d4	A	30.00	27.61	5.787474E-02	5.327146E-02		-8.0	20
Toluene-d8	A	30.00	29.15	2.148003	2.087394		-2.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0301CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1C06108	Injection Date:	03/01/11
Lab Sample ID:	1C06108-CCV1	Injection Time:	09:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	91.07	1.113159	1.013711		-8.9	20
Ethylbenzene	A	100.0	103.0	3.20803	3.305485		3.0	20
Methyl t-Butyl Ether	A	100.0	100.7	0.6002451	0.6044683		0.7	20
Toluene	A	100.0	96.33	1.598242	1.539548		-3.7	20
Xylenes (total)	A	300.0	309.0	2.345902	2.416809		3.0	20
Bromofluorobenzene	A	30.00	30.21	0.8388372	0.844826		0.7	20
Dibromofluoromethane	A	30.00	29.35	0.2991939	0.2927458		-2.2	20
1,2-Dichloroethane-d4	A	30.00	29.04	5.787474E-02	5.602102E-02		-3.2	20
Toluene-d8	A	30.00	30.39	2.148003	2.175867		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1045002
Lab File ID:	0302CCV1.D	Calibration Date:	02/08/11 16:35
Sequence:	1C06201	Injection Date:	03/02/11
Lab Sample ID:	1C06201-CCV1	Injection Time:	13:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	87.41	1.113159	0.973064		-12.6	20
Ethylbenzene	A	100.0	98.10	3.20803	3.146975		-1.9	20
Methyl t-Butyl Ether	A	100.0	102.7	0.6002451	0.6162151		2.7	20
Toluene	A	100.0	95.93	1.598242	1.533272		-4.1	20
Xylenes (total)	A	300.0	295.9	2.345902	2.314133		-1.4	20
Bromofluorobenzene	A	30.00	30.53	0.8388372	0.8536358		1.8	20
Dibromofluoromethane	A	30.00	30.63	0.2991939	0.3054537		2.1	20
1,2-Dichloroethane-d4	A	30.00	30.73	5.787474E-02	5.927741E-02		2.4	20
Toluene-d8	A	30.00	31.54	2.148003	2.258676		5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26001-BLK1 File ID: 0226BL1.D

Sampled: Prepared: Analyzed: 02/26/11 12:25

Solids: Preparation: 5035 Dilution:

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.08	96.9	85 - 120	
Dibromofluoromethane	30.00	28.71	95.7	80 - 125	
1,2-Dichloroethane-d4	30.00	32.20	107	75 - 140	
Toluene-d8	30.00	28.90	96.3	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B26001-BS1 File ID: 0226LS1.D

Sampled: Prepared: Analyzed: 02/26/11 11:13

Solids: Preparation: 5035 Dilution:

Batch: 1B26001 Sequence: 1B05903 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	43.89	1.25	2.50	5.00	
100-41-4	Ethylbenzene	43.31	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	46.94	1.25	2.50	5.00	
108-88-3	Toluene	44.40	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	136.6	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.03	93.4	85 - 120	
Dibromofluoromethane	30.00	29.90	99.7	80 - 125	
1,2-Dichloroethane-d4	30.00	28.61	95.4	75 - 140	
Toluene-d8	30.00	28.04	93.5	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B28003-BLK1 File ID: 0228BL1.D

Sampled: Prepared: Analyzed: 02/28/11 09:21

Solids: Preparation: 5035 Dilution:

Batch: 1B28003 Sequence: 1C06001 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.18	97.3	85 - 120	
Dibromofluoromethane	30.00	29.76	99.2	80 - 125	
1,2-Dichloroethane-d4	30.00	31.88	106	75 - 140	
Toluene-d8	30.00	28.27	94.2	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix:
Laboratory ID: 1B28003-BS1
File ID: 0228LS1.D
Sampled:
Prepared:
Analyzed: 02/28/11 08:09
Solids:
Preparation: 5035
Dilution:
Batch: 1B28003
Sequence: 1C06001
Calibration: 1045002
Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	40.63	1.25	2.50	5.00	
100-41-4	Ethylbenzene	39.47	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	40.92	1.25	2.50	5.00	
108-88-3	Toluene	39.45	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	125.1	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.26	94.2	85 - 120	
Dibromofluoromethane	30.00	29.66	98.9	80 - 125	
1,2-Dichloroethane-d4	30.00	26.94	89.8	75 - 140	
Toluene-d8	30.00	28.17	93.9	85 - 115	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix:
Laboratory ID: 1B28003-BSD1
File ID: 0228LD1.D
Sampled:
Prepared:
Analyzed: 02/28/11 18:39
Solids:
Preparation: 5035
Dilution:
Batch: 1B28003
Sequence: 1C06001
Calibration: 1045002
Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	41.30	1.25	2.50	5.00	
100-41-4	Ethylbenzene	39.34	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	41.43	1.25	2.50	5.00	
108-88-3	Toluene	39.69	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	124.9	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.61	95.4	85 - 120	
Dibromofluoromethane	30.00	29.23	97.4	80 - 125	
1,2-Dichloroethane-d4	30.00	27.67	92.2	75 - 140	
Toluene-d8	30.00	27.92	93.1	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C01010-BLK1 File ID: 0301BL1.D

Sampled: Prepared: Analyzed: 03/01/11 10:56

Solids: Preparation: 5035 Dilution:

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.04	96.8	85 - 120	
Dibromofluoromethane	30.00	30.14	100	80 - 125	
1,2-Dichloroethane-d4	30.00	31.51	105	75 - 140	
Toluene-d8	30.00	28.99	96.6	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C01010-BS1 File ID: 0301LS1.D

Sampled: Prepared: Analyzed: 03/01/11 09:44

Solids: Preparation: 5035 Dilution:

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	49.79	1.25	2.50	5.00	
100-41-4	Ethylbenzene	51.11	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.14	1.25	2.50	5.00	
108-88-3	Toluene	51.50	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	160.4	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.02	93.4	85 - 120	
Dibromofluoromethane	30.00	29.62	98.7	80 - 125	
1,2-Dichloroethane-d4	30.00	29.09	97.0	75 - 140	
Toluene-d8	30.00	28.55	95.2	85 - 115	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C01010-BSD1 File ID: 0301LD1.D

Sampled: Prepared: Analyzed: 03/01/11 17:20

Solids: Preparation: 5035 Dilution:

Batch: 1C01010 Sequence: 1C06108 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	54.84	1.25	2.50	5.00	
100-41-4	Ethylbenzene	54.82	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	61.42	1.25	2.50	5.00	
108-88-3	Toluene	55.08	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	172.1	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.94	93.1	85 - 120	
Dibromofluoromethane	30.00	28.77	95.9	80 - 125	
1,2-Dichloroethane-d4	30.00	28.86	96.2	75 - 140	
Toluene-d8	30.00	28.61	95.4	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C02015-BLK1 File ID: 0302BL1.D

Sampled: Prepared: Analyzed: 03/02/11 15:43

Solids: Preparation: 5035 Dilution:

Batch: 1C02015 Sequence: 1C06201 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		1.25	2.50	5.00	Q U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.98	96.6	85 - 120	
Dibromofluoromethane	30.00	29.98	99.9	80 - 125	
1,2-Dichloroethane-d4	30.00	31.37	105	75 - 140	
Toluene-d8	30.00	28.90	96.3	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C02015-BS1 File ID: 0302LS1.D

Sampled: Prepared: Analyzed: 03/02/11 14:07

Solids: Preparation: 5035 Dilution:

Batch: 1C02015 Sequence: 1C06201 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	37.08	1.25	2.50	5.00	
100-41-4	Ethylbenzene	38.48	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	38.49	1.25	2.50	5.00	
108-88-3	Toluene	38.13	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	120.1	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.17	93.9	85 - 120	
Dibromofluoromethane	30.00	28.42	94.7	80 - 125	
1,2-Dichloroethane-d4	30.00	27.78	92.6	75 - 140	
Toluene-d8	30.00	28.55	95.2	85 - 115	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C02015-BSD1 File ID: 0302LSD1.D

Sampled: Prepared: Analyzed: 03/02/11 17:43

Solids: Preparation: 5035 Dilution:

Batch: 1C02015 Sequence: 1C06201 Calibration: 1045002 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	39.26	1.25	2.50	5.00	
100-41-4	Ethylbenzene	40.29	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	40.77	1.25	2.50	5.00	
108-88-3	Toluene	40.52	1.25	2.50	5.00	
1330-20-7	Xylenes (total)	126.6	3.75	7.50	15.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.05	93.5	85 - 120	
Dibromofluoromethane	30.00	29.17	97.2	80 - 125	
1,2-Dichloroethane-d4	30.00	28.57	95.2	75 - 140	
Toluene-d8	30.00	28.62	95.4	85 - 115	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS7-2.0-2011-02-17	02/17/11 12:10	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 16:25	9.22	14.00	
MPT-1343-SS7-4.0-2011-02-17	02/17/11 12:20	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 16:49	9.23	14.00	
MPT-1343-SS7-4.5-2011-02-17	02/17/11 12:25	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 17:13	9.24	14.00	
MPT-1343-SS8-2.0-2011-02-17	02/17/11 14:05	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 17:37	9.19	14.00	
MPT-1343-SS8-4.0-2011-02-17	02/17/11 14:15	02/21/11 08:45	02/26/11 00:00	N/A	14.00	02/26/11 18:01	9.20	14.00	
MPT-1343-SS8-4.5-2011-02-17	02/17/11 14:20	02/21/11 08:45	02/28/11 00:00	N/A	14.00	02/28/11 16:39	11.14	14.00	
MPT-1343-SS9-2.0-2011-02-17	02/17/11 15:20	02/21/11 08:45	02/28/11 00:00	N/A	14.00	02/28/11 17:03	11.11	14.00	
MPT-1343-SS9-4.0-2011-02-17	02/17/11 15:30	02/21/11 08:45	02/28/11 00:00	N/A	14.00	02/28/11 17:27	11.12	14.00	
MPT-1343-SS9-4.5-2011-02-17	02/17/11 15:35	02/21/11 08:45	03/01/11 00:00	N/A	14.00	03/01/11 12:32	11.91	14.00	
MPT-1343-SS10-2.0-2011-02-18	02/18/11 09:15	02/21/11 08:45	03/01/11 00:00	N/A	14.00	03/01/11 12:56	11.20	14.00	
MPT-1343-SS10-4.0-2011-02-18	02/18/11 09:25	02/21/11 08:45	03/01/11 00:00	N/A	14.00	03/01/11 13:20	11.20	14.00	
MPT-1343-SS10-4.5-2011-02-18	02/18/11 09:30	02/21/11 08:45	03/01/11 00:00	N/A	14.00	03/01/11 13:44	11.22	14.00	
MPT-1343-SS11-2.0-2011-02-18	02/18/11 10:05	02/21/11 08:45	03/02/11 00:00	N/A	14.00	03/02/11 16:31	12.31	14.00	
MPT-1343-SS11-4.0-2011-02-18	02/18/11 10:15	02/21/11 08:45	03/02/11 00:00	N/A	14.00	03/02/11 16:55	12.32	14.00	
MPT-1343-SS11-4.5-2011-02-18	02/18/11 10:20	02/21/11 08:45	03/01/11 00:00	N/A	14.00	03/01/11 14:56	11.23	14.00	

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

MPT-1343-SS7-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-01 File ID: 0221801.D

Sampled: 02/17/11 12:05 Prepared: 02/25/11 09:31 Analyzed: 03/07/11 09:52

Solids: 90.63 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06609 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.82	3.63	7.26	U
208-96-8	Acenaphthylene		1.82	3.63	7.26	U
120-12-7	Anthracene		1.82	3.63	7.26	U
56-55-3	Benzo(a)anthracene		1.82	3.63	7.26	X U
50-32-8	Benzo(a)pyrene		1.82	3.63	7.26	U
205-99-2	Benzo(b)fluoranthene	4.70	1.82	3.63	7.26	I
191-24-2	Benzo(g,h,i)perylene	5.77	1.82	3.63	7.26	I
207-08-9	Benzo(k)fluoranthene		1.82	3.63	7.26	U
218-01-9	Chrysene	2.60	1.82	3.63	7.26	X I
53-70-3	Dibenz(a,h)anthracene		1.82	3.63	7.26	U
206-44-0	Fluoranthene	4.60	1.82	3.63	7.26	I
86-73-7	Fluorene		1.82	3.63	7.26	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.82	3.63	7.26	U
90-12-0	1-Methylnaphthalene	7.11	1.82	3.63	7.26	I
91-57-6	2-Methylnaphthalene	3.93	1.82	3.63	7.26	I
91-20-3	Naphthalene	2.05	1.82	3.63	7.26	I
85-01-8	Phenanthrene	3.45	1.82	3.63	7.26	I
129-00-0	Pyrene	3.83	1.82	3.63	7.26	X I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3630	2801	77.2	14 - 129	
Terphenyl-d14	3630	3043	83.8	14 - 129	X

ANALYSIS DATA SHEET

MPT-1343-SS7-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-02 File ID: 0221802.D

Sampled: 02/17/11 12:10 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 20:25

Solids: 92.88 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.76	3.51	7.04	U
208-96-8	Acenaphthylene		1.76	3.51	7.04	U
120-12-7	Anthracene		1.76	3.51	7.04	U
56-55-3	Benzo(a)anthracene	16.9	1.76	3.51	7.04	
50-32-8	Benzo(a)pyrene	4.16	1.76	3.51	7.04	I
205-99-2	Benzo(b)fluoranthene		1.76	3.51	7.04	U
191-24-2	Benzo(g,h,i)perylene	4.41	1.76	3.51	7.04	I
207-08-9	Benzo(k)fluoranthene		1.76	3.51	7.04	U
218-01-9	Chrysene	4.05	1.76	3.51	7.04	I
53-70-3	Dibenz(a,h)anthracene		1.76	3.51	7.04	U
206-44-0	Fluoranthene	6.04	1.76	3.51	7.04	I
86-73-7	Fluorene		1.76	3.51	7.04	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.76	3.51	7.04	U
90-12-0	1-Methylnaphthalene	9.69	1.76	3.51	7.04	
91-57-6	2-Methylnaphthalene	5.13	1.76	3.51	7.04	I
91-20-3	Naphthalene		1.76	3.51	7.04	U
85-01-8	Phenanthrene		1.76	3.51	7.04	U
129-00-0	Pyrene	6.13	1.76	3.51	7.04	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3518	2935	83.4	14 - 129	
Terphenyl-d14	3518	3179	90.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS7-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-03 File ID: 0221803.D

Sampled: 02/17/11 12:20 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 20:51

Solids: 89.77 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	5.82	1.78	3.54	7.10	I
208-96-8	Acenaphthylene		1.78	3.54	7.10	U
120-12-7	Anthracene		1.78	3.54	7.10	U
56-55-3	Benzo(a)anthracene	16.2	1.78	3.54	7.10	
50-32-8	Benzo(a)pyrene		1.78	3.54	7.10	U
205-99-2	Benzo(b)fluoranthene		1.78	3.54	7.10	U
191-24-2	Benzo(g,h,i)perylene	2.32	1.78	3.54	7.10	I
207-08-9	Benzo(k)fluoranthene		1.78	3.54	7.10	U
218-01-9	Chrysene	2.74	1.78	3.54	7.10	I
53-70-3	Dibenz(a,h)anthracene		1.78	3.54	7.10	U
206-44-0	Fluoranthene	4.86	1.78	3.54	7.10	I
86-73-7	Fluorene		1.78	3.54	7.10	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.07	1.78	3.54	7.10	I
90-12-0	1-Methylnaphthalene	14.2	1.78	3.54	7.10	
91-57-6	2-Methylnaphthalene	7.21	1.78	3.54	7.10	
91-20-3	Naphthalene	3.69	1.78	3.54	7.10	I
85-01-8	Phenanthrene		1.78	3.54	7.10	U
129-00-0	Pyrene	4.84	1.78	3.54	7.10	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3548	2566	72.3	14 - 129	
Terphenyl-d14	3548	3240	91.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS7-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-04 File ID: 0221804.D

Sampled: 02/17/11 12:25 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 21:18

Solids: 86.58 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.84	3.67	7.36	U
208-96-8	Acenaphthylene		1.84	3.67	7.36	U
120-12-7	Anthracene		1.84	3.67	7.36	U
56-55-3	Benzo(a)anthracene	52.7	1.84	3.67	7.36	
50-32-8	Benzo(a)pyrene	26.5	1.84	3.67	7.36	
205-99-2	Benzo(b)fluoranthene	32.7	1.84	3.67	7.36	
191-24-2	Benzo(g,h,i)perylene	9.63	1.84	3.67	7.36	
207-08-9	Benzo(k)fluoranthene	19.9	1.84	3.67	7.36	
218-01-9	Chrysene	43.1	1.84	3.67	7.36	
53-70-3	Dibenz(a,h)anthracene	2.70	1.84	3.67	7.36	I
206-44-0	Fluoranthene	206	1.84	3.67	7.36	
86-73-7	Fluorene	373	1.84	3.67	7.36	
193-39-5	Indeno(1,2,3-cd)pyrene	9.73	1.84	3.67	7.36	
90-12-0	1-Methylnaphthalene	356	1.84	3.67	7.36	
91-57-6	2-Methylnaphthalene	136	1.84	3.67	7.36	
91-20-3	Naphthalene		1.84	3.67	7.36	U
85-01-8	Phenanthrene		1.84	3.67	7.36	U
129-00-0	Pyrene	202	1.84	3.67	7.36	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3678	2686	73.0	14 - 129	
Terphenyl-d14	3678	3093	84.1	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS8-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-05 File ID: 0221805D.D

Sampled: 02/17/11 14:00 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 02:38

Solids: 88.92 Preparation: EXT_3546 Dilution: 5

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		9.09	18.1	36.3	U
208-96-8	Acenaphthylene		9.09	18.1	36.3	U
120-12-7	Anthracene		9.09	18.1	36.3	U
56-55-3	Benzo(a)anthracene	79.5	9.09	18.1	36.3	D
50-32-8	Benzo(a)pyrene		9.09	18.1	36.3	U
205-99-2	Benzo(b)fluoranthene	15.9	9.09	18.1	36.3	D I
191-24-2	Benzo(g,h,i)perylene		9.09	18.1	36.3	U
207-08-9	Benzo(k)fluoranthene		9.09	18.1	36.3	U
218-01-9	Chrysene	10.4	9.09	18.1	36.3	D I
53-70-3	Dibenz(a,h)anthracene		9.09	18.1	36.3	U
206-44-0	Fluoranthene	11.0	9.09	18.1	36.3	D I
86-73-7	Fluorene		9.09	18.1	36.3	U
193-39-5	Indeno(1,2,3-cd)pyrene		9.09	18.1	36.3	U
90-12-0	1-Methylnaphthalene	13.7	9.09	18.1	36.3	D I
91-57-6	2-Methylnaphthalene		9.09	18.1	36.3	U
91-20-3	Naphthalene		9.09	18.1	36.3	U
85-01-8	Phenanthrene		9.09	18.1	36.3	U
129-00-0	Pyrene	12.2	9.09	18.1	36.3	D I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3628	2728	75.2	14 - 129	
Terphenyl-d14	3628	2985	82.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS8-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-06 File ID: 0221806.D

Sampled: 02/17/11 14:05 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 21:45

Solids: 76.43 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.17	4.33	8.67	U
208-96-8	Acenaphthylene		2.17	4.33	8.67	U
120-12-7	Anthracene		2.17	4.33	8.67	U
56-55-3	Benzo(a)anthracene		2.17	4.33	8.67	U
50-32-8	Benzo(a)pyrene	2.96	2.17	4.33	8.67	I
205-99-2	Benzo(b)fluoranthene	3.53	2.17	4.33	8.67	I
191-24-2	Benzo(g,h,i)perylene	2.57	2.17	4.33	8.67	I
207-08-9	Benzo(k)fluoranthene		2.17	4.33	8.67	U
218-01-9	Chrysene	3.15	2.17	4.33	8.67	I
53-70-3	Dibenz(a,h)anthracene		2.17	4.33	8.67	U
206-44-0	Fluoranthene	3.18	2.17	4.33	8.67	I
86-73-7	Fluorene		2.17	4.33	8.67	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.19	2.17	4.33	8.67	I
90-12-0	1-Methylnaphthalene	7.51	2.17	4.33	8.67	I
91-57-6	2-Methylnaphthalene	3.38	2.17	4.33	8.67	I
91-20-3	Naphthalene		2.17	4.33	8.67	U
85-01-8	Phenanthrene	2.99	2.17	4.33	8.67	I
129-00-0	Pyrene	3.51	2.17	4.33	8.67	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4333	2973	68.6	14 - 129	
Terphenyl-d14	4333	3676	84.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS8-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-07 File ID: 0221807.D

Sampled: 02/17/11 14:15 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 22:11

Solids: 82.81 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.99	3.97	7.95	U
208-96-8	Acenaphthylene		1.99	3.97	7.95	U
120-12-7	Anthracene		1.99	3.97	7.95	U
56-55-3	Benzo(a)anthracene		1.99	3.97	7.95	U
50-32-8	Benzo(a)pyrene		1.99	3.97	7.95	U
205-99-2	Benzo(b)fluoranthene	2.06	1.99	3.97	7.95	I
191-24-2	Benzo(g,h,i)perylene		1.99	3.97	7.95	U
207-08-9	Benzo(k)fluoranthene		1.99	3.97	7.95	U
218-01-9	Chrysene		1.99	3.97	7.95	U
53-70-3	Dibenz(a,h)anthracene		1.99	3.97	7.95	U
206-44-0	Fluoranthene	2.68	1.99	3.97	7.95	I
86-73-7	Fluorene		1.99	3.97	7.95	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.99	3.97	7.95	U
90-12-0	1-Methylnaphthalene	4.60	1.99	3.97	7.95	I
91-57-6	2-Methylnaphthalene	2.59	1.99	3.97	7.95	I
91-20-3	Naphthalene		1.99	3.97	7.95	U
85-01-8	Phenanthrene	2.14	1.99	3.97	7.95	I
129-00-0	Pyrene	2.19	1.99	3.97	7.95	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3973	3207	80.7	14 - 129	
Terphenyl-d14	3973	3451	86.9	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS8-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-08 File ID: 0221808.D

Sampled: 02/17/11 14:20 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 22:38

Solids: 80.57 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.07	4.13	8.28	U
208-96-8	Acenaphthylene		2.07	4.13	8.28	U
120-12-7	Anthracene		2.07	4.13	8.28	U
56-55-3	Benzo(a)anthracene		2.07	4.13	8.28	U
50-32-8	Benzo(a)pyrene		2.07	4.13	8.28	U
205-99-2	Benzo(b)fluoranthene	2.58	2.07	4.13	8.28	I
191-24-2	Benzo(g,h,i)perylene	2.35	2.07	4.13	8.28	I
207-08-9	Benzo(k)fluoranthene		2.07	4.13	8.28	U
218-01-9	Chrysene		2.07	4.13	8.28	U
53-70-3	Dibenz(a,h)anthracene		2.07	4.13	8.28	U
206-44-0	Fluoranthene		2.07	4.13	8.28	U
86-73-7	Fluorene		2.07	4.13	8.28	U
193-39-5	Indeno(1,2,3-cd)pyrene		2.07	4.13	8.28	U
90-12-0	1-Methylnaphthalene	4.96	2.07	4.13	8.28	I
91-57-6	2-Methylnaphthalene	4.59	2.07	4.13	8.28	I
91-20-3	Naphthalene	2.26	2.07	4.13	8.28	I
85-01-8	Phenanthrene	2.55	2.07	4.13	8.28	I
129-00-0	Pyrene	2.11	2.07	4.13	8.28	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4137	3032	73.3	14 - 129	
Terphenyl-d14	4137	3314	80.1	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS9-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-09 File ID: 0221809.D

Sampled: 02/17/11 15:15 Prepared: 02/25/11 09:31 Analyzed: 03/07/11 10:19

Solids: 89.37 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06609 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.79	3.56	7.13	U
208-96-8	Acenaphthylene		1.79	3.56	7.13	U
120-12-7	Anthracene		1.79	3.56	7.13	U
56-55-3	Benzo(a)anthracene		1.79	3.56	7.13	X U
50-32-8	Benzo(a)pyrene		1.79	3.56	7.13	U
205-99-2	Benzo(b)fluoranthene	5.72	1.79	3.56	7.13	I
191-24-2	Benzo(g,h,i)perylene		1.79	3.56	7.13	U
207-08-9	Benzo(k)fluoranthene		1.79	3.56	7.13	U
218-01-9	Chrysene		1.79	3.56	7.13	X U
53-70-3	Dibenz(a,h)anthracene		1.79	3.56	7.13	U
206-44-0	Fluoranthene	3.92	1.79	3.56	7.13	I
86-73-7	Fluorene		1.79	3.56	7.13	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.48	1.79	3.56	7.13	I
90-12-0	1-Methylnaphthalene	3.95	1.79	3.56	7.13	I
91-57-6	2-Methylnaphthalene	2.57	1.79	3.56	7.13	I
91-20-3	Naphthalene		1.79	3.56	7.13	U
85-01-8	Phenanthrene	2.73	1.79	3.56	7.13	I
129-00-0	Pyrene	3.31	1.79	3.56	7.13	X I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3564	3128	87.8	14 - 129	
Terphenyl-d14	3564	2942	82.6	14 - 129	X

ANALYSIS DATA SHEET

MPT-1343-SS9-2.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-10 File ID: 0221810.D

Sampled: 02/17/11 15:20 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 23:04

Solids: 88.14 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.87	3.73	7.47	U
208-96-8	Acenaphthylene		1.87	3.73	7.47	U
120-12-7	Anthracene		1.87	3.73	7.47	U
56-55-3	Benzo(a)anthracene		1.87	3.73	7.47	U
50-32-8	Benzo(a)pyrene		1.87	3.73	7.47	U
205-99-2	Benzo(b)fluoranthene	4.32	1.87	3.73	7.47	I
191-24-2	Benzo(g,h,i)perylene		1.87	3.73	7.47	U
207-08-9	Benzo(k)fluoranthene		1.87	3.73	7.47	U
218-01-9	Chrysene	2.35	1.87	3.73	7.47	I
53-70-3	Dibenz(a,h)anthracene		1.87	3.73	7.47	U
206-44-0	Fluoranthene	3.01	1.87	3.73	7.47	I
86-73-7	Fluorene		1.87	3.73	7.47	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.87	3.73	7.47	U
90-12-0	1-Methylnaphthalene	2.48	1.87	3.73	7.47	I
91-57-6	2-Methylnaphthalene		1.87	3.73	7.47	U
91-20-3	Naphthalene		1.87	3.73	7.47	U
85-01-8	Phenanthrene	2.04	1.87	3.73	7.47	I
129-00-0	Pyrene	2.70	1.87	3.73	7.47	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3732	3269	87.6	14 - 129	
Terphenyl-d14	3732	3236	86.7	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS9-4.0-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-11 File ID: 0221811.D

Sampled: 02/17/11 15:30 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 23:31

Solids: 85.35 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.88	3.75	7.51	U
208-96-8	Acenaphthylene		1.88	3.75	7.51	U
120-12-7	Anthracene		1.88	3.75	7.51	U
56-55-3	Benzo(a)anthracene	17.3	1.88	3.75	7.51	
50-32-8	Benzo(a)pyrene	2.08	1.88	3.75	7.51	I
205-99-2	Benzo(b)fluoranthene	3.78	1.88	3.75	7.51	I
191-24-2	Benzo(g,h,i)perylene		1.88	3.75	7.51	U
207-08-9	Benzo(k)fluoranthene		1.88	3.75	7.51	U
218-01-9	Chrysene	2.56	1.88	3.75	7.51	I
53-70-3	Dibenz(a,h)anthracene		1.88	3.75	7.51	U
206-44-0	Fluoranthene	4.56	1.88	3.75	7.51	I
86-73-7	Fluorene		1.88	3.75	7.51	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.42	1.88	3.75	7.51	I
90-12-0	1-Methylnaphthalene	2.12	1.88	3.75	7.51	I
91-57-6	2-Methylnaphthalene		1.88	3.75	7.51	U
91-20-3	Naphthalene		1.88	3.75	7.51	U
85-01-8	Phenanthrene	3.18	1.88	3.75	7.51	I
129-00-0	Pyrene	5.81	1.88	3.75	7.51	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3755	2972	79.1	14 - 129	
Terphenyl-d14	3755	3380	90.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS9-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-12 File ID: 0221812.D

Sampled: 02/17/11 15:35 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 23:58

Solids: 88.14 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.89	3.78	7.57	U
208-96-8	Acenaphthylene		1.89	3.78	7.57	U
120-12-7	Anthracene	2.66	1.89	3.78	7.57	I
56-55-3	Benzo(a)anthracene	19.4	1.89	3.78	7.57	
50-32-8	Benzo(a)pyrene	11.8	1.89	3.78	7.57	
205-99-2	Benzo(b)fluoranthene	19.4	1.89	3.78	7.57	
191-24-2	Benzo(g,h,i)perylene	6.83	1.89	3.78	7.57	I
207-08-9	Benzo(k)fluoranthene	9.83	1.89	3.78	7.57	
218-01-9	Chrysene	7.41	1.89	3.78	7.57	I
53-70-3	Dibenz(a,h)anthracene		1.89	3.78	7.57	U
206-44-0	Fluoranthene	7.01	1.89	3.78	7.57	I
86-73-7	Fluorene		1.89	3.78	7.57	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.29	1.89	3.78	7.57	I
90-12-0	1-Methylnaphthalene	2.16	1.89	3.78	7.57	I
91-57-6	2-Methylnaphthalene		1.89	3.78	7.57	U
91-20-3	Naphthalene		1.89	3.78	7.57	U
85-01-8	Phenanthrene	3.62	1.89	3.78	7.57	I
129-00-0	Pyrene	10.8	1.89	3.78	7.57	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3782	2989	79.0	14 - 129	
Terphenyl-d14	3782	3216	85.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS10-0.5-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-13 File ID: 0221813.D

Sampled: 02/18/11 09:10 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 00:24

Solids: 90.37 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.82	3.64	7.28	U
208-96-8	Acenaphthylene		1.82	3.64	7.28	U
120-12-7	Anthracene		1.82	3.64	7.28	U
56-55-3	Benzo(a)anthracene	16.5	1.82	3.64	7.28	
50-32-8	Benzo(a)pyrene		1.82	3.64	7.28	U
205-99-2	Benzo(b)fluoranthene	5.15	1.82	3.64	7.28	I
191-24-2	Benzo(g,h,i)perylene	4.39	1.82	3.64	7.28	I
207-08-9	Benzo(k)fluoranthene		1.82	3.64	7.28	U
218-01-9	Chrysene	3.69	1.82	3.64	7.28	I
53-70-3	Dibenz(a,h)anthracene		1.82	3.64	7.28	U
206-44-0	Fluoranthene	4.66	1.82	3.64	7.28	I
86-73-7	Fluorene		1.82	3.64	7.28	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.79	1.82	3.64	7.28	I
90-12-0	1-Methylnaphthalene	3.39	1.82	3.64	7.28	I
91-57-6	2-Methylnaphthalene	2.96	1.82	3.64	7.28	I
91-20-3	Naphthalene	2.15	1.82	3.64	7.28	I
85-01-8	Phenanthrene	4.86	1.82	3.64	7.28	I
129-00-0	Pyrene	4.22	1.82	3.64	7.28	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3640	2985	82.0	14 - 129	
Terphenyl-d14	3640	3337	91.7	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS10-2.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-14 File ID: 0221814.D

Sampled: 02/18/11 09:15 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 00:51

Solids: 88.71 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.88	3.75	7.52	U
208-96-8	Acenaphthylene		1.88	3.75	7.52	U
120-12-7	Anthracene		1.88	3.75	7.52	U
56-55-3	Benzo(a)anthracene		1.88	3.75	7.52	U
50-32-8	Benzo(a)pyrene	2.52	1.88	3.75	7.52	I
205-99-2	Benzo(b)fluoranthene	3.90	1.88	3.75	7.52	I
191-24-2	Benzo(g,h,i)perylene		1.88	3.75	7.52	U
207-08-9	Benzo(k)fluoranthene		1.88	3.75	7.52	U
218-01-9	Chrysene		1.88	3.75	7.52	U
53-70-3	Dibenz(a,h)anthracene		1.88	3.75	7.52	U
206-44-0	Fluoranthene	5.51	1.88	3.75	7.52	I
86-73-7	Fluorene		1.88	3.75	7.52	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.52	1.88	3.75	7.52	I
90-12-0	1-Methylnaphthalene	2.28	1.88	3.75	7.52	I
91-57-6	2-Methylnaphthalene	2.10	1.88	3.75	7.52	I
91-20-3	Naphthalene		1.88	3.75	7.52	U
85-01-8	Phenanthrene	3.88	1.88	3.75	7.52	I
129-00-0	Pyrene	5.66	1.88	3.75	7.52	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3757	2894	77.0	14 - 129	
Terphenyl-d14	3757	2960	78.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS10-4.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-15 File ID: 0221815.D

Sampled: 02/18/11 09:25 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 01:18

Solids: 86.90 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.90	3.78	7.57	U
208-96-8	Acenaphthylene		1.90	3.78	7.57	U
120-12-7	Anthracene		1.90	3.78	7.57	U
56-55-3	Benzo(a)anthracene	18.8	1.90	3.78	7.57	
50-32-8	Benzo(a)pyrene		1.90	3.78	7.57	U
205-99-2	Benzo(b)fluoranthene	8.89	1.90	3.78	7.57	
191-24-2	Benzo(g,h,i)perylene	4.58	1.90	3.78	7.57	I
207-08-9	Benzo(k)fluoranthene		1.90	3.78	7.57	U
218-01-9	Chrysene	4.79	1.90	3.78	7.57	I
53-70-3	Dibenz(a,h)anthracene		1.90	3.78	7.57	U
206-44-0	Fluoranthene	9.14	1.90	3.78	7.57	
86-73-7	Fluorene		1.90	3.78	7.57	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.05	1.90	3.78	7.57	I
90-12-0	1-Methylnaphthalene	3.37	1.90	3.78	7.57	I
91-57-6	2-Methylnaphthalene	2.38	1.90	3.78	7.57	I
91-20-3	Naphthalene	2.21	1.90	3.78	7.57	I
85-01-8	Phenanthrene	5.31	1.90	3.78	7.57	I
129-00-0	Pyrene	8.35	1.90	3.78	7.57	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3786	3323	87.8	14 - 129	
Terphenyl-d14	3786	3539	93.5	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS10-4.5-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-16 File ID: 0221816D.D

Sampled: 02/18/11 09:30 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 03:31

Solids: 84.45 Preparation: EXT_3546 Dilution: 5

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		9.82	19.6	39.2	U
208-96-8	Acenaphthylene		9.82	19.6	39.2	U
120-12-7	Anthracene		9.82	19.6	39.2	U
56-55-3	Benzo(a)anthracene		9.82	19.6	39.2	U
50-32-8	Benzo(a)pyrene		9.82	19.6	39.2	U
205-99-2	Benzo(b)fluoranthene		9.82	19.6	39.2	U
191-24-2	Benzo(g,h,i)perylene		9.82	19.6	39.2	U
207-08-9	Benzo(k)fluoranthene		9.82	19.6	39.2	U
218-01-9	Chrysene		9.82	19.6	39.2	U
53-70-3	Dibenz(a,h)anthracene		9.82	19.6	39.2	U
206-44-0	Fluoranthene		9.82	19.6	39.2	U
86-73-7	Fluorene		9.82	19.6	39.2	U
193-39-5	Indeno(1,2,3-cd)pyrene		9.82	19.6	39.2	U
90-12-0	1-Methylnaphthalene		9.82	19.6	39.2	U
91-57-6	2-Methylnaphthalene		9.82	19.6	39.2	U
91-20-3	Naphthalene		9.82	19.6	39.2	U
85-01-8	Phenanthrene		9.82	19.6	39.2	U
129-00-0	Pyrene		9.82	19.6	39.2	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3921	3334	85.0	14 - 129	
Terphenyl-d14	3921	3542	90.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS11-0.5-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-17 File ID: 0221817D.D

Sampled: 02/18/11 10:00 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 03:58

Solids: 90.67 Preparation: EXT_3546 Dilution: 5

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		9.21	18.4	36.8	U
208-96-8	Acenaphthylene		9.21	18.4	36.8	U
120-12-7	Anthracene		9.21	18.4	36.8	U
56-55-3	Benzo(a)anthracene	82.0	9.21	18.4	36.8	D
50-32-8	Benzo(a)pyrene		9.21	18.4	36.8	U
205-99-2	Benzo(b)fluoranthene	17.4	9.21	18.4	36.8	D I
191-24-2	Benzo(g,h,i)perylene		9.21	18.4	36.8	U
207-08-9	Benzo(k)fluoranthene		9.21	18.4	36.8	U
218-01-9	Chrysene	15.9	9.21	18.4	36.8	D I
53-70-3	Dibenz(a,h)anthracene		9.21	18.4	36.8	U
206-44-0	Fluoranthene	29.1	9.21	18.4	36.8	D I
86-73-7	Fluorene		9.21	18.4	36.8	U
193-39-5	Indeno(1,2,3-cd)pyrene		9.21	18.4	36.8	U
90-12-0	1-Methylnaphthalene		9.21	18.4	36.8	U
91-57-6	2-Methylnaphthalene		9.21	18.4	36.8	U
91-20-3	Naphthalene		9.21	18.4	36.8	U
85-01-8	Phenanthrene	16.4	9.21	18.4	36.8	D I
129-00-0	Pyrene	22.8	9.21	18.4	36.8	D I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3676	2951	80.3	14 - 129	
Terphenyl-d14	3676	3072	83.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS11-2.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-18 File ID: 0221818.D

Sampled: 02/18/11 10:05 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 19:31

Solids: 90.64 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.79	3.58	7.17	U
208-96-8	Acenaphthylene		1.79	3.58	7.17	U
120-12-7	Anthracene		1.79	3.58	7.17	U
56-55-3	Benzo(a)anthracene		1.79	3.58	7.17	U
50-32-8	Benzo(a)pyrene		1.79	3.58	7.17	U
205-99-2	Benzo(b)fluoranthene		1.79	3.58	7.17	U
191-24-2	Benzo(g,h,i)perylene		1.79	3.58	7.17	U
207-08-9	Benzo(k)fluoranthene		1.79	3.58	7.17	U
218-01-9	Chrysene		1.79	3.58	7.17	U
53-70-3	Dibenz(a,h)anthracene		1.79	3.58	7.17	U
206-44-0	Fluoranthene		1.79	3.58	7.17	U
86-73-7	Fluorene		1.79	3.58	7.17	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.79	3.58	7.17	U
90-12-0	1-Methylnaphthalene	1.82	1.79	3.58	7.17	I
91-57-6	2-Methylnaphthalene		1.79	3.58	7.17	U
91-20-3	Naphthalene		1.79	3.58	7.17	U
85-01-8	Phenanthrene		1.79	3.58	7.17	U
129-00-0	Pyrene		1.79	3.58	7.17	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3582	3471	96.9	14 - 129	
Terphenyl-d14	3582	3810	106	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS11-4.0-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-19 File ID: 0221819.D

Sampled: 02/18/11 10:15 Prepared: 02/25/11 09:31 Analyzed: 03/03/11 19:58

Solids: 87.44 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.82	3.64	7.29	U
208-96-8	Acenaphthylene		1.82	3.64	7.29	U
120-12-7	Anthracene		1.82	3.64	7.29	U
56-55-3	Benzo(a)anthracene		1.82	3.64	7.29	U
50-32-8	Benzo(a)pyrene		1.82	3.64	7.29	U
205-99-2	Benzo(b)fluoranthene		1.82	3.64	7.29	U
191-24-2	Benzo(g,h,i)perylene		1.82	3.64	7.29	U
207-08-9	Benzo(k)fluoranthene		1.82	3.64	7.29	U
218-01-9	Chrysene		1.82	3.64	7.29	U
53-70-3	Dibenz(a,h)anthracene		1.82	3.64	7.29	U
206-44-0	Fluoranthene		1.82	3.64	7.29	U
86-73-7	Fluorene		1.82	3.64	7.29	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.82	3.64	7.29	U
90-12-0	1-Methylnaphthalene		1.82	3.64	7.29	U
91-57-6	2-Methylnaphthalene		1.82	3.64	7.29	U
91-20-3	Naphthalene		1.82	3.64	7.29	U
85-01-8	Phenanthrene		1.82	3.64	7.29	U
129-00-0	Pyrene		1.82	3.64	7.29	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3642	3097	85.0	14 - 129	
Terphenyl-d14	3642	3686	101	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS11-4.5-2011-02-18

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Soil Laboratory ID: 1102218-20 File ID: 0221820.D

Sampled: 02/18/11 10:20 Prepared: 02/25/11 09:31 Analyzed: 03/04/11 01:44

Solids: 80.24 Preparation: EXT_3546 Dilution: 1

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.99	3.96	7.94	U
208-96-8	Acenaphthylene		1.99	3.96	7.94	U
120-12-7	Anthracene		1.99	3.96	7.94	U
56-55-3	Benzo(a)anthracene		1.99	3.96	7.94	U
50-32-8	Benzo(a)pyrene		1.99	3.96	7.94	U
205-99-2	Benzo(b)fluoranthene		1.99	3.96	7.94	U
191-24-2	Benzo(g,h,i)perylene		1.99	3.96	7.94	U
207-08-9	Benzo(k)fluoranthene		1.99	3.96	7.94	U
218-01-9	Chrysene		1.99	3.96	7.94	U
53-70-3	Dibenz(a,h)anthracene		1.99	3.96	7.94	U
206-44-0	Fluoranthene		1.99	3.96	7.94	U
86-73-7	Fluorene		1.99	3.96	7.94	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.99	3.96	7.94	U
90-12-0	1-Methylnaphthalene		1.99	3.96	7.94	U
91-57-6	2-Methylnaphthalene		1.99	3.96	7.94	U
91-20-3	Naphthalene		1.99	3.96	7.94	U
85-01-8	Phenanthrene		1.99	3.96	7.94	U
129-00-0	Pyrene		1.99	3.96	7.94	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3969	3167	79.8	14 - 129	
Terphenyl-d14	3969	3539	89.2	14 - 129	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06608
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06608-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/03/11 17:43		
2-Fluorobiphenyl	5.000	115	80 - 120	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	5.000	108	80 - 120	13.403	13.403	0.0000	+/-0.500	
Blank (1B23012-BLK1) ug/Kg wet				Lab File ID: B23012B1.D		Analyzed: 03/03/11 18:37		
2-Fluorobiphenyl	3333	92.8	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3333	89.7	14 - 129	13.403	13.403	0.0000	+/-0.500	
LCS (1B23012-BS1) ug/Kg wet				Lab File ID: B23012L1.D		Analyzed: 03/03/11 19:04		
2-Fluorobiphenyl	3333	82.8	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3333	88.4	14 - 129	13.403	13.403	0.0000	+/-0.500	
MPT-1343-SS11-2.0-2011-02-18 (1102218-18) ug/Kg dry				Lab File ID: 0221818.D		Analyzed: 03/03/11 19:31		
2-Fluorobiphenyl	3582	96.9	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3582	106	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS11-4.0-2011-02-18 (1102218-19) ug/Kg dry				Lab File ID: 0221819.D		Analyzed: 03/03/11 19:58		
2-Fluorobiphenyl	3642	85.0	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3642	101	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS7-2.0-2011-02-17 (1102218-02) ug/Kg dry				Lab File ID: 0221802.D		Analyzed: 03/03/11 20:25		
2-Fluorobiphenyl	3518	83.4	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3518	90.3	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS7-4.0-2011-02-17 (1102218-03) ug/Kg dry				Lab File ID: 0221803.D		Analyzed: 03/03/11 20:51		
2-Fluorobiphenyl	3548	72.3	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3548	91.3	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS7-4.5-2011-02-17 (1102218-04) ug/Kg dry				Lab File ID: 0221804.D		Analyzed: 03/03/11 21:18		
2-Fluorobiphenyl	3678	73.0	14 - 129	8.773	8.764	0.0090	+/-0.500	
Terphenyl-d14	3678	84.1	14 - 129	13.421	13.403	0.0180	+/-0.500	
MPT-1343-SS8-2.0-2011-02-17 (1102218-06) ug/Kg dry				Lab File ID: 0221806.D		Analyzed: 03/03/11 21:45		
2-Fluorobiphenyl	4333	68.6	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	4333	84.8	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS8-4.0-2011-02-17 (1102218-07) ug/Kg dry				Lab File ID: 0221807.D		Analyzed: 03/03/11 22:11		
2-Fluorobiphenyl	3973	80.7	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3973	86.9	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS8-4.5-2011-02-17 (1102218-08) ug/Kg dry				Lab File ID: 0221808.D		Analyzed: 03/03/11 22:38		
2-Fluorobiphenyl	4137	73.3	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	4137	80.1	14 - 129	13.412	13.403	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06608
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS9-2.0-2011-02-17 (1102218-10) ug/Kg dry				Lab File ID: 0221810.D		Analyzed: 03/03/11 23:04		
2-Fluorobiphenyl	3732	87.6	14 - 129	8.773	8.764	0.0090	+/-0.500	
Terphenyl-d14	3732	86.7	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS9-4.0-2011-02-17 (1102218-11) ug/Kg dry				Lab File ID: 0221811.D		Analyzed: 03/03/11 23:31		
2-Fluorobiphenyl	3755	79.1	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3755	90.0	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS9-4.5-2011-02-17 (1102218-12) ug/Kg dry				Lab File ID: 0221812.D		Analyzed: 03/03/11 23:58		
2-Fluorobiphenyl	3782	79.0	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3782	85.0	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS10-0.5-2011-02-18 (1102218-13) ug/Kg dry				Lab File ID: 0221813.D		Analyzed: 03/04/11 00:24		
2-Fluorobiphenyl	3640	82.0	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3640	91.7	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS10-2.0-2011-02-18 (1102218-14) ug/Kg dry				Lab File ID: 0221814.D		Analyzed: 03/04/11 00:51		
2-Fluorobiphenyl	3757	77.0	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3757	78.8	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS10-4.0-2011-02-18 (1102218-15) ug/Kg dry				Lab File ID: 0221815.D		Analyzed: 03/04/11 01:18		
2-Fluorobiphenyl	3786	87.8	14 - 129	8.773	8.764	0.0090	+/-0.500	
Terphenyl-d14	3786	93.5	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS11-4.5-2011-02-18 (1102218-20) ug/Kg dry				Lab File ID: 0221820.D		Analyzed: 03/04/11 01:44		
2-Fluorobiphenyl	3969	79.8	14 - 129	8.773	8.764	0.0090	+/-0.500	
Terphenyl-d14	3969	89.2	14 - 129	13.412	13.403	0.0090	+/-0.500	
MPT-1343-SS8-0.5-2011-02-17 (1102218-05) ug/Kg dry				Lab File ID: 0221805D.D		Analyzed: 03/04/11 02:38		
2-Fluorobiphenyl	3628	75.2	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3628	82.3	14 - 129	13.403	13.403	0.0000	+/-0.500	
MPT-1343-SS10-4.5-2011-02-18 (1102218-16) ug/Kg dry				Lab File ID: 0221816D.D		Analyzed: 03/04/11 03:31		
2-Fluorobiphenyl	3921	85.0	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3921	90.3	14 - 129	13.403	13.403	0.0000	+/-0.500	
MPT-1343-SS11-0.5-2011-02-18 (1102218-17) ug/Kg dry				Lab File ID: 0221817D.D		Analyzed: 03/04/11 03:58		
2-Fluorobiphenyl	3676	80.3	14 - 129	8.764	8.764	0.0000	+/-0.500	
Terphenyl-d14	3676	83.6	14 - 129	13.403	13.403	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06609
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06609-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/07/11 09:26		
2-Fluorobiphenyl	5.000	100	80 - 120	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	5.000	124	80 - 120	13.365	13.365	0.0000	+/-0.500	*
MPT-1343-SS7-0.5-2011-02-17 (1102218-01) ug/Kg dry				Lab File ID: 0221801.D		Analyzed: 03/07/11 09:52		
2-Fluorobiphenyl	3630	77.2	14 - 129	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	3630	83.8	14 - 129	13.375	13.365	0.0100	+/-0.500	
MPT-1343-SS9-0.5-2011-02-17 (1102218-09) ug/Kg dry				Lab File ID: 0221809.D		Analyzed: 03/07/11 10:19		
2-Fluorobiphenyl	3564	87.8	14 - 129	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	3564	82.6	14 - 129	13.375	13.365	0.0100	+/-0.500	
Matrix Spike (1B23012-MS1) ug/Kg dry				Lab File ID: 0221801M.D		Analyzed: 03/07/11 11:13		
2-Fluorobiphenyl	3606	75.6	14 - 129	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	3606	80.7	14 - 129	13.384	13.365	0.0190	+/-0.500	
Matrix Spike Dup (1B23012-MSD1) ug/Kg dry				Lab File ID: 0221801S.D		Analyzed: 03/07/11 11:40		
2-Fluorobiphenyl	3559	73.5	14 - 129	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	3559	82.4	14 - 129	13.384	13.365	0.0190	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B23012	Laboratory ID:	1B23012-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	66.67	56.80	85.2	28 - 110
Acenaphthylene	66.67	52.32	78.5	23 - 126
Anthracene	66.67	59.63	89.4	28 - 136
Benzo(a)anthracene	66.67	54.51	81.8	31 - 146
Benzo(a)pyrene	66.67	54.41	81.6	28 - 128
Benzo(b)fluoranthene	66.67	51.38	77.1	30 - 139
Benzo(g,h,i)perylene	66.67	50.69	76.0	21 - 149
Benzo(k)fluoranthene	66.67	72.35	109	42 - 129
Chrysene	66.67	61.66	92.5	39 - 134
Dibenz(a,h)anthracene	66.67	32.48	48.7	30 - 138
Fluoranthene	66.67	57.58	86.4	30 - 142
Fluorene	66.67	59.39	89.1	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	35.05	52.6	17 - 164
1-Methylnaphthalene	66.67	62.36	93.5	30 - 111
2-Methylnaphthalene	66.67	59.67	89.5	30 - 111
Naphthalene	66.67	56.54	84.8	29 - 106
Phenanthrene	66.67	55.89	83.8	32 - 127
Pyrene	66.67	59.92	89.9	28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

MPT-1343-SS7-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Batch: 1B23012

% Solids: 90.63

Source Sample Name: **1102218-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	72.12	ND	62.53	86.7		28 - 110
Acenaphthylene	72.12	ND	57.12	79.2		23 - 126
Anthracene	72.12	ND	63.82	88.5		28 - 136
Benzo(a)anthracene	72.12	ND	64.70	89.7		31 - 146
Benzo(a)pyrene	72.12	ND	60.93	84.5		28 - 128
Benzo(b)fluoranthene	72.12	4.700	68.33	88.2		30 - 139
Benzo(g,h,i)perylene	72.12	5.770	54.31	67.3		21 - 149
Benzo(k)fluoranthene	72.12	ND	65.67	91.1		42 - 129
Chrysene	72.12	2.601	53.80	71.0		39 - 134
Dibenz(a,h)anthracene	72.12	ND	55.99	77.6		30 - 138
Fluoranthene	72.12	4.603	65.95	85.1		30 - 142
Fluorene	72.12	ND	66.06	91.6		27 - 116
Indeno(1,2,3-cd)pyrene	72.12	ND	56.22	77.9		17 - 164
1-Methylnaphthalene	72.12	7.105	65.51	81.0		30 - 111
2-Methylnaphthalene	72.12	3.934	60.70	78.7		30 - 111
Naphthalene	72.12	2.051	55.26	73.8		29 - 106
Phenanthrene	72.12	3.454	70.50	93.0		32 - 127
Pyrene	72.12	3.829	63.86	83.2		28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

MPT-1343-SS7-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Batch: 1B23012

% Solids: 90.63

Source Sample Name: **1102218-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	71.19	58.42	82.1	6.79		30	28 - 110
Acenaphthylene	71.19	54.80	77.0	4.13		30	23 - 126
Anthracene	71.19	66.99	94.1	4.85		30	28 - 136
Benzo(a)anthracene	71.19	65.31	91.7	0.939		30	31 - 146
Benzo(a)pyrene	71.19	60.64	85.2	0.475		30	28 - 128
Benzo(b)fluoranthene	71.19	69.07	90.4	1.08		30	30 - 139
Benzo(g,h,i)perylene	71.19	50.88	63.4	6.52		30	21 - 149
Benzo(k)fluoranthene	71.19	67.76	95.2	3.13		30	42 - 129
Chrysene	71.19	54.24	72.5	0.806		30	39 - 134
Dibenz(a,h)anthracene	71.19	53.30	74.9	4.92		30	30 - 138
Fluoranthene	71.19	65.46	85.5	0.749		30	30 - 142
Fluorene	71.19	63.43	89.1	4.06		30	27 - 116
Indeno(1,2,3-cd)pyrene	71.19	53.61	75.3	4.75		30	17 - 164
1-Methylnaphthalene	71.19	68.33	86.0	4.20		30	30 - 111
2-Methylnaphthalene	71.19	61.49	80.9	1.30		30	30 - 111
Naphthalene	71.19	54.18	73.2	1.97		30	29 - 106
Phenanthrene	71.19	64.78	86.2	8.45		30	32 - 127
Pyrene	71.19	65.90	87.2	3.14		30	28 - 130

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B23012 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS7-0.5-2011-02-17	1102218-01	02/25/11 09:31	15.20	1.00
MPT-1343-SS7-2.0-2011-02-17	1102218-02	02/25/11 09:31	15.30	1.00
MPT-1343-SS7-4.0-2011-02-17	1102218-03	02/25/11 09:31	15.70	1.00
MPT-1343-SS7-4.5-2011-02-17	1102218-04	02/25/11 09:31	15.70	1.00
MPT-1343-SS8-0.5-2011-02-17	1102218-05	02/25/11 09:31	15.50	1.00
MPT-1343-SS8-2.0-2011-02-17	1102218-06	02/25/11 09:31	15.10	1.00
MPT-1343-SS8-4.0-2011-02-17	1102218-07	02/25/11 09:31	15.20	1.00
MPT-1343-SS8-4.5-2011-02-17	1102218-08	02/25/11 09:31	15.00	1.00
MPT-1343-SS9-0.5-2011-02-17	1102218-09	02/25/11 09:31	15.70	1.00
MPT-1343-SS9-2.0-2011-02-17	1102218-10	02/25/11 09:31	15.20	1.00
MPT-1343-SS9-4.0-2011-02-17	1102218-11	02/25/11 09:31	15.60	1.00
MPT-1343-SS9-4.5-2011-02-17	1102218-12	02/25/11 09:31	15.00	1.00
MPT-1343-SS10-0.5-2011-02-18	1102218-13	02/25/11 09:31	15.20	1.00
MPT-1343-SS10-2.0-2011-02-18	1102218-14	02/25/11 09:31	15.00	1.00
MPT-1343-SS10-4.0-2011-02-18	1102218-15	02/25/11 09:31	15.20	1.00
MPT-1343-SS10-4.5-2011-02-18	1102218-16	02/25/11 09:31	15.10	1.00
MPT-1343-SS11-0.5-2011-02-18	1102218-17	02/25/11 09:31	15.00	1.00
MPT-1343-SS11-2.0-2011-02-18	1102218-18	02/25/11 09:31	15.40	1.00
MPT-1343-SS11-4.0-2011-02-18	1102218-19	02/25/11 09:31	15.70	1.00
MPT-1343-SS11-4.5-2011-02-18	1102218-20	02/25/11 09:31	15.70	1.00
Blank	1B23012-BLK1	02/25/11 09:31	15.00	1.00
LCS	1B23012-BS1	02/25/11 09:31	15.00	1.00
MPT-1343-SS7-0.5-2011-02-17	1B23012-MS1	02/25/11 09:31	15.30	1.00
MPT-1343-SS7-0.5-2011-02-17	1B23012-MSD1	02/25/11 09:31	15.50	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/28/11
Instrument ID:	MS-BNA4	Injection Time:	19:40
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54	PASS
68	Less than 2% of 69	1.39	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.407	PASS
127	40 - 60% of 198	57.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.79	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	81.8	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/01/11
Instrument ID:	MS-BNA4	Injection Time:	12:01
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.6	PASS
68	Less than 2% of 69	1.55	PASS
69	Less than 200% of 198	50.4	PASS
70	Less than 2% of 69	0.486	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	1	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.03	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 200% of 198	3.45	PASS
441	0.001 - 100% of 443	82.1	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/03/11
Instrument ID:	MS-BNA4	Injection Time:	17:25
Sequence:	1C06608	Lab Sample ID:	1C06608-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	43.6	PASS
68	Less than 2% of 69	1.36	PASS
69	Less than 200% of 198	43.8	PASS
70	Less than 2% of 69	0.567	PASS
127	40 - 60% of 198	52.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.98	PASS
275	10 - 30% of 198	26.8	PASS
365	1 - 200% of 198	3.88	PASS
441	0.001 - 100% of 443	81.4	PASS
442	40 - 200% of 198	122	PASS
443	17 - 23% of 442	19.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/07/11
Instrument ID:	MS-BNA4	Injection Time:	09:08
Sequence:	1C06609	Lab Sample ID:	1C06609-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	48.4	PASS
68	Less than 2% of 69	1.49	PASS
69	Less than 200% of 198	47.7	PASS
70	Less than 2% of 69	0.47	PASS
127	40 - 60% of 198	55	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.75	PASS
275	10 - 30% of 198	25.9	PASS
365	1 - 200% of 198	3.46	PASS
441	0.001 - 100% of 443	80.7	PASS
442	40 - 200% of 198	113	PASS
443	17 - 23% of 442	20.3	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06115	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06115-TUN1	SEQ-TUN1.D	02/28/11 19:40
Cal Standard	1C06115-CAL1	SEQ-CAL1.D	02/28/11 19:58
Cal Standard	1C06115-CAL2	SEQ-CAL2.D	02/28/11 20:24
Cal Standard	1C06115-CAL3	SEQ-CAL3.D	02/28/11 20:50
Cal Standard	1C06115-CAL4	SEQ-CAL4.D	02/28/11 21:16
Cal Standard	1C06115-CAL5	SEQ-CAL5.D	02/28/11 21:42
Cal Standard	1C06115-CAL6	SEQ-CAL6.D	02/28/11 22:08
Cal Standard	1C06115-CAL7	SEQ-CAL7.D	02/28/11 22:35
Cal Standard	1C06115-CAL8	SEQ-CAL8.D	02/28/11 23:01
MS Tune	1C06115-TUN2	SEQ-TUN1.D	03/01/11 12:01
Initial Cal Check	1C06115-ICV1	SEQ-ICV1.D	03/01/11 12:19

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06608	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06608-TUN1	SEQ-TUN1.D	03/03/11 17:25
Calibration Check	1C06608-CCV1	SEQ-CCV1.D	03/03/11 17:43
Blank	1B23012-BLK1	B23012B1.D	03/03/11 18:37
LCS	1B23012-BS1	B23012L1.D	03/03/11 19:04
MPT-1343-SS11-2.0-2011-02-18	1102218-18	0221818.D	03/03/11 19:31
MPT-1343-SS11-4.0-2011-02-18	1102218-19	0221819.D	03/03/11 19:58
MPT-1343-SS7-2.0-2011-02-17	1102218-02	0221802.D	03/03/11 20:25
MPT-1343-SS7-4.0-2011-02-17	1102218-03	0221803.D	03/03/11 20:51
MPT-1343-SS7-4.5-2011-02-17	1102218-04	0221804.D	03/03/11 21:18
MPT-1343-SS8-2.0-2011-02-17	1102218-06	0221806.D	03/03/11 21:45
MPT-1343-SS8-4.0-2011-02-17	1102218-07	0221807.D	03/03/11 22:11
MPT-1343-SS8-4.5-2011-02-17	1102218-08	0221808.D	03/03/11 22:38
MPT-1343-SS9-2.0-2011-02-17	1102218-10	0221810.D	03/03/11 23:04
MPT-1343-SS9-4.0-2011-02-17	1102218-11	0221811.D	03/03/11 23:31
MPT-1343-SS9-4.5-2011-02-17	1102218-12	0221812.D	03/03/11 23:58
MPT-1343-SS10-0.5-2011-02-18	1102218-13	0221813.D	03/04/11 00:24
MPT-1343-SS10-2.0-2011-02-18	1102218-14	0221814.D	03/04/11 00:51
MPT-1343-SS10-4.0-2011-02-18	1102218-15	0221815.D	03/04/11 01:18
MPT-1343-SS11-4.5-2011-02-18	1102218-20	0221820.D	03/04/11 01:44
MPT-1343-SS8-0.5-2011-02-17	1102218-05	0221805D.D	03/04/11 02:38
MPT-1343-SS10-4.5-2011-02-18	1102218-16	0221816D.D	03/04/11 03:31
MPT-1343-SS11-0.5-2011-02-18	1102218-17	0221817D.D	03/04/11 03:58

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06609	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06609-TUN1	SEQ-TUN1.D	03/07/11 09:08
Calibration Check	1C06609-CCV1	SEQ-CCV1.D	03/07/11 09:26
MPT-1343-SS7-0.5-2011-02-17	1102218-01	0221801.D	03/07/11 09:52
MPT-1343-SS9-0.5-2011-02-17	1102218-09	0221809.D	03/07/11 10:19
MPT-1343-SS7-0.5-2011-02-17	1B23012-MS1	0221801M.D	03/07/11 11:13
MPT-1343-SS7-0.5-2011-02-17	1B23012-MSD1	0221801S.D	03/07/11 11:40

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06608
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06608-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/03/11 17:43			
Phenanthrene-d10	124200	11.432	106904	11.432	116	50 - 200	0.0000	+/-0.50	
Perylene-d12	71058	16.545	80420	16.536	88	50 - 200	0.0090	+/-0.50	
Blank (1B23012-BLK1)			Lab File ID: B23012B1.D			Analyzed: 03/03/11 18:37			
Phenanthrene-d10	99337	11.432	124200	11.432	80	50 - 200	0.0000	+/-0.50	
Perylene-d12	38641	16.563	71058	16.545	54	50 - 200	0.0180	+/-0.50	
LCS (1B23012-BS1)			Lab File ID: B23012L1.D			Analyzed: 03/03/11 19:04			
Phenanthrene-d10	111486	11.432	124200	11.432	90	50 - 200	0.0000	+/-0.50	
Perylene-d12	62104	16.545	71058	16.545	87	50 - 200	0.0000	+/-0.50	
MPT-1343-SS11-2.0-2011-02-18 (1102218-18)			Lab File ID: 0221818.D			Analyzed: 03/03/11 19:31			
Phenanthrene-d10	103571	11.432	124200	11.432	83	50 - 200	0.0000	+/-0.50	
Perylene-d12	52378	16.554	71058	16.545	74	50 - 200	0.0090	+/-0.50	
MPT-1343-SS11-4.0-2011-02-18 (1102218-19)			Lab File ID: 0221819.D			Analyzed: 03/03/11 19:58			
Phenanthrene-d10	126249	11.432	124200	11.432	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	74691	16.545	71058	16.545	105	50 - 200	0.0000	+/-0.50	
MPT-1343-SS7-2.0-2011-02-17 (1102218-02)			Lab File ID: 0221802.D			Analyzed: 03/03/11 20:25			
Phenanthrene-d10	135461	11.432	124200	11.432	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	81136	16.545	71058	16.545	114	50 - 200	0.0000	+/-0.50	
MPT-1343-SS7-4.0-2011-02-17 (1102218-03)			Lab File ID: 0221803.D			Analyzed: 03/03/11 20:51			
Phenanthrene-d10	134760	11.432	124200	11.432	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	88519	16.545	71058	16.545	125	50 - 200	0.0000	+/-0.50	
MPT-1343-SS7-4.5-2011-02-17 (1102218-04)			Lab File ID: 0221804.D			Analyzed: 03/03/11 21:18			
Phenanthrene-d10	150160	11.45	124200	11.432	121	50 - 200	0.0180	+/-0.50	
Perylene-d12	85514	16.545	71058	16.545	120	50 - 200	0.0000	+/-0.50	
MPT-1343-SS8-2.0-2011-02-17 (1102218-06)			Lab File ID: 0221806.D			Analyzed: 03/03/11 21:45			
Phenanthrene-d10	141234	11.432	124200	11.432	114	50 - 200	0.0000	+/-0.50	
Perylene-d12	110465	16.545	71058	16.545	155	50 - 200	0.0000	+/-0.50	
MPT-1343-SS8-4.0-2011-02-17 (1102218-07)			Lab File ID: 0221807.D			Analyzed: 03/03/11 22:11			
Phenanthrene-d10	155023	11.432	124200	11.432	125	50 - 200	0.0000	+/-0.50	
Perylene-d12	99283	16.545	71058	16.545	140	50 - 200	0.0000	+/-0.50	
MPT-1343-SS8-4.5-2011-02-17 (1102218-08)			Lab File ID: 0221808.D			Analyzed: 03/03/11 22:38			
Phenanthrene-d10	138376	11.432	124200	11.432	111	50 - 200	0.0000	+/-0.50	
Perylene-d12	82522	16.545	71058	16.545	116	50 - 200	0.0000	+/-0.50	
MPT-1343-SS9-2.0-2011-02-17 (1102218-10)			Lab File ID: 0221810.D			Analyzed: 03/03/11 23:04			
Phenanthrene-d10	132296	11.432	124200	11.432	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	61230	16.545	71058	16.545	86	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06608
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MPT-1343-SS9-4.0-2011-02-17 (1102218-11)			Lab File ID: 0221811.D			Analyzed: 03/03/11 23:31			
Phenanthrene-d10	133235	11.432	124200	11.432	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	88301	16.545	71058	16.545	124	50 - 200	0.0000	+/-0.50	
MPT-1343-SS9-4.5-2011-02-17 (1102218-12)			Lab File ID: 0221812.D			Analyzed: 03/03/11 23:58			
Phenanthrene-d10	135899	11.432	124200	11.432	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	74783	16.545	71058	16.545	105	50 - 200	0.0000	+/-0.50	
MPT-1343-SS10-0.5-2011-02-18 (1102218-13)			Lab File ID: 0221813.D			Analyzed: 03/04/11 00:24			
Phenanthrene-d10	121259	11.432	124200	11.432	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	73622	16.545	71058	16.545	104	50 - 200	0.0000	+/-0.50	
MPT-1343-SS10-2.0-2011-02-18 (1102218-14)			Lab File ID: 0221814.D			Analyzed: 03/04/11 00:51			
Phenanthrene-d10	134126	11.432	124200	11.432	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	64539	16.545	71058	16.545	91	50 - 200	0.0000	+/-0.50	
MPT-1343-SS10-4.0-2011-02-18 (1102218-15)			Lab File ID: 0221815.D			Analyzed: 03/04/11 01:18			
Phenanthrene-d10	137995	11.432	124200	11.432	111	50 - 200	0.0000	+/-0.50	
Perylene-d12	80893	16.545	71058	16.545	114	50 - 200	0.0000	+/-0.50	
MPT-1343-SS11-4.5-2011-02-18 (1102218-20)			Lab File ID: 0221820.D			Analyzed: 03/04/11 01:44			
Phenanthrene-d10	141995	11.432	124200	11.432	114	50 - 200	0.0000	+/-0.50	
Perylene-d12	72207	16.545	71058	16.545	102	50 - 200	0.0000	+/-0.50	
MPT-1343-SS8-0.5-2011-02-17 (1102218-05)			Lab File ID: 0221805D.D			Analyzed: 03/04/11 02:38			
Phenanthrene-d10	129523	11.432	124200	11.432	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	79563	16.545	71058	16.545	112	50 - 200	0.0000	+/-0.50	
MPT-1343-SS10-4.5-2011-02-18 (1102218-16)			Lab File ID: 0221816D.D			Analyzed: 03/04/11 03:31			
Phenanthrene-d10	135360	11.432	124200	11.432	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	75327	16.545	71058	16.545	106	50 - 200	0.0000	+/-0.50	
MPT-1343-SS11-0.5-2011-02-18 (1102218-17)			Lab File ID: 0221817D.D			Analyzed: 03/04/11 03:58			
Phenanthrene-d10	133451	11.432	124200	11.432	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	69861	16.545	71058	16.545	98	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06609
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06609-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/07/11 09:26			
Phenanthrene-d10	153091	11.395	106904	11.432	143	50 - 200	-0.0370	+/-0.50	
Perylene-d12	119167	16.498	80420	16.536	148	50 - 200	-0.0380	+/-0.50	
MPT-1343-SS7-0.5-2011-02-17 (1102218-01)			Lab File ID: 0221801.D			Analyzed: 03/07/11 09:52			
Phenanthrene-d10	142328	11.394	153091	11.395	93	50 - 200	-0.0010	+/-0.50	
Perylene-d12	69822	16.498	119167	16.498	59	50 - 200	0.0000	+/-0.50	
MPT-1343-SS9-0.5-2011-02-17 (1102218-09)			Lab File ID: 0221809.D			Analyzed: 03/07/11 10:19			
Phenanthrene-d10	160486	11.394	153091	11.395	105	50 - 200	-0.0010	+/-0.50	
Perylene-d12	69582	16.498	119167	16.498	58	50 - 200	0.0000	+/-0.50	
Matrix Spike (1B23012-MS1)			Lab File ID: 0221801M.D			Analyzed: 03/07/11 11:13			
Phenanthrene-d10	159171	11.395	153091	11.395	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	73955	16.508	119167	16.498	62	50 - 200	0.0100	+/-0.50	
Matrix Spike Dup (1B23012-MSD1)			Lab File ID: 0221801S.D			Analyzed: 03/07/11 11:40			
Phenanthrene-d10	157974	11.395	153091	11.395	103	50 - 200	0.0000	+/-0.50	
Perylene-d12	68070	16.508	119167	16.498	57	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.2	0.8535207	0.5	0.873421	1	0.9064357	5	0.8395738	10	0.784535	20	0.8168652
Acenaphthylene	0.2	1.382044	0.5	1.218477	1	1.435272	5	1.311268	10	1.208637	20	1.217291
Anthracene	0.2	1.058534	0.5	1.093939	1	1.125915	5	1.133941	10	1.170225	20	1.132615
Benzo(a)anthracene	0.2	0.6476147	0.5	0.7623581	1	0.8156699	5	0.8984042	10	1.054533	20	0.8423353
Benzo(a)pyrene	0.2	1.02565	0.5	1.014554	1	1.005352	5	1.046623	10	1.13987	20	1.083464
Benzo(b)fluoranthene	0.2	1.352174	0.5	1.123357	1	1.241503	5	1.234178	10	1.470413	20	1.430442
Benzo(g,h,i)perylene	0.2	1.25079	0.5	0.9738602	1	0.9538002	5	0.8937802	10	0.8523731	20	0.9100527
Benzo(k)fluoranthene	0.2	1.25079	0.5	1.187413	1	1.228864	5	1.399423	10	1.350928	20	1.327367
Chrysene	0.2	0.7374538	0.5	0.8493865	1	0.842695	5	0.9126712	10	1.060452	20	0.7892754
Dibenz(a,h)anthracene	0.2	0.9186101	0.5	0.772847	1	0.7332764	5	0.807053	10	0.8074299	20	0.8601228
Fluoranthene	0.2	1.051742	0.5	1.162418	1	1.179913	5	1.225501	10	1.272376	20	1.210129
Fluorene	0.2	0.7020536	0.5	0.7674959	1	0.8242432	5	0.8055957	10	0.8027371	20	0.8141917
2-Fluorobiphenyl	0.2	0.9678027	0.5	0.9267382	1	0.971158	5	0.9172978	10	0.8347461	20	0.8721172
Indeno(1,2,3-cd)pyrene	0.2	1.19648	0.5	1.0475	1	1.041161	5	1.035051	10	1.034813	20	1.078813
1-Methylnaphthalene	0.2	1.063294	0.5	0.9409067	1	0.9548364	5	0.8620632	10	0.8000648	20	0.8432121
2-Methylnaphthalene	0.2	1.091703	0.5	0.9503314	1	0.953009	5	0.8485033	10	0.790738	20	0.8347751
Naphthalene	0.2	1.685474	0.5	1.472423	1	1.51616	5	1.341546	10	1.240043	20	1.318205
Phenanthrene	0.2	1.134937	0.5	1.1581	1	1.184863	5	1.175284	10	1.202262	20	1.17303
Pyrene	0.2	1.092794	0.5	1.147446	1	1.174827	5	1.234693	10	1.289576	20	1.223257
Terphenyl-d14	0.2	0.6118179	0.5	0.7063144	1	0.7228992	5	0.7705175	10	0.8117648	20	0.7422102
2,4,6-Tribromophenol	0.4	~~6.326415E-02~~	1	~~8.579129E-02~~	2	~~0.1089983~~	10	0.1584169	20	0.1656128	40	0.175367
1,4-Dichlorobenzene-d4	1		1		1		1		1		1	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	40	0.7820316	50	0.7652934								
Acenaphthylene	40	1.094458	50	1.018169								
Anthracene	40	1.152126	50	1.196303								
Benzo(a)anthracene	40	1.003107	50	0.9291589								
Benzo(a)pyrene	40	1.080537	50	1.058466								
Benzo(b)fluoranthene	40	1.335067	50	1.516975								
Benzo(g,h,i)perylene	40	0.9253269	50	0.8257036								
Benzo(k)fluoranthene	40	1.386509	50	1.229503								
Chrysene	40	0.9474654	50	0.8935192								
Dibenz(a,h)anthracene	40	0.8924079	50	0.7981977								
Fluoranthene	40	1.255338	50	1.219358								
Fluorene	40	0.7859858	50	0.8053954								
2-Fluorobiphenyl	40	0.8111573	50	0.8142831								
Indeno(1,2,3-cd)pyrene	40	1.109845	50	0.9998711								
1-Methylnaphthalene	40	0.7771338	50	0.7467535								
2-Methylnaphthalene	40	0.7827356	50	0.7506397								
Naphthalene	40	1.179985	50	1.155622								
Phenanthrene	40	1.176864	50	1.189216								
Pyrene	40	1.276995	50	1.213951								
Terphenyl-d14	40	0.8018532	50	0.7661409								
2,4,6-Tribromophenol	80	0.1735388	100	0.164136								
1,4-Dichlorobenzene-d4	1		1									

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1061004	Instrument:	MS-BNA4
Matrix:	Water	Calibration Date:	2/28/2011 7:58:20PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8277096	5.964029	9.633875	8.915397E-02			CCC (30)	
Acenaphthylene	1.235702	11.26304	9.425	6.665902E-02			15	
Anthracene	1.13295	3.786272	11.52837	6.266625E-02			15	
Benzo(a)anthracene	0.8691476	15.11626	14.71213	5.462316E-02	0.9952477		0.995	
Benzo(a)pyrene	1.056815	4.183578	16.4705	5.396188E-02			CCC (30)	
Benzo(b)fluoranthene	1.338014	9.966544	16.07662	5.173099E-02			15	
Benzo(g,h,i)perylene	0.9482109	13.88728	18.45625	7.723512E-02			15	
Benzo(k)fluoranthene	1.2951	6.235241	16.108	5.845528E-02			15	
Chrysene	0.8791148	11.31297	14.76	4.591394E-02			15	
Dibenz(a,h)anthracene	0.8237431	7.540873	18.024	5.675539E-02			15	
Fluoranthene	1.197097	5.749219	12.9345	5.235663E-02			CCC (30)	
Fluorene	0.7884623	4.944379	10.27338	6.435991E-02			15	
2-Fluorobiphenyl	0.8894126	7.367129	8.767375	5.071162E-02			15	
Indeno(1,2,3-cd)pyrene	1.067942	5.744412	18.02163	5.897508E-02			15	
1-Methylnaphthalene	0.8735331	12.15937	8.4405	5.284201E-02			15	
2-Methylnaphthalene	0.8753044	13.10583	8.321125	5.827663E-02			15	
Naphthalene	1.363682	13.39317	7.482125	3.967633E-02			15	
Phenanthrene	1.17432	1.744274	11.461	5.511778E-02			15	
Pyrene	1.206692	5.463181	13.21437	5.315315E-02			15	
Terphenyl-d14	0.7416898	8.59253	13.40512	3.369558E-02			15	
2,4,6-Tribromophenol	0.1674143	4.178063	10.5764	9.131494E-02			15	
1,4-Dichlorobenzene-d4							15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06115	Injection Date:	03/01/11
Lab Sample ID:	1C06115-ICV1	Injection Time:	12:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.234	0.8277096	0.8665216		4.7	20
Acenaphthylene	A	5.000	5.787	1.235702	1.430186		15.7	20
Anthracene	A	5.000	5.426	1.13295	1.229415		8.5	20
Benzo(a)anthracene	L	5.000	4.970	0.8691476	0.9136814		-0.6	20
Benzo(a)pyrene	A	5.000	5.399	1.056815	1.141205		8.0	20
Benzo(b)fluoranthene	A	5.000	4.866	1.338014	1.302123		-2.7	20
Benzo(g,h,i)perylene	A	5.000	4.830	0.9482109	0.9159273		-3.4	20
Benzo(k)fluoranthene	A	5.000	5.796	1.2951	1.501354		15.9	20
Chrysene	A	5.000	5.406	0.8791148	0.9505258		8.1	20
Dibenz(a,h)anthracene	A	5.000	4.789	0.8237431	0.7889492		-4.2	20
Fluoranthene	A	5.000	5.284	1.197097	1.265188		5.7	20
Fluorene	A	5.000	5.335	0.7884623	0.8413243		6.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.885	1.067942	1.043478		-2.3	20
1-Methylnaphthalene	A	5.000	5.030	0.8735331	0.8786867		0.6	20
2-Methylnaphthalene	A	5.000	5.052	0.8753044	0.88448		1.0	20
Naphthalene	A	5.000	5.217	1.363682	1.422778		4.3	20
Phenanthrene	A	5.000	5.384	1.17432	1.264507		7.7	20
Pyrene	A	5.000	5.486	1.206692	1.324032		9.7	20
2-Fluorobiphenyl	A	5.000	5.477	0.8894126	0.974327		9.5	20
Terphenyl-d14	A	5.000	5.816	0.7416898	0.8626973		16.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06608	Injection Date:	03/03/11
Lab Sample ID:	1C06608-CCV1	Injection Time:	17:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.198	0.8277096	0.8604461		4.0	20
Acenaphthylene	A	5.000	5.605	1.235702	1.385322		12.1	20
Anthracene	A	5.000	5.726	1.13295	1.297436		14.5	20
Benzo(a)anthracene	L	5.000	4.266	0.8691476	0.778818		-14.7	20
Benzo(a)pyrene	A	5.000	5.810	1.056815	1.227997		16.2	20
Benzo(b)fluoranthene	A	5.000	5.241	1.338014	1.402452		4.8	20
Benzo(g,h,i)perylene	A	5.000	5.013	0.9482109	0.9506262		0.3	20
Benzo(k)fluoranthene	A	5.000	5.902	1.2951	1.528743		18.0	20
Chrysene	A	5.000	5.320	0.8791148	0.9354815		6.4	20
Dibenz(a,h)anthracene	A	5.000	4.281	0.8237431	0.7052436		-14.4	20
Fluoranthene	A	5.000	5.314	1.197097	1.272198		6.3	20
Fluorene	A	5.000	5.375	0.7884623	0.8476779		7.5	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.624	1.067942	0.9877114		-7.5	20
1-Methylnaphthalene	A	5.000	5.273	0.8735331	0.921306		5.5	20
2-Methylnaphthalene	A	5.000	5.563	0.8753044	0.9738969		11.3	20
Naphthalene	A	5.000	5.452	1.363682	1.487011		9.0	20
Phenanthrene	A	5.000	5.337	1.17432	1.253564		6.7	20
Pyrene	A	5.000	5.525	1.206692	1.333383		10.5	20
2-Fluorobiphenyl	A	5.000	5.732	0.8894126	1.019717		14.7	20
Terphenyl-d14	A	5.000	5.381	0.7416898	0.7981723		7.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06609	Injection Date:	03/07/11
Lab Sample ID:	1C06609-CCV1	Injection Time:	09:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	5.424	0.8277096	0.8978503		8.5	20	
Acenaphthylene	A	5.000	5.913	1.235702	1.461394		18.3	20	
Anthracene	A	5.000	5.705	1.13295	1.292612		14.1	20	
Benzo(a)anthracene	L	5.000	6.066	0.8691476	1.123534		21.3	20	*
Benzo(a)pyrene	A	5.000	5.323	1.056815	1.125061		6.5	20	
Benzo(b)fluoranthene	A	5.000	5.053	1.338014	1.352139		1.1	20	
Benzo(g,h,i)perylene	A	5.000	4.400	0.9482109	0.8344156		-12.0	20	
Benzo(k)fluoranthene	A	5.000	5.293	1.2951	1.371094		5.9	20	
Chrysene	A	5.000	6.304	0.8791148	1.108393		26.1	20	*
Dibenz(a,h)anthracene	A	5.000	4.179	0.8237431	0.6884188		-16.4	20	
Fluoranthene	A	5.000	5.863	1.197097	1.403813		17.3	20	
Fluorene	A	5.000	5.290	0.7884623	0.8341914		5.8	20	
Indeno(1,2,3-cd)pyrene	A	5.000	4.313	1.067942	0.921292		-13.7	20	
1-Methylnaphthalene	A	5.000	4.981	0.8735331	0.8702719		-0.4	20	
2-Methylnaphthalene	A	5.000	4.646	0.8753044	0.813311		-7.1	20	
Naphthalene	A	5.000	4.732	1.363682	1.290502		-5.4	20	
Phenanthrene	A	5.000	5.379	1.17432	1.263317		7.6	20	
Pyrene	A	5.000	6.196	1.206692	1.49545		23.9	20	*
2-Fluorobiphenyl	A	5.000	5.022	0.8894126	0.8933536		0.4	20	
Terphenyl-d14	A	5.000	6.197	0.7416898	0.9192141		23.9	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23012-BLK1 File ID: B23012B1.D

Sampled: Prepared: Analyzed: 03/03/11 18:37

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.67	3.33	6.67	U
208-96-8	Acenaphthylene		1.67	3.33	6.67	U
120-12-7	Anthracene		1.67	3.33	6.67	U
56-55-3	Benzo(a)anthracene		1.67	3.33	6.67	U
50-32-8	Benzo(a)pyrene		1.67	3.33	6.67	U
205-99-2	Benzo(b)fluoranthene		1.67	3.33	6.67	U
191-24-2	Benzo(g,h,i)perylene		1.67	3.33	6.67	U
207-08-9	Benzo(k)fluoranthene		1.67	3.33	6.67	U
218-01-9	Chrysene		1.67	3.33	6.67	U
53-70-3	Dibenz(a,h)anthracene		1.67	3.33	6.67	U
206-44-0	Fluoranthene		1.67	3.33	6.67	U
86-73-7	Fluorene		1.67	3.33	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.67	3.33	6.67	U
90-12-0	1-Methylnaphthalene		1.67	3.33	6.67	U
91-57-6	2-Methylnaphthalene		1.67	3.33	6.67	U
91-20-3	Naphthalene		1.67	3.33	6.67	U
85-01-8	Phenanthrene		1.67	3.33	6.67	U
129-00-0	Pyrene		1.67	3.33	6.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	3094	92.8	14 - 129	
Terphenyl-d14	3333	2989	89.7	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23012-BS1 File ID: B23012L1.D

Sampled: Prepared: Analyzed: 03/03/11 19:04

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23012 Sequence: 1C06608 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	56.80	1.67	3.33	6.67	
208-96-8	Acenaphthylene	52.32	1.67	3.33	6.67	
120-12-7	Anthracene	59.63	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	54.51	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	54.41	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	51.38	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	50.69	1.67	3.33	6.67	
207-08-9	Benzo(k)fluoranthene	72.35	1.67	3.33	6.67	
218-01-9	Chrysene	61.66	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	32.48	1.67	3.33	6.67	
206-44-0	Fluoranthene	57.58	1.67	3.33	6.67	
86-73-7	Fluorene	59.39	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	35.05	1.67	3.33	6.67	
90-12-0	1-Methylnaphthalene	62.36	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	59.67	1.67	3.33	6.67	
91-20-3	Naphthalene	56.54	1.67	3.33	6.67	
85-01-8	Phenanthrene	55.89	1.67	3.33	6.67	
129-00-0	Pyrene	59.92	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2762	82.8	14 - 129	
Terphenyl-d14	3333	2948	88.4	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23012-MS1 File ID: 0221801M.D

Sampled: Prepared: Analyzed: 03/07/11 11:13

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23012 Sequence: 1C06609 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	62.53	1.81	3.60	7.22	
208-96-8	Acenaphthylene	57.12	1.81	3.60	7.22	
120-12-7	Anthracene	63.82	1.81	3.60	7.22	
56-55-3	Benzo(a)anthracene	64.70	1.81	3.60	7.22	X
50-32-8	Benzo(a)pyrene	60.93	1.81	3.60	7.22	
205-99-2	Benzo(b)fluoranthene	68.33	1.81	3.60	7.22	
191-24-2	Benzo(g,h,i)perylene	54.31	1.81	3.60	7.22	
207-08-9	Benzo(k)fluoranthene	65.67	1.81	3.60	7.22	
218-01-9	Chrysene	53.80	1.81	3.60	7.22	X
53-70-3	Dibenz(a,h)anthracene	55.99	1.81	3.60	7.22	
206-44-0	Fluoranthene	65.95	1.81	3.60	7.22	
86-73-7	Fluorene	66.06	1.81	3.60	7.22	
193-39-5	Indeno(1,2,3-cd)pyrene	56.22	1.81	3.60	7.22	
90-12-0	1-Methylnaphthalene	65.51	1.81	3.60	7.22	
91-57-6	2-Methylnaphthalene	60.70	1.81	3.60	7.22	
91-20-3	Naphthalene	55.26	1.81	3.60	7.22	
85-01-8	Phenanthrene	70.50	1.81	3.60	7.22	
129-00-0	Pyrene	63.86	1.81	3.60	7.22	X

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3606	2726	75.6	14 - 129	
Terphenyl-d14	3606	2909	80.7	14 - 129	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23012-MSD1 File ID: 0221801S.D

Sampled: Prepared: Analyzed: 03/07/11 11:40

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23012 Sequence: 1C06609 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	58.42	1.78	3.56	7.12	
208-96-8	Acenaphthylene	54.80	1.78	3.56	7.12	
120-12-7	Anthracene	66.99	1.78	3.56	7.12	
56-55-3	Benzo(a)anthracene	65.31	1.78	3.56	7.12	X
50-32-8	Benzo(a)pyrene	60.64	1.78	3.56	7.12	
205-99-2	Benzo(b)fluoranthene	69.07	1.78	3.56	7.12	
191-24-2	Benzo(g,h,i)perylene	50.88	1.78	3.56	7.12	
207-08-9	Benzo(k)fluoranthene	67.76	1.78	3.56	7.12	
218-01-9	Chrysene	54.24	1.78	3.56	7.12	X
53-70-3	Dibenz(a,h)anthracene	53.30	1.78	3.56	7.12	
206-44-0	Fluoranthene	65.46	1.78	3.56	7.12	
86-73-7	Fluorene	63.43	1.78	3.56	7.12	
193-39-5	Indeno(1,2,3-cd)pyrene	53.61	1.78	3.56	7.12	
90-12-0	1-Methylnaphthalene	68.33	1.78	3.56	7.12	
91-57-6	2-Methylnaphthalene	61.49	1.78	3.56	7.12	
91-20-3	Naphthalene	54.18	1.78	3.56	7.12	
85-01-8	Phenanthrene	64.78	1.78	3.56	7.12	
129-00-0	Pyrene	65.90	1.78	3.56	7.12	X

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3559	2616	73.5	14 - 129	
Terphenyl-d14	3559	2934	82.4	14 - 129	X

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS7-0.5-2011-02-17	02/17/11 12:05	02/21/11 08:45	02/25/11 09:31	7.93	14.00	03/07/11 09:52	10.01	40.00	
MPT-1343-SS7-2.0-2011-02-17	02/17/11 12:10	02/21/11 08:45	02/25/11 09:31	7.93	14.00	03/03/11 20:25	6.45	40.00	
MPT-1343-SS7-4.0-2011-02-17	02/17/11 12:20	02/21/11 08:45	02/25/11 09:31	7.92	14.00	03/03/11 20:51	6.47	40.00	
MPT-1343-SS7-4.5-2011-02-17	02/17/11 12:25	02/21/11 08:45	02/25/11 09:31	7.92	14.00	03/03/11 21:18	6.49	40.00	
MPT-1343-SS8-0.5-2011-02-17	02/17/11 14:00	02/21/11 08:45	02/25/11 09:31	7.85	14.00	03/04/11 02:38	6.71	40.00	
MPT-1343-SS8-2.0-2011-02-17	02/17/11 14:05	02/21/11 08:45	02/25/11 09:31	7.85	14.00	03/03/11 21:45	6.51	40.00	
MPT-1343-SS8-4.0-2011-02-17	02/17/11 14:15	02/21/11 08:45	02/25/11 09:31	7.84	14.00	03/03/11 22:11	6.53	40.00	
MPT-1343-SS8-4.5-2011-02-17	02/17/11 14:20	02/21/11 08:45	02/25/11 09:31	7.84	14.00	03/03/11 22:38	6.55	40.00	
MPT-1343-SS9-0.5-2011-02-17	02/17/11 15:15	02/21/11 08:45	02/25/11 09:31	7.80	14.00	03/07/11 10:19	10.03	40.00	
MPT-1343-SS9-2.0-2011-02-17	02/17/11 15:20	02/21/11 08:45	02/25/11 09:31	7.80	14.00	03/03/11 23:04	6.56	40.00	
MPT-1343-SS9-4.0-2011-02-17	02/17/11 15:30	02/21/11 08:45	02/25/11 09:31	7.79	14.00	03/03/11 23:31	6.58	40.00	
MPT-1343-SS9-4.5-2011-02-17	02/17/11 15:35	02/21/11 08:45	02/25/11 09:31	7.79	14.00	03/03/11 23:58	6.60	40.00	
MPT-1343-SS10-0.5-2011-02-18	02/18/11 09:10	02/21/11 08:45	02/25/11 09:31	7.06	14.00	03/04/11 00:24	6.62	40.00	
MPT-1343-SS10-2.0-2011-02-18	02/18/11 09:15	02/21/11 08:45	02/25/11 09:31	7.05	14.00	03/04/11 00:51	6.64	40.00	
MPT-1343-SS10-4.0-2011-02-18	02/18/11 09:25	02/21/11 08:45	02/25/11 09:31	7.05	14.00	03/04/11 01:18	6.66	40.00	
MPT-1343-SS10-4.5-2011-02-18	02/18/11 09:30	02/21/11 08:45	02/25/11 09:31	7.04	14.00	03/04/11 03:31	6.75	40.00	
MPT-1343-SS11-0.5-2011-02-18	02/18/11 10:00	02/21/11 08:45	02/25/11 09:31	7.02	14.00	03/04/11 03:58	6.77	40.00	
MPT-1343-SS11-2.0-2011-02-18	02/18/11 10:05	02/21/11 08:45	02/25/11 09:31	7.02	14.00	03/03/11 19:31	6.42	40.00	
MPT-1343-SS11-4.0-2011-02-18	02/18/11 10:15	02/21/11 08:45	02/25/11 09:31	7.01	14.00	03/03/11 19:58	6.44	40.00	
MPT-1343-SS11-4.5-2011-02-18	02/18/11 10:20	02/21/11 08:45	02/25/11 09:31	7.01	14.00	03/04/11 01:44	6.68	40.00	

Data for FLPRO Forms

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05902-CAL6	002F0201.D	02/25/11 12:08
Cal Standard	1B05902-CAL5	003F0301.D	02/25/11 12:50
Cal Standard	1B05902-CAL4	004F0401.D	02/25/11 13:32
Cal Standard	1B05902-CAL3	005F0501.D	02/25/11 14:15
Cal Standard	1B05902-CAL2	006F0601.D	02/25/11 14:57
Cal Standard	1B05902-CAL1	007F0701.D	02/25/11 15:39
Initial Cal Check	1B05902-ICV1	002F0201.D	02/27/11 14:40

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06101
Instrument: GL-GCFID2
Calibration: 1059001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06101-CCV1	017F1701.D	03/01/11 00:00
Blank	1B23011-BLK1	018F1801.D	03/01/11 00:43
LCS	1B23011-BS1	019F1901.D	03/01/11 01:25
MPT-1343-SS7-0.5-2011-02-17	1102218-01	020F2001.D	03/01/11 02:07
MPT-1343-SS7-0.5-2011-02-17	1B23011-MS1	021F2101.D	03/01/11 02:49
MPT-1343-SS7-0.5-2011-02-17	1B23011-MSD1	022F2201.D	03/01/11 03:31
MPT-1343-SS7-2.0-2011-02-17	1102218-02	023F2301.D	03/01/11 04:13
MPT-1343-SS7-4.0-2011-02-17	1102218-03	024F2401.D	03/01/11 04:56
MPT-1343-SS7-4.5-2011-02-17	1102218-04	025F2501.D	03/01/11 05:38
MPT-1343-SS8-0.5-2011-02-17	1102218-05	026F2601.D	03/01/11 06:20
MPT-1343-SS8-2.0-2011-02-17	1102218-06	027F2701.D	03/01/11 07:02
MPT-1343-SS8-4.0-2011-02-17	1102218-07	028F2801.D	03/01/11 07:44
MPT-1343-SS8-4.5-2011-02-17	1102218-08	029F2901.D	03/01/11 08:26
MPT-1343-SS9-0.5-2011-02-17	1102218-09	030F3001.D	03/01/11 09:08
MPT-1343-SS9-2.0-2011-02-17	1102218-10	031F3101.D	03/01/11 09:51
Calibration Check	1C06101-CCV2	032F3201.D	03/01/11 10:33
MPT-1343-SS9-4.0-2011-02-17	1102218-11	033F3301.D	03/01/11 11:21
MPT-1343-SS9-4.5-2011-02-17	1102218-12	034F3401.D	03/01/11 12:03
MPT-1343-SS10-0.5-2011-02-18	1102218-13	035F3501.D	03/01/11 12:45
MPT-1343-SS10-2.0-2011-02-18	1102218-14	036F3601.D	03/01/11 13:28
MPT-1343-SS10-4.0-2011-02-18	1102218-15	037F3701.D	03/01/11 14:10
MPT-1343-SS10-4.5-2011-02-18	1102218-16	038F3801.D	03/01/11 14:53
MPT-1343-SS11-0.5-2011-02-18	1102218-17	039F3901.D	03/01/11 15:35
MPT-1343-SS11-2.0-2011-02-18	1102218-18	040F4001.D	03/01/11 16:17
MPT-1343-SS11-4.0-2011-02-18	1102218-19	041F4101.D	03/01/11 16:59
MPT-1343-SS11-4.5-2011-02-18	1102218-20	042F4201.D	03/01/11 17:42
Calibration Check	1C06101-CCV3	043F4301.D	03/01/11 18:24
Calibration Check	1C06101-CCV4	051F5101.D	03/02/11 00:01

ANALYSIS DATA SHEET

MPT-1343-SS7-0.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-01	File ID:	020F2001.D
Sampled:	02/17/11 12:05	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 02:07
Solids:	90.63	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	53.6	11.5	22.9	45.8	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.470	3.187	91.8	50 - 150	
o-Terphenyl	3.470	3.207	92.4	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS7-2.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-02	File ID:	023F2301.D
Sampled:	02/17/11 12:10	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 04:13
Solids:	92.88	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	81.1	11.4	22.8	45.5	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.451	3.354	97.2	50 - 150	
o-Terphenyl	3.451	3.504	102	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS7-4.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-03	File ID:	024F2401.D
Sampled:	02/17/11 12:20	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 04:56
Solids:	89.77	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	61.6	11.8	23.6	47.1	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.570	3.806	107	50 - 150	
o-Terphenyl	3.570	3.491	97.8	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS7-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-04	File ID:	025F2501.D
Sampled:	02/17/11 12:25	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 05:38
Solids:	86.58	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	259	12.6	25.2	50.5	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.824	4.130	108	50 - 150	
o-Terphenyl	3.824	3.831	100	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS8-0.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-05	File ID:	026F2601.D
Sampled:	02/17/11 14:00	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 06:20
Solids:	88.92	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	53.1	12.4	24.7	49.5	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.749	3.205	85.5	50 - 150	
o-Terphenyl	3.749	3.396	90.6	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS8-2.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-06	File ID:	027F2701.D
Sampled:	02/17/11 14:05	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 07:02
Solids:	76.43	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	46.6	14.0	28.0	56.1	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.248	3.420	80.5	50 - 150	
o-Terphenyl	4.248	3.593	84.6	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS8-4.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-07	File ID:	028F2801.D
Sampled:	02/17/11 14:15	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 07:44
Solids:	82.81	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	46.8	12.7	25.4	50.8	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.846	3.574	92.9	50 - 150	
o-Terphenyl	3.846	3.568	92.8	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS8-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-08	File ID:	029F2901.D
Sampled:	02/17/11 14:20	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 08:26
Solids:	80.57	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	49.1	13.1	26.3	52.5	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.978	4.946	124	50 - 150	
o-Terphenyl	3.978	3.531	88.7	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS9-0.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-09	File ID:	030F3001.D
Sampled:	02/17/11 15:15	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 09:08
Solids:	89.37	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	46.1	11.7	23.4	46.7	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.541	3.581	101	50 - 150	
o-Terphenyl	3.541	3.530	99.7	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS9-2.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-10	File ID:	031F3101.D
Sampled:	02/17/11 15:20	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 09:51
Solids:	88.14	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	55.3	12.3	24.6	49.3	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.732	3.852	103	50 - 150	
o-Terphenyl	3.732	3.700	99.2	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS9-4.0-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-11	File ID:	033F3301.D
Sampled:	02/17/11 15:30	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 11:21
Solids:	85.35	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	63.9	12.7	25.4	50.9	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.854	3.595	93.3	50 - 150	
o-Terphenyl	3.854	3.374	87.5	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS9-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-12	File ID:	034F3401.D
Sampled:	02/17/11 15:35	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 12:03
Solids:	88.14	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	81.7	12.1	24.2	48.3	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.660	3.470	94.8	50 - 150	
o-Terphenyl	3.660	3.365	91.9	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS10-0.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-13	File ID:	035F3501.D
Sampled:	02/18/11 09:10	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 12:45
Solids:	90.37	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	60.8	12.0	24.0	48.1	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.640	3.449	94.7	50 - 150	
o-Terphenyl	3.640	3.505	96.3	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS10-2.0-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-14	File ID:	036F3601.D
Sampled:	02/18/11 09:15	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 13:28
Solids:	88.71	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	59.3	12.3	24.6	49.3	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.733	3.407	91.3	50 - 150	
o-Terphenyl	3.733	3.445	92.3	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS10-4.0-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-15	File ID:	037F3701.D
Sampled:	02/18/11 09:25	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 14:10
Solids:	86.90	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	70.5	12.6	25.1	50.3	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.811	3.581	94.0	50 - 150	
o-Terphenyl	3.811	3.499	91.8	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS10-4.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-16	File ID:	038F3801.D
Sampled:	02/18/11 09:30	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 14:53
Solids:	84.45	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	56.1	12.9	25.7	51.4	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.895	3.510	90.1	50 - 150	
o-Terphenyl	3.895	3.496	89.7	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS11-0.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-17	File ID:	039F3901.D
Sampled:	02/18/11 10:00	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 15:35
Solids:	90.67	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	179	11.7	23.3	46.7	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.535	3.505	99.2	50 - 150	
o-Terphenyl	3.535	3.220	91.1	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS11-2.0-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-18	File ID:	040F4001.D
Sampled:	02/18/11 10:05	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 16:17
Solids:	90.64	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	45.7	11.8	23.6	47.3	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.582	3.237	90.4	50 - 150	
o-Terphenyl	3.582	3.191	89.1	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS11-4.0-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-19	File ID:	041F4101.D
Sampled:	02/18/11 10:15	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 16:59
Solids:	87.44	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	38.5	12.3	24.7	49.3	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.737	3.096	82.8	50 - 150	
o-Terphenyl	3.737	3.196	85.5	35 - 140	

ANALYSIS DATA SHEET

MPT-1343-SS11-4.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-20	File ID:	042F4201.D
Sampled:	02/18/11 10:20	Prepared:	02/25/11 12:56	Analyzed:	03/01/11 17:42
Solids:	80.24	Preparation:	EXT_3546	Dilution:	1
Batch:	1B23011	Sequence:	1C06101	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	44.9	13.4	26.7	53.4	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.046	3.845	95.0	50 - 150	
o-Terphenyl	4.046	3.774	93.3	35 - 140	

LCS / LCS DUPLICATE RECOVERY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B23011	Laboratory ID:	1B23011-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 2 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	213.3	232.0	109	50 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FLPRO

MPT-1343-SS7-0.5-2011-02-17

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix: Solid
Batch: 1B23011
% Solids: 90.63
Source Sample Name: **1102218-01**

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Petroleum Range Organics	227.8	53.62	314.7	115		50 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	223.5	315.5	117	0.263		40	50 - 140

PREPARATION BATCH SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B23011 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS7-0.5-2011-02-17	1102218-01	02/25/11 12:56	15.90	2.00
MPT-1343-SS7-2.0-2011-02-17	1102218-02	02/25/11 12:56	15.60	2.00
MPT-1343-SS7-4.0-2011-02-17	1102218-03	02/25/11 12:56	15.60	2.00
MPT-1343-SS7-4.5-2011-02-17	1102218-04	02/25/11 12:56	15.10	2.00
MPT-1343-SS8-0.5-2011-02-17	1102218-05	02/25/11 12:56	15.00	2.00
MPT-1343-SS8-2.0-2011-02-17	1102218-06	02/25/11 12:56	15.40	2.00
MPT-1343-SS8-4.0-2011-02-17	1102218-07	02/25/11 12:56	15.70	2.00
MPT-1343-SS8-4.5-2011-02-17	1102218-08	02/25/11 12:56	15.60	2.00
MPT-1343-SS9-0.5-2011-02-17	1102218-09	02/25/11 12:56	15.80	2.00
MPT-1343-SS9-2.0-2011-02-17	1102218-10	02/25/11 12:56	15.20	2.00
MPT-1343-SS9-4.0-2011-02-17	1102218-11	02/25/11 12:56	15.20	2.00
MPT-1343-SS9-4.5-2011-02-17	1102218-12	02/25/11 12:56	15.50	2.00
MPT-1343-SS10-0.5-2011-02-18	1102218-13	02/25/11 12:56	15.20	2.00
MPT-1343-SS10-2.0-2011-02-18	1102218-14	02/25/11 12:56	15.10	2.00
MPT-1343-SS10-4.0-2011-02-18	1102218-15	02/25/11 12:56	15.10	2.00
MPT-1343-SS10-4.5-2011-02-18	1102218-16	02/25/11 12:56	15.20	2.00
MPT-1343-SS11-0.5-2011-02-18	1102218-17	02/25/11 12:56	15.60	2.00
MPT-1343-SS11-2.0-2011-02-18	1102218-18	02/25/11 12:56	15.40	2.00
MPT-1343-SS11-4.0-2011-02-18	1102218-19	02/25/11 12:56	15.30	2.00
MPT-1343-SS11-4.5-2011-02-18	1102218-20	02/25/11 12:56	15.40	2.00
Blank	1B23011-BLK1	02/25/11 12:56	15.00	2.00
LCS	1B23011-BS1	02/25/11 12:56	15.00	2.00
MPT-1343-SS7-0.5-2011-02-17	1B23011-MS1	02/25/11 12:56	15.50	2.00
MPT-1343-SS7-0.5-2011-02-17	1B23011-MSD1	02/25/11 12:56	15.80	2.00

INITIAL CALIBRATION STANDARDS

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0728	FLPRO CAL6 85ppm	1B05902-CAL6	002F0201.D	02/25/11 12:08
11B0727	FLPRO CAL5 850ppm	1B05902-CAL5	003F0301.D	02/25/11 12:50
11B0726	FLPRO CAL4 2550ppm	1B05902-CAL4	004F0401.D	02/25/11 13:32
11B0725	FLPRO CAL3 4250ppm	1B05902-CAL3	005F0501.D	02/25/11 14:15
11B0724	FLPRO CAL2 5950ppm	1B05902-CAL2	006F0601.D	02/25/11 14:57
11B0723	FLPRO CAL1 8500ppm	1B05902-CAL1	007F0701.D	02/25/11 15:39

INITIAL CALIBRATION DATA

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Petroleum Range Organics	85	1001.176	850	1377.509	2550	1446.599	4250	1488.03	5950	1412.965	8500	1418.286
2-Fluorobiphenyl	5	1558.6	10	1409.6	15	1829.333	25	2032.88	35	2127.686	50	2181.72
o-Terphenyl	5	2387.8	10	2409.2	15	2548.533	25	2526	35	2565.572	50	2515.5

INITIAL CALIBRATION DATA (Continued)

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Petroleum Range Organics	1357.428	13.14176	2.64	1.458778E-02			20	
2-Fluorobiphenyl	1856.637	17.02584	10.99367	0.4529372			20	
o-Terphenyl	2492.101	3.004445	16.57033	8.740256E-02			20	

INITIAL CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05902	Injection Date:	02/27/11
Lab Sample ID:	1B05902-ICV1	Injection Time:	14:40

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Petroleum Range Organics	A	4000	4130	1357.428	1401.388		3.2	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	017F1701.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/01/11
Lab Sample ID:	1C06101-CCV1	Injection Time:	00:00

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4891	1357.428	1562.059		15.1	25
2-Fluorobiphenyl	A	25.00	24.16	1856.637	1794.16		-3.4	25
o-Terphenyl	A	25.00	21.75	2492.101	2168.2		-13.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	032F3201.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/01/11
Lab Sample ID:	1C06101-CCV2	Injection Time:	10:33

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	5173	1357.428	1652.232		21.7	25
2-Fluorobiphenyl	A	25.00	24.20	1856.637	1797.28		-3.2	25
o-Terphenyl	A	25.00	21.80	2492.101	2173.2		-12.8	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	043F4301.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/01/11
Lab Sample ID:	1C06101-CCV3	Injection Time:	18:24

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4973	1357.428	1588.358		17.0	25
2-Fluorobiphenyl	A	25.00	24.19	1856.637	1796.64		-3.2	25
o-Terphenyl	A	25.00	22.10	2492.101	2203.08		-11.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	051F5101.D	Calibration Date:	02/25/11 12:08
Sequence:	1C06101	Injection Date:	03/02/11
Lab Sample ID:	1C06101-CCV4	Injection Time:	00:01

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4739	1357.428	1513.488		11.5	25
2-Fluorobiphenyl	A	25.00	22.37	1856.637	1661.64		-10.5	25
o-Terphenyl	A	25.00	21.89	2492.101	2181.96		-12.4	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

Laboratory:

Client:

Sequence:

SDG:

Project:

Instrument:

Calibration:

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06101
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06101-CCV1) mg/L				Lab File ID: 017F1701.D		Analyzed: 03/01/11 00:00		
2-Fluorobiphenyl	25.00	96.6	75 - 125	10.793	10.793	0.0000	+/-0.050	
o-Terphenyl	25.00	87.0	75 - 125	16.423	16.423	0.0000	+/-0.050	
Blank (1B23011-BLK1) mg/Kg wet				Lab File ID: 018F1801.D		Analyzed: 03/01/11 00:43		
2-Fluorobiphenyl	3.333	94.7	50 - 150	10.853	10.793	0.0600	+/-0.050	*
o-Terphenyl	3.333	93.5	35 - 140	16.44	16.423	0.0170	+/-0.050	
LCS (1B23011-BS1) mg/Kg wet				Lab File ID: 019F1901.D		Analyzed: 03/01/11 01:25		
2-Fluorobiphenyl	3.333	79.2	50 - 150	10.796	10.793	0.0030	+/-0.050	
o-Terphenyl	3.333	90.2	35 - 140	16.423	16.423	0.0000	+/-0.050	
MPT-1343-SS7-0.5-2011-02-17 (1102218-01) mg/Kg dry				Lab File ID: 020F2001.D		Analyzed: 03/01/11 02:07		
2-Fluorobiphenyl	3.470	91.8	50 - 150	10.82	10.793	0.0270	+/-0.050	
o-Terphenyl	3.470	92.4	35 - 140	16.423	16.423	0.0000	+/-0.050	
Matrix Spike (1B23011-MS1) mg/Kg dry				Lab File ID: 021F2101.D		Analyzed: 03/01/11 02:49		
2-Fluorobiphenyl	3.559	92.1	50 - 150	10.79	10.793	-0.0030	+/-0.050	
o-Terphenyl	3.559	87.3	35 - 140	16.423	16.423	0.0000	+/-0.050	
Matrix Spike Dup (1B23011-MSD1) mg/Kg dry				Lab File ID: 022F2201.D		Analyzed: 03/01/11 03:31		
2-Fluorobiphenyl	3.492	98.1	50 - 150	10.786	10.793	-0.0070	+/-0.050	
o-Terphenyl	3.492	94.6	35 - 140	16.426	16.423	0.0030	+/-0.050	
MPT-1343-SS7-2.0-2011-02-17 (1102218-02) mg/Kg dry				Lab File ID: 023F2301.D		Analyzed: 03/01/11 04:13		
2-Fluorobiphenyl	3.451	97.2	50 - 150	10.8	10.793	0.0070	+/-0.050	
o-Terphenyl	3.451	102	35 - 140	16.423	16.423	0.0000	+/-0.050	
MPT-1343-SS7-4.0-2011-02-17 (1102218-03) mg/Kg dry				Lab File ID: 024F2401.D		Analyzed: 03/01/11 04:56		
2-Fluorobiphenyl	3.570	107	50 - 150	10.79	10.793	-0.0030	+/-0.050	
o-Terphenyl	3.570	97.8	35 - 140	16.423	16.423	0.0000	+/-0.050	
MPT-1343-SS7-4.5-2011-02-17 (1102218-04) mg/Kg dry				Lab File ID: 025F2501.D		Analyzed: 03/01/11 05:38		
2-Fluorobiphenyl	3.824	108	50 - 150	10.78	10.793	-0.0130	+/-0.050	
o-Terphenyl	3.824	100	35 - 140	16.423	16.423	0.0000	+/-0.050	
MPT-1343-SS8-0.5-2011-02-17 (1102218-05) mg/Kg dry				Lab File ID: 026F2601.D		Analyzed: 03/01/11 06:20		
2-Fluorobiphenyl	3.749	85.5	50 - 150	10.82	10.793	0.0270	+/-0.050	
o-Terphenyl	3.749	90.6	35 - 140	16.426	16.423	0.0030	+/-0.050	
MPT-1343-SS8-2.0-2011-02-17 (1102218-06) mg/Kg dry				Lab File ID: 027F2701.D		Analyzed: 03/01/11 07:02		
2-Fluorobiphenyl	4.248	80.5	50 - 150	10.806	10.793	0.0130	+/-0.050	
o-Terphenyl	4.248	84.6	35 - 140	16.426	16.423	0.0030	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06101
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS8-4.0-2011-02-17 (1102218-07) mg/Kg dry				Lab File ID: 028F2801.D		Analyzed: 03/01/11 07:44		
2-Fluorobiphenyl	3.846	92.9	50 - 150	10.823	10.793	0.0300	+/-0.050	
o-Terphenyl	3.846	92.8	35 - 140	16.43	16.423	0.0070	+/-0.050	
MPT-1343-SS8-4.5-2011-02-17 (1102218-08) mg/Kg dry				Lab File ID: 029F2901.D		Analyzed: 03/01/11 08:26		
2-Fluorobiphenyl	3.978	124	50 - 150	10.8	10.793	0.0070	+/-0.050	
o-Terphenyl	3.978	88.7	35 - 140	16.426	16.423	0.0030	+/-0.050	
MPT-1343-SS9-0.5-2011-02-17 (1102218-09) mg/Kg dry				Lab File ID: 030F3001.D		Analyzed: 03/01/11 09:08		
2-Fluorobiphenyl	3.541	101	50 - 150	10.813	10.793	0.0200	+/-0.050	
o-Terphenyl	3.541	99.7	35 - 140	16.423	16.423	0.0000	+/-0.050	
MPT-1343-SS9-2.0-2011-02-17 (1102218-10) mg/Kg dry				Lab File ID: 031F3101.D		Analyzed: 03/01/11 09:51		
2-Fluorobiphenyl	3.732	103	50 - 150	10.803	10.793	0.0100	+/-0.050	
o-Terphenyl	3.732	99.2	35 - 140	16.423	16.423	0.0000	+/-0.050	
Calibration Check (1C06101-CCV2) mg/L				Lab File ID: 032F3201.D		Analyzed: 03/01/11 10:33		
2-Fluorobiphenyl	25.00	96.8	75 - 125	10.78	10.793	-0.0130	+/-0.050	
o-Terphenyl	25.00	87.2	75 - 125	16.416	16.423	-0.0070	+/-0.050	
MPT-1343-SS9-4.0-2011-02-17 (1102218-11) mg/Kg dry				Lab File ID: 033F3301.D		Analyzed: 03/01/11 11:21		
2-Fluorobiphenyl	3.854	93.3	50 - 150	10.8	10.793	0.0070	+/-0.050	
o-Terphenyl	3.854	87.5	35 - 140	16.42	16.423	-0.0030	+/-0.050	
MPT-1343-SS9-4.5-2011-02-17 (1102218-12) mg/Kg dry				Lab File ID: 034F3401.D		Analyzed: 03/01/11 12:03		
2-Fluorobiphenyl	3.660	94.8	50 - 150	10.8	10.793	0.0070	+/-0.050	
o-Terphenyl	3.660	91.9	35 - 140	16.416	16.423	-0.0070	+/-0.050	
MPT-1343-SS10-0.5-2011-02-18 (1102218-13) mg/Kg dry				Lab File ID: 035F3501.D		Analyzed: 03/01/11 12:45		
2-Fluorobiphenyl	3.640	94.7	50 - 150	10.81	10.793	0.0170	+/-0.050	
o-Terphenyl	3.640	96.3	35 - 140	16.42	16.423	-0.0030	+/-0.050	
MPT-1343-SS10-2.0-2011-02-18 (1102218-14) mg/Kg dry				Lab File ID: 036F3601.D		Analyzed: 03/01/11 13:28		
2-Fluorobiphenyl	3.733	91.3	50 - 150	10.813	10.793	0.0200	+/-0.050	
o-Terphenyl	3.733	92.3	35 - 140	16.42	16.423	-0.0030	+/-0.050	
MPT-1343-SS10-4.0-2011-02-18 (1102218-15) mg/Kg dry				Lab File ID: 037F3701.D		Analyzed: 03/01/11 14:10		
2-Fluorobiphenyl	3.811	94.0	50 - 150	10.806	10.793	0.0130	+/-0.050	
o-Terphenyl	3.811	91.8	35 - 140	16.416	16.423	-0.0070	+/-0.050	
MPT-1343-SS10-4.5-2011-02-18 (1102218-16) mg/Kg dry				Lab File ID: 038F3801.D		Analyzed: 03/01/11 14:53		
2-Fluorobiphenyl	3.895	90.1	50 - 150	10.813	10.793	0.0200	+/-0.050	
o-Terphenyl	3.895	89.7	35 - 140	16.42	16.423	-0.0030	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06101
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS11-0.5-2011-02-18 (1102218-17) mg/Kg dry				Lab File ID: 039F3901.D		Analyzed: 03/01/11 15:35		
2-Fluorobiphenyl	3.535	99.2	50 - 150	10.796	10.793	0.0030	+/-0.050	
o-Terphenyl	3.535	91.1	35 - 140	16.413	16.423	-0.0100	+/-0.050	
MPT-1343-SS11-2.0-2011-02-18 (1102218-18) mg/Kg dry				Lab File ID: 040F4001.D		Analyzed: 03/01/11 16:17		
2-Fluorobiphenyl	3.582	90.4	50 - 150	10.823	10.793	0.0300	+/-0.050	
o-Terphenyl	3.582	89.1	35 - 140	16.423	16.423	0.0000	+/-0.050	
MPT-1343-SS11-4.0-2011-02-18 (1102218-19) mg/Kg dry				Lab File ID: 041F4101.D		Analyzed: 03/01/11 16:59		
2-Fluorobiphenyl	3.737	82.8	50 - 150	10.853	10.793	0.0600	+/-0.050	*
o-Terphenyl	3.737	85.5	35 - 140	16.433	16.423	0.0100	+/-0.050	
MPT-1343-SS11-4.5-2011-02-18 (1102218-20) mg/Kg dry				Lab File ID: 042F4201.D		Analyzed: 03/01/11 17:42		
2-Fluorobiphenyl	4.046	95.0	50 - 150	10.85	10.793	0.0570	+/-0.050	*
o-Terphenyl	4.046	93.3	35 - 140	16.436	16.423	0.0130	+/-0.050	
Calibration Check (1C06101-CCV3) mg/L				Lab File ID: 043F4301.D		Analyzed: 03/01/11 18:24		
2-Fluorobiphenyl	25.00	96.8	75 - 125	10.783	10.793	-0.0100	+/-0.050	
o-Terphenyl	25.00	88.4	75 - 125	16.42	16.423	-0.0030	+/-0.050	
Calibration Check (1C06101-CCV4) mg/L				Lab File ID: 051F5101.D		Analyzed: 03/02/11 00:01		
2-Fluorobiphenyl	25.00	89.5	75 - 125	10.78	10.793	-0.0130	+/-0.050	
o-Terphenyl	25.00	87.6	75 - 125	16.42	16.423	-0.0030	+/-0.050	

HOLDING TIME SUMMARY
FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS7-0.5-2011-02-17	02/17/11 12:05	02/21/11 08:45	02/25/11 12:56	8.08	14.00	03/01/11 02:07	3.55	40.00	
MPT-1343-SS7-2.0-2011-02-17	02/17/11 12:10	02/21/11 08:45	02/25/11 12:56	8.07	14.00	03/01/11 04:13	3.64	40.00	
MPT-1343-SS7-4.0-2011-02-17	02/17/11 12:20	02/21/11 08:45	02/25/11 12:56	8.07	14.00	03/01/11 04:56	3.67	40.00	
MPT-1343-SS7-4.5-2011-02-17	02/17/11 12:25	02/21/11 08:45	02/25/11 12:56	8.06	14.00	03/01/11 05:38	3.70	40.00	
MPT-1343-SS8-0.5-2011-02-17	02/17/11 14:00	02/21/11 08:45	02/25/11 12:56	8.00	14.00	03/01/11 06:20	3.72	40.00	
MPT-1343-SS8-2.0-2011-02-17	02/17/11 14:05	02/21/11 08:45	02/25/11 12:56	7.99	14.00	03/01/11 07:02	3.75	40.00	
MPT-1343-SS8-4.0-2011-02-17	02/17/11 14:15	02/21/11 08:45	02/25/11 12:56	7.99	14.00	03/01/11 07:44	3.78	40.00	
MPT-1343-SS8-4.5-2011-02-17	02/17/11 14:20	02/21/11 08:45	02/25/11 12:56	7.98	14.00	03/01/11 08:26	3.81	40.00	
MPT-1343-SS9-0.5-2011-02-17	02/17/11 15:15	02/21/11 08:45	02/25/11 12:56	7.95	14.00	03/01/11 09:08	3.84	40.00	
MPT-1343-SS9-2.0-2011-02-17	02/17/11 15:20	02/21/11 08:45	02/25/11 12:56	7.94	14.00	03/01/11 09:51	3.87	40.00	
MPT-1343-SS9-4.0-2011-02-17	02/17/11 15:30	02/21/11 08:45	02/25/11 12:56	7.93	14.00	03/01/11 11:21	3.93	40.00	
MPT-1343-SS9-4.5-2011-02-17	02/17/11 15:35	02/21/11 08:45	02/25/11 12:56	7.93	14.00	03/01/11 12:03	3.96	40.00	
MPT-1343-SS10-0.5-2011-02-18	02/18/11 09:10	02/21/11 08:45	02/25/11 12:56	7.20	14.00	03/01/11 12:45	3.99	40.00	
MPT-1343-SS10-2.0-2011-02-18	02/18/11 09:15	02/21/11 08:45	02/25/11 12:56	7.20	14.00	03/01/11 13:28	4.02	40.00	
MPT-1343-SS10-4.0-2011-02-18	02/18/11 09:25	02/21/11 08:45	02/25/11 12:56	7.19	14.00	03/01/11 14:10	4.05	40.00	
MPT-1343-SS10-4.5-2011-02-18	02/18/11 09:30	02/21/11 08:45	02/25/11 12:56	7.18	14.00	03/01/11 14:53	4.08	40.00	
MPT-1343-SS11-0.5-2011-02-18	02/18/11 10:00	02/21/11 08:45	02/25/11 12:56	7.16	14.00	03/01/11 15:35	4.11	40.00	
MPT-1343-SS11-2.0-2011-02-18	02/18/11 10:05	02/21/11 08:45	02/25/11 12:56	7.16	14.00	03/01/11 16:17	4.14	40.00	
MPT-1343-SS11-4.0-2011-02-18	02/18/11 10:15	02/21/11 08:45	02/25/11 12:56	7.15	14.00	03/01/11 16:59	4.17	40.00	
MPT-1343-SS11-4.5-2011-02-18	02/18/11 10:20	02/21/11 08:45	02/25/11 12:56	7.15	14.00	03/01/11 17:42	4.20	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23011-BLK1 File ID: 018F1801.D

Sampled: Prepared: Analyzed: 03/01/11 00:43

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23011 Sequence: 1C06101 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics		11.0	22.0	44.0	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	3.155	94.7	50 - 150	
o-Terphenyl	3.333	3.118	93.5	35 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix:
Laboratory ID: 1B23011-BS1
File ID: 019F1901.D
Sampled:
Prepared:
Analyzed: 03/01/11 01:25
Solids:
Preparation: EXT_3546
Dilution:
Batch: 1B23011
Sequence: 1C06101
Calibration: 1059001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics	232.0	11.0	22.0	44.0	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.641	79.2	50 - 150	
o-Terphenyl	3.333	3.007	90.2	35 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23011-MS1 File ID: 021F2101.D

Sampled: Prepared: Analyzed: 03/01/11 02:49

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23011 Sequence: 1C06101 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
	Petroleum Range Organics	314.7	11.7	23.5	47.0	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.559	3.276	92.1	50 - 150	
o-Terphenyl	3.559	3.107	87.3	35 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B23011-MSD1 File ID: 022F2201.D

Sampled: Prepared: Analyzed: 03/01/11 03:31

Solids: Preparation: EXT_3546 Dilution:

Batch: 1B23011 Sequence: 1C06101 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
	Petroleum Range Organics	315.5	11.5	23.0	46.1	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.492	3.425	98.1	50 - 150	
o-Terphenyl	3.492	3.302	94.6	35 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix: Solid
Instrument: GL-GCFID2

Analyte	MDL	MRL	Units	Method
Petroleum Range Organics	11.0	44.0	mg/Kg	FLPRO

Data for MAEPH Forms

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06210	Instrument:	GL-GCFID
Calibration:	1066004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06210-CAL6	003B0401.D	03/02/11 12:08
Cal Standard	1C06210-CAL5	004B0501.D	03/02/11 12:59
Cal Standard	1C06210-CAL4	005B0601.D	03/02/11 13:51
Cal Standard	1C06210-CAL3	006B0701.D	03/02/11 14:43
Cal Standard	1C06210-CAL2	007B0801.D	03/02/11 15:34
Cal Standard	1C06210-CAL1	008B0901.D	03/02/11 16:26
Initial Cal Check	1C06210-ICV1	009B1001.D	03/02/11 17:17

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06612
Instrument: GL-GCFID
Calibration: 1066004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06612-CAL6	002B0201.D	03/04/11 11:21
Cal Standard	1C06612-CAL5	003B0301.D	03/04/11 12:12
Cal Standard	1C06612-CAL4	004B0401.D	03/04/11 13:04
Cal Standard	1C06612-CAL3	005B0501.D	03/04/11 13:56
Cal Standard	1C06612-CAL2	006B0601.D	03/04/11 14:47
Cal Standard	1C06612-CAL1	007B0701.D	03/04/11 15:39
Initial Cal Check	1C06612-ICV1	008B0801.D	03/04/11 16:31

ANALYSIS SEQUENCE SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06613
Instrument: GL-GCFID
Calibration: 1066004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06613-CCV1	009B0901.D	03/04/11 17:22
Blank	1B25008-BLK1	036B3601.D	03/04/11 18:14
Blank	1B25008-BLK1	010B1001.D	03/04/11 18:14
LCS	1B25008-BS1	037B3701.D	03/04/11 19:06
LCS	1B25008-BS1	011B1101.D	03/04/11 19:06
LCS Dup	1B25008-BSD1	038B3801.D	03/04/11 19:57
LCS Dup	1B25008-BSD1	012B1201.D	03/04/11 19:57
MPT-1343-SS7-4.5-2011-02-17	1102218-04	044B4401.D	03/05/11 01:06
MPT-1343-SS7-4.5-2011-02-17	1102218-04	018B1801.D	03/05/11 01:06
Calibration Check	1C06613-CCV2	023B2301.D	03/05/11 05:23
Calibration Check	1C06613-CCV4	035B3501.D	03/05/11 15:41
Calibration Check	1C06613-CCV5	049B4901.D	03/06/11 03:43

FORM 8
MA EPH ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA15279

Column: RTX-5 ID: 0.32 (mm) Cont. Calib. Date(s): 03/04/11

Instrument ID: GCFID

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S1 : 24.37					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		SEQ-CCV1	03/04/11	1722	24.37	
02		1B25008-BLK1	03/04/11	1814	24.38	
03		1B25008-BS1	03/04/11	1906	24.37	
04		1B25008-BSD1	03/04/11	1957	24.37	
05		1102218-04	03/05/11	0106	24.37	
06		SEQ-CCV2	03/05/11	0523	24.37	
07						
08						
09						
10						
11						
12						
13						
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16						
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18						
19						
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22						
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24						
25						
26						
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31						
32						

QC LIMITS

S1 = 1-Chloro-octadecane (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII

FORM 8
MA EPH ANALYTICAL SEQUENCE

Lab Name: EMPIRICAL LABS Contract:

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: SDGA15279

Column: RTX-5 ID: 0.32 (mm) Cont. Calib. Date(s): 03/05/11

Instrument ID: GCFID

THE ANALYTICAL SEQUENCE OF PERFORMANCE BLANKS, AND SAMPLES GIVEN BELOW:

	SURROGATE RT FROM CONTINUING CALIBRATION S3 : 17.61					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		SEQ-CCV4	03/05/11	1541	17.61	
02		1B25008-BLK1	03/05/11	1632	17.63	
03		1B25008-BS1	03/05/11	1724	17.61	
04		1B25008-BSD1	03/05/11	1815	17.61	
05		1102218-04	03/05/11	2323	17.61	
06		SEQ-CCV5	03/06/11	0343	17.60	
07						
08						
09						
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25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S3 = 2-Bromonaphthalene (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII

ANALYSIS DATA SHEET

MPT-1343-SS7-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-04	File ID:	018B1801.D
Sampled:	02/17/11 12:25	Prepared:	02/25/11 16:42	Analyzed:	03/05/11 01:06
Solids:	86.58	Preparation:	EXT_EPH	Dilution:	1
Batch:	1B25008	Sequence:	1C06613	Calibration:	1066004
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	61300	6930	6930	6930	V
NA	C19-C36 Aliphatics	18100	9240	9240	9240	X
NA	C11-C22 Aromatics	62300	19600	19600	19600	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
o-Terphenyl	4620	3489	75.5	40 - 140	
1-Chlorooctadecane	4620	3655	79.1	40 - 140	
2-Fluorobiphenyl	4620	3975	86.1	40 - 140	
2-Bromonaphthalene	4620	3543	76.7	40 - 140	

LCS / LCS DUPLICATE RECOVERY

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1B25008	Laboratory ID:	1B25008-BS1
Preparation:	EXT_EPH	Initial/Final:	10 g / 2 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
C9-C18 Aliphatics	24000	25060	104	40 - 140
C19-C36 Aliphatics	32000	31020	96.9	40 - 140
C11-C22 Aromatics	68000	70730	104	40 - 140

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
C9-C18 Aliphatics	24000	22910	95.4	8.96	25	40 - 140
C19-C36 Aliphatics	32000	29750	93.0	4.18	25	40 - 140
C11-C22 Aromatics	68000	60080	88.4	16.3	25	40 - 140

PREPARATION BATCH SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1B25008 Batch Matrix: Solid Preparation: EXT_EPH

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS7-4.5-2011-02-17	1102218-04	02/25/11 16:42	10.00	2.00
Blank	1B25008-BLK1	02/25/11 16:42	10.00	2.00
LCS	1B25008-BS1	02/25/11 16:42	10.00	2.00
LCS Dup	1B25008-BSD1	02/25/11 16:42	10.00	2.00

INITIAL CALIBRATION STANDARDS

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06210	Instrument:	GL-GCFID
Calibration:	1066004		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0676	MAEPH Aromatics I.Cal. (100ppm ea.)	1C06210-CAL6	003B0401.D	03/02/11 12:08
11B0677	MAEPH Aromatics I.Cal. (50ppm ea.)	1C06210-CAL5	004B0501.D	03/02/11 12:59
11B0678	MAEPH Aromatics I.Cal. (40ppm ea.)	1C06210-CAL4	005B0601.D	03/02/11 13:51
11B0679	MAEPH Aromatics I.Cal. (20ppm ea.)	1C06210-CAL3	006B0701.D	03/02/11 14:43
11B0680	MAEPH Aromatics I.Cal. (10ppm ea.)	1C06210-CAL2	007B0801.D	03/02/11 15:34
11B0681	MAEPH Aromatics I.Cal. (5ppm ea.)	1C06210-CAL1	008B0901.D	03/02/11 16:26

INITIAL CALIBRATION STANDARDS

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C06612	Instrument:	GL-GCFID
Calibration:	1066004		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0212	MAEPH Aliphatics I.Cal (5ppm ea.)	1C06612-CAL6	002B0201.D	03/04/11 11:21
10L0211	MAEPH Aliphatics I.Cal (10ppm ea.)	1C06612-CAL5	003B0301.D	03/04/11 12:12
10L0210	MAEPH Aliphatics I.Cal (20ppm ea.)	1C06612-CAL4	004B0401.D	03/04/11 13:04
10L0209	MAEPH Aliphatics I.Cal (40ppm ea.)	1C06612-CAL3	005B0501.D	03/04/11 13:56
10L0208	MAEPH Aliphatics I.Cal (50ppm ea.)	1C06612-CAL2	006B0601.D	03/04/11 14:47
10L0207	MAEPH Aliphatics I.Cal (100ppm)	1C06612-CAL1	007B0701.D	03/04/11 15:39

INITIAL CALIBRATION DATA

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1066004	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	3/2/2011 12:08:45PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics												
C19-C36 Aliphatics												
C11-C22 Aromatics	85	885.6235	170	913.3823	340	928.6441	680	929.4882	850	966.1659	1700	1071.689
o-Terphenyl	5	1522.2	10	1523.7	20	1545.15	40	1567.275	50	1617.36	100	1739.69
1-Chlorooctadecane												
2-Fluorobiphenyl	5	1469	10	1457	20	1483.8	40	1518.55	50	1533.4	100	1613.84
2-Bromonaphthalene	5	601.8	10	747.4	20	842.7	40	912.125	50	936.9	100	1029.76

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1066004
Instrument: GL-GCFID
Matrix: Water
Calibration Date: 3/2/2011 12:08:45PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics	600	1542.887	300	1529.833	240	1670.471	120	1645.808	60	1569.217	30	1460.233
C19-C36 Aliphatics	800	878.3787	400	873.22	320	916.6188	160	852.675	80	797.6875	40	740.95
C11-C22 Aromatics												
o-Terphenyl												
1-Chlorooctadecane	100	1027	50	1019.46	40	1072.375	20	1005.3	10	918.7	5	853
2-Fluorobiphenyl												
2-Bromonaphthalene												

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1066004
Instrument: GL-GCFID
Matrix: Water
Calibration Date: 3/2/2011 12:08:45PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
C9-C18 Aliphatics												
C19-C36 Aliphatics												
C11-C22 Aromatics												
o-Terphenyl												
1-Chlorooctadecane												
2-Fluorobiphenyl												
2-Bromonaphthalene												

INITIAL CALIBRATION DATA (Continued)

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1066004	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	3/2/2011 12:08:45PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
C9-C18 Aliphatics	1569.742	4.954142	7.493	0.0112437			20	
C19-C36 Aliphatics	843.255	7.527358	22.343	1.673329E-02			20	
C11-C22 Aromatics	949.1655	6.896948	13.137	2.115201E-02			20	
o-Terphenyl	1585.896	5.243507	22.601	5.958014E-02			20	
1-Chlorooctadecane	982.6392	8.240496	24.37767	3.263117E-02			20	
2-Fluorobiphenyl	1512.598	3.802337	16.06683	0.1604008			20	
2-Bromonaphthalene	845.1142	18.00479	17.623	0.1229106			20	

INITIAL CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	009B1001.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06210	Injection Date:	03/02/11
Lab Sample ID:	1C06210-ICV1	Injection Time:	17:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
C11-C22 Aromatics	A	680.0	799.6	949.1655	1116.135		17.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	008B0801.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06612	Injection Date:	03/04/11
Lab Sample ID:	1C06612-ICV1	Injection Time:	16:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
C9-C18 Aliphatics	A	150.0	173.0	1569.742	1810.047		15.3	25
C19-C36 Aliphatics	A	200.0	264.4	843.255	1114.64		32.2	25 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	009B0901.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/04/11
Lab Sample ID:	1C06613-CCV1	Injection Time:	17:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	130.4	1569.742	1705.917		8.7	25
C19-C36 Aliphatics	A	160.0	168.2	843.255	886.2875		5.1	25
1-Chlorooctadecane	A	20.00	21.60	982.6392	1061.35		8.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	023B2301.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/05/11
Lab Sample ID:	1C06613-CCV2	Injection Time:	05:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C9-C18 Aliphatics	A	120.0	131.8	1569.742	1723.483		9.8	25
C19-C36 Aliphatics	A	160.0	180.7	843.255	952.4		12.9	25
1-Chlorooctadecane	A	20.00	22.78	982.6392	1119.45		13.9	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	035B3501.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/05/11
Lab Sample ID:	1C06613-CCV4	Injection Time:	15:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	385.1	949.1655	1075.197		13.3	25
o-Terphenyl	A	20.00	21.27	1585.896	1686.5		6.3	25
2-Fluorobiphenyl	A	20.00	20.11	1512.598	1520.65		0.5	25
2-Bromonaphthalene	A	20.00	20.86	845.1142	881.25		4.3	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

MAEPH

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID	Calibration:	1066004
Lab File ID:	049B4901.D	Calibration Date:	03/02/11 12:08
Sequence:	1C06613	Injection Date:	03/06/11
Lab Sample ID:	1C06613-CCV5	Injection Time:	03:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
C11-C22 Aromatics	A	340.0	356.9	949.1655	996.2559		5.0	25
o-Terphenyl	A	20.00	20.57	1585.896	1631.15		2.9	25
2-Fluorobiphenyl	A	20.00	19.83	1512.598	1499.75		-0.8	25
2-Bromonaphthalene	A	20.00	19.70	845.1142	832.35		-1.5	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C06613
Instrument: GL-GCFID
Calibration: 1066004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06613-CCV1) ug/mL				Lab File ID: 009B0901.D		Analyzed: 03/04/11 17:22		
1-Chlorooctadecane	20.00	108	75 - 125	24.37	24.37	0.0000	+/-1.000	
Blank (1B25008-BLK1) ug/Kg wet				Lab File ID: 036B3601.D		Analyzed: 03/04/11 18:14		
o-Terphenyl	4000	71.6	40 - 140	22.583		22.5830	+/-1.000	*
1-Chlorooctadecane	4000	59.2	40 - 140	24.376	24.37	0.0060	+/-1.000	
2-Fluorobiphenyl	4000	77.9	40 - 140	16.066		16.0660	+/-1.000	*
2-Bromonaphthalene	4000	67.1	40 - 140	17.633		17.6330	+/-1.000	*
LCS (1B25008-BS1) ug/Kg wet				Lab File ID: 037B3701.D		Analyzed: 03/04/11 19:06		
o-Terphenyl	4000	81.6	40 - 140	22.58		22.5800	+/-1.000	*
1-Chlorooctadecane	4000	63.5	40 - 140	24.373	24.37	0.0030	+/-1.000	
2-Fluorobiphenyl	4000	87.2	40 - 140	16.053		16.0530	+/-1.000	*
2-Bromonaphthalene	4000	87.2	40 - 140	17.61		17.6100	+/-1.000	*
LCS Dup (1B25008-BSD1) ug/Kg wet				Lab File ID: 038B3801.D		Analyzed: 03/04/11 19:57		
o-Terphenyl	4000	73.0	40 - 140	22.583		22.5830	+/-1.000	*
1-Chlorooctadecane	4000	63.1	40 - 140	24.373	24.37	0.0030	+/-1.000	
2-Fluorobiphenyl	4000	83.2	40 - 140	16.056		16.0560	+/-1.000	*
2-Bromonaphthalene	4000	83.8	40 - 140	17.61		17.6100	+/-1.000	*
MPT-1343-SS7-4.5-2011-02-17 (1102218-04) ug/Kg dry				Lab File ID: 044B4401.D		Analyzed: 03/05/11 01:06		
o-Terphenyl	4620	75.5	40 - 140	22.573		22.5730	+/-1.000	*
1-Chlorooctadecane	4620	79.1	40 - 140	24.37	24.37	0.0000	+/-1.000	
2-Fluorobiphenyl	4620	86.1	40 - 140	16.05		16.0500	+/-1.000	*
2-Bromonaphthalene	4620	76.7	40 - 140	17.606		17.6060	+/-1.000	*
Calibration Check (1C06613-CCV2) ug/mL				Lab File ID: 023B2301.D		Analyzed: 03/05/11 05:23		
1-Chlorooctadecane	20.00	114	75 - 125	24.37	24.37	0.0000	+/-1.000	
Calibration Check (1C06613-CCV4) ug/mL				Lab File ID: 035B3501.D		Analyzed: 03/05/11 15:41		
o-Terphenyl	20.00	106	75 - 125	22.58		22.5800	+/-1.000	*
2-Fluorobiphenyl	20.00	101	75 - 125	16.053		16.0530	+/-1.000	*
2-Bromonaphthalene	20.00	104	75 - 125	17.606		17.6060	+/-1.000	*
Calibration Check (1C06613-CCV5) ug/mL				Lab File ID: 049B4901.D		Analyzed: 03/06/11 03:43		
o-Terphenyl	20.00	103	75 - 125	22.57		22.5700	+/-1.000	*
2-Fluorobiphenyl	20.00	99.2	75 - 125	16.043		16.0430	+/-1.000	*
2-Bromonaphthalene	20.00	98.5	75 - 125	17.6		17.6000	+/-1.000	*

HOLDING TIME SUMMARY

MAEPH

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS7-4.5-2011-02-17	02/17/11 12:25	02/21/11 08:45	02/25/11 16:42	8.22	14.00	03/05/11 01:06	7.35	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B25008-BLK1 File ID: 010B1001.D

Sampled: Prepared: Analyzed: 03/04/11 18:14

Solids: Preparation: EXT_EPH Dilution:

Batch: 1B25008 Sequence: 1C06613 Calibration: 1066004 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	7110	6000	6000	6000	
NA	C19-C36 Aliphatics		8000	8000	8000	X U
NA	C11-C22 Aromatics		17000	17000	17000	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2864	71.6	40 - 140	
1-Chlorooctadecane	4000	2366	59.2	40 - 140	
2-Fluorobiphenyl	4000	3117	77.9	40 - 140	
2-Bromonaphthalene	4000	2685	67.1	40 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1B25008-BS1 File ID: 011B1101.D

Sampled: Prepared: Analyzed: 03/04/11 19:06

Solids: Preparation: EXT_EPH Dilution:

Batch: 1B25008 Sequence: 1C06613 Calibration: 1066004 Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	25060	6000	6000	6000	
NA	C19-C36 Aliphatics	31020	8000	8000	8000	X
NA	C11-C22 Aromatics	70730	17000	17000	17000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	3266	81.6	40 - 140	
1-Chlorooctadecane	4000	2540	63.5	40 - 140	
2-Fluorobiphenyl	4000	3487	87.2	40 - 140	
2-Bromonaphthalene	4000	3489	87.2	40 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix:
Laboratory ID: 1B25008-BSD1
File ID: 012B1201.D
Sampled:
Prepared:
Analyzed: 03/04/11 19:57
Solids:
Preparation: EXT_EPH
Dilution:
Batch: 1B25008
Sequence: 1C06613
Calibration: 1066004
Instrument: GL-GCFID

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
NA	C9-C18 Aliphatics	22910	6000	6000	6000	
NA	C19-C36 Aliphatics	29750	8000	8000	8000	X
NA	C11-C22 Aromatics	60080	17000	17000	17000	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
o-Terphenyl	4000	2920	73.0	40 - 140	
1-Chlorooctadecane	4000	2524	63.1	40 - 140	
2-Fluorobiphenyl	4000	3328	83.2	40 - 140	
2-Bromonaphthalene	4000	3351	83.8	40 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Mayport CTO JM33 2010

Matrix: Solid **Instrument:** GL-GCFID

Analyte	MDL	MRL	Units	Method
C11-C22 Aromatics	17000	17000	ug/Kg	MAEPH
C19-C36 Aliphatics	8000	8000	ug/Kg	MAEPH
C9-C18 Aliphatics	6000	6000	ug/Kg	MAEPH

Data for FLPRO Forms

ANALYSIS SEQUENCE SUMMARY

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05902-CAL6	002F0201.D	02/25/11 12:08
Cal Standard	1B05902-CAL5	003F0301.D	02/25/11 12:50
Cal Standard	1B05902-CAL4	004F0401.D	02/25/11 13:32
Cal Standard	1B05902-CAL3	005F0501.D	02/25/11 14:15
Cal Standard	1B05902-CAL2	006F0601.D	02/25/11 14:57
Cal Standard	1B05902-CAL1	007F0701.D	02/25/11 15:39
Initial Cal Check	1B05902-ICV1	002F0201.D	02/27/11 14:40

ANALYSIS SEQUENCE SUMMARY

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1C07605	Instrument:	GL-GCFID2
Calibration:	1059001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C07605-CCV1	002F0201.D	03/16/11 17:52
Blank	1C11019-BLK1	008F0801.D	03/16/11 22:09
LCS	1C11019-BS1	009F0901.D	03/16/11 22:51
MPT-1343-SS7-4.5-2011-02-17	1102218-04	011F1101.D	03/17/11 00:15
MPT-1343-SS7-4.5-2011-02-17	1C11019-MS1	012F1201.D	03/17/11 00:57
MPT-1343-SS7-4.5-2011-02-17	1C11019-MSD1	013F1301.D	03/17/11 01:40
Calibration Check	1C07605-CCV2	014F1401.D	03/17/11 02:22
MPT-1343-SS8-4.5-2011-02-17	1102218-08	015F1501.D	03/17/11 03:04
MPT-1343-SS9-4.5-2011-02-17	1102218-12	016F1601.D	03/17/11 03:46
MPT-1343-SS10-4.5-2011-02-18	1102218-16	017F1701.D	03/17/11 04:28
MPT-1343-SS11-4.5-2011-02-18	1102218-20	018F1801.D	03/17/11 05:10
Calibration Check	1C07605-CCV3	025F2501.D	03/17/11 10:04

ANALYSIS DATA SHEET

MPT-1343-SS7-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-04	File ID:	011F1101.D
Sampled:	02/17/11 12:25	Prepared:	03/11/11 18:00	Analyzed:	03/17/11 00:15
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11019	Sequence:	1C07605	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	0.327	0.157	0.315	0.630	H2 I

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.02861	61.8	50 - 150	H2
o-Terphenyl	0.04630	0.01696	36.6	82 - 142	*H2

ANALYSIS DATA SHEET

MPT-1343-SS8-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-08	File ID:	015F1501.D
Sampled:	02/17/11 14:20	Prepared:	03/11/11 18:00	Analyzed:	03/17/11 03:04
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11019	Sequence:	1C07605	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2 U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.01904	41.1	50 - 150	*H2
o-Terphenyl	0.04630	0.01539	33.2	82 - 142	*H2

ANALYSIS DATA SHEET

MPT-1343-SS9-4.5-2011-02-17

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-12	File ID:	016F1601.D
Sampled:	02/17/11 15:35	Prepared:	03/11/11 18:00	Analyzed:	03/17/11 03:46
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11019	Sequence:	1C07605	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2 U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.03179	68.7	50 - 150	H2
o-Terphenyl	0.04630	0.02534	54.7	82 - 142	*H2

ANALYSIS DATA SHEET

MPT-1343-SS10-4.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-16	File ID:	017F1701.D
Sampled:	02/18/11 09:30	Prepared:	03/11/11 18:00	Analyzed:	03/17/11 04:28
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11019	Sequence:	1C07605	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2 U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.03172	68.5	50 - 150	H2
o-Terphenyl	0.04630	0.02632	56.8	82 - 142	*H2

ANALYSIS DATA SHEET

MPT-1343-SS11-4.5-2011-02-18

Laboratory:	Empirical Laboratories, LLC			SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Mayport CTO JM33 2010
Matrix:	Soil	Laboratory ID:	1102218-20	File ID:	018F1801.D
Sampled:	02/18/11 10:20	Prepared:	03/11/11 18:00	Analyzed:	03/17/11 05:10
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11019	Sequence:	1C07605	Calibration:	1059001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2 U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.01336	28.9	50 - 150	*H2
o-Terphenyl	0.04630	0.01538	33.2	82 - 142	*H2

LCS / LCS DUPLICATE RECOVERY

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Water		
Batch:	1C11019	Laboratory ID:	1C11019-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 2 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	3.200	3.151	98.5	55 - 118

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW1312_FLPRO

MPT-1343-SS7-4.5-2011-02-17

Laboratory: Empirical Laboratories, LLC

SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Water

Batch: 1C11019

% Solids: 86.58

Source Sample Name: **1102218-04**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Petroleum Range Organics	6.400	0.3272	6.610	98.2		55 - 118

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	6.400	6.091	90.1	8.17		30	55 - 118

PREPARATION BATCH SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1C11019 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS7-4.5-2011-02-17	1102218-04	03/11/11 18:00	1,080.00	2.00
MPT-1343-SS8-4.5-2011-02-17	1102218-08	03/11/11 18:00	1,080.00	2.00
MPT-1343-SS9-4.5-2011-02-17	1102218-12	03/11/11 18:00	1,080.00	2.00
MPT-1343-SS10-4.5-2011-02-18	1102218-16	03/11/11 18:00	1,080.00	2.00
MPT-1343-SS11-4.5-2011-02-18	1102218-20	03/11/11 18:00	1,080.00	2.00
Blank	1C11019-BLK1	03/11/11 18:00	1,000.00	2.00
LCS	1C11019-BS1	03/11/11 18:00	1,000.00	2.00
MPT-1343-SS7-4.5-2011-02-17	1C11019-MS1	03/11/11 18:00	500.00	1.00
MPT-1343-SS7-4.5-2011-02-17	1C11019-MSD1	03/11/11 18:00	500.00	1.00

INITIAL CALIBRATION STANDARDS

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1B05902	Instrument:	GL-GCFID2
Calibration:	1059001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11B0728	FLPRO CAL6 85ppm	1B05902-CAL6	002F0201.D	02/25/11 12:08
11B0727	FLPRO CAL5 850ppm	1B05902-CAL5	003F0301.D	02/25/11 12:50
11B0726	FLPRO CAL4 2550ppm	1B05902-CAL4	004F0401.D	02/25/11 13:32
11B0725	FLPRO CAL3 4250ppm	1B05902-CAL3	005F0501.D	02/25/11 14:15
11B0724	FLPRO CAL2 5950ppm	1B05902-CAL2	006F0601.D	02/25/11 14:57
11B0723	FLPRO CAL1 8500ppm	1B05902-CAL1	007F0701.D	02/25/11 15:39

INITIAL CALIBRATION DATA

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Petroleum Range Organics	85	1001.176	850	1377.509	2550	1446.599	4250	1488.03	5950	1412.965	8500	1418.286
2-Fluorobiphenyl	5	1558.6	10	1409.6	15	1829.333	25	2032.88	35	2127.686	50	2181.72
o-Terphenyl	5	2387.8	10	2409.2	15	2548.533	25	2526	35	2565.572	50	2515.5

INITIAL CALIBRATION DATA (Continued)

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Calibration:	1059001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/25/2011 12:08:22PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Petroleum Range Organics	1357.428	13.14176	2.64	1.458778E-02			20	
2-Fluorobiphenyl	1856.637	17.02584	10.99367	0.4529372			20	
o-Terphenyl	2492.101	3.004445	16.57033	8.740256E-02			20	

INITIAL CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1B05902	Injection Date:	02/27/11
Lab Sample ID:	1B05902-ICV1	Injection Time:	14:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Petroleum Range Organics	A	4000	4130	1357.428	1401.388		3.2	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	002F0201.D	Calibration Date:	02/25/11 12:08
Sequence:	1C07605	Injection Date:	03/16/11
Lab Sample ID:	1C07605-CCV1	Injection Time:	17:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4964	1357.428	1585.465		16.8	25
2-Fluorobiphenyl	A	25.00	24.79	1856.637	1841.04		-0.8	25
o-Terphenyl	A	25.00	21.10	2492.101	2103.24		-15.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	014F1401.D	Calibration Date:	02/25/11 12:08
Sequence:	1C07605	Injection Date:	03/17/11
Lab Sample ID:	1C07605-CCV2	Injection Time:	02:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	5133	1357.428	1639.452		20.8	25
2-Fluorobiphenyl	A	25.00	24.72	1856.637	1835.56		-1.1	25
o-Terphenyl	A	25.00	20.48	2492.101	2041.92		-18.1	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW1312_FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	CTOJM33_008
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	GL-GCFID2	Calibration:	1059001
Lab File ID:	025F2501.D	Calibration Date:	02/25/11 12:08
Sequence:	1C07605	Injection Date:	03/17/11
Lab Sample ID:	1C07605-CCV3	Injection Time:	10:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	4370	1357.428	1395.664		2.8	25
2-Fluorobiphenyl	A	25.00	20.67	1856.637	1535.36		-17.3	25
o-Terphenyl	A	25.00	20.00	2492.101	1994.2		-20.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07605
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07605-CCV1) ug/mL				Lab File ID: 002F0201.D		Analyzed: 03/16/11 17:52		
2-Fluorobiphenyl	25.00	99.2	75 - 125	11.15	11.15	0.0000	+/-0.050	
o-Terphenyl	25.00	84.4	75 - 125	16.69	16.69	0.0000	+/-0.050	
Blank (1C11019-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 03/16/11 22:09		
2-Fluorobiphenyl	0.05000	79.3	50 - 150	11.173	11.15	0.0230	+/-0.050	
o-Terphenyl	0.05000	82.9	82 - 142	16.69	16.69	0.0000	+/-0.050	
LCS (1C11019-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 03/16/11 22:51		
2-Fluorobiphenyl	0.05000	78.6	50 - 150	11.156	11.15	0.0060	+/-0.050	
o-Terphenyl	0.05000	82.2	82 - 142	16.686	16.69	-0.0040	+/-0.050	
MPT-1343-SS7-4.5-2011-02-17 (1102218-04) mg/L				Lab File ID: 011F1101.D		Analyzed: 03/17/11 00:15		
2-Fluorobiphenyl	0.04630	61.8	50 - 150	11.153	11.15	0.0030	+/-0.050	
o-Terphenyl	0.04630	36.6	82 - 142	16.696	16.69	0.0060	+/-0.050	*
Matrix Spike (1C11019-MS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 03/17/11 00:57		
2-Fluorobiphenyl	0.1000	99.5	50 - 150	11.116	11.15	-0.0340	+/-0.050	
o-Terphenyl	0.1000	79.7	82 - 142	16.686	16.69	-0.0040	+/-0.050	*
Matrix Spike Dup (1C11019-MSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 03/17/11 01:40		
2-Fluorobiphenyl	0.1000	91.5	50 - 150	11.113	11.15	-0.0370	+/-0.050	
o-Terphenyl	0.1000	78.2	82 - 142	16.683	16.69	-0.0070	+/-0.050	*
Calibration Check (1C07605-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 03/17/11 02:22		
2-Fluorobiphenyl	25.00	98.9	75 - 125	11.146	11.15	-0.0040	+/-0.050	
o-Terphenyl	25.00	81.9	75 - 125	16.683	16.69	-0.0070	+/-0.050	
MPT-1343-SS8-4.5-2011-02-17 (1102218-08) mg/L				Lab File ID: 015F1501.D		Analyzed: 03/17/11 03:04		
2-Fluorobiphenyl	0.04630	41.1	50 - 150	11.253	11.15	0.1030	+/-0.050	*
o-Terphenyl	0.04630	33.2	82 - 142	16.71	16.69	0.0200	+/-0.050	*
MPT-1343-SS9-4.5-2011-02-17 (1102218-12) mg/L				Lab File ID: 016F1601.D		Analyzed: 03/17/11 03:46		
2-Fluorobiphenyl	0.04630	68.7	50 - 150	11.176	11.15	0.0260	+/-0.050	
o-Terphenyl	0.04630	54.7	82 - 142	16.69	16.69	0.0000	+/-0.050	*
MPT-1343-SS10-4.5-2011-02-18 (1102218-16) mg/L				Lab File ID: 017F1701.D		Analyzed: 03/17/11 04:28		
2-Fluorobiphenyl	0.04630	68.5	50 - 150	11.193	11.15	0.0430	+/-0.050	
o-Terphenyl	0.04630	56.8	82 - 142	16.693	16.69	0.0030	+/-0.050	*
MPT-1343-SS11-4.5-2011-02-18 (1102218-20) mg/L				Lab File ID: 018F1801.D		Analyzed: 03/17/11 05:10		
2-Fluorobiphenyl	0.04630	28.9	50 - 150	11.303	11.15	0.1530	+/-0.050	*
o-Terphenyl	0.04630	33.2	82 - 142	16.71	16.69	0.0200	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1C07605
Instrument: GL-GCFID2
Calibration: 1059001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07605-CCV3) ug/mL				Lab File ID: 025F2501.D		Analyzed: 03/17/11 10:04		
2-Fluorobiphenyl	25.00	82.7	75 - 125	11.143	11.15	-0.0070	+/-0.050	
o-Terphenyl	25.00	80.0	75 - 125	16.68	16.69	-0.0100	+/-0.050	

HOLDING TIME SUMMARY

SW1312_FLPRO

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS7-4.5-2011-02-17	02/17/11 12:25	02/21/11 08:45	03/11/11 18:00	22.27	14.00	03/17/11 00:15	5.26	40.00	*
MPT-1343-SS8-4.5-2011-02-17	02/17/11 14:20	02/21/11 08:45	03/11/11 18:00	22.19	14.00	03/17/11 03:04	5.38	40.00	*
MPT-1343-SS9-4.5-2011-02-17	02/17/11 15:35	02/21/11 08:45	03/11/11 18:00	22.14	14.00	03/17/11 03:46	5.41	40.00	*
MPT-1343-SS10-4.5-2011-02-18	02/18/11 09:30	02/21/11 08:45	03/11/11 18:00	21.40	14.00	03/17/11 04:28	5.44	40.00	*
MPT-1343-SS11-4.5-2011-02-18	02/18/11 10:20	02/21/11 08:45	03/11/11 18:00	21.36	14.00	03/17/11 05:10	5.47	40.00	*

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C11019-BLK1 File ID: 008F0801.D

Sampled: Prepared: Analyzed: 03/16/11 22:09

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C11019 Sequence: 1C07605 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.170	0.340	0.680	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03966	79.3	50 - 150	
o-Terphenyl	0.05000	0.04143	82.9	82 - 142	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: CTOJM33_008
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Matrix:
Laboratory ID: 1C11019-BS1
File ID: 009F0901.D
Sampled:
Prepared:
Analyzed: 03/16/11 22:51
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1C11019
Sequence: 1C07605
Calibration: 1059001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	3.151	0.170	0.340	0.680	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03931	78.6	50 - 150	
o-Terphenyl	0.05000	0.04112	82.2	82 - 142	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C11019-MS1 File ID: 012F1201.D

Sampled: Prepared: Analyzed: 03/17/11 00:57

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C11019 Sequence: 1C07605 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	6.610	0.170	0.340	0.680	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.1000	0.09948	99.5	50 - 150	
o-Terphenyl	0.1000	0.07968	79.7	82 - 142	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1C11019-MSD1 File ID: 013F1301.D

Sampled: Prepared: Analyzed: 03/17/11 01:40

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C11019 Sequence: 1C07605 Calibration: 1059001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	6.091	0.170	0.340	0.680	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.1000	0.09154	91.5	50 - 150	
o-Terphenyl	0.1000	0.07825	78.2	82 - 142	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** CTOJM33_008

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Mayport CTO JM33 2010

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Petroleum Range Organics	0.170	0.680	mg/L	SW1312_FLPRO

ANALYTICAL SUMMARY DATA PACKAGE
SDG # 1107021

PROJECT NAME: NAS MAYPORT CTO JM33 2010
PROJECT LOCATION: MAYPORT, FLORIDA
CONTRACT #: N62470-08-D-1001

SUBMITTAL TO:
Tobrena Sedlmeyer
Tetra Tech NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Brian Richard
Tel (615)345-1115
Fax (866)417-0548
Email: brichard@empirlabs.com

Original Report Date: August 4, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 232

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. *This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.*

Table of Contents

#	Description	Page No.
1	Cover Page	1
2	Table of Contents	2
3	Case Narrative	3
4	Sample Receipt Information Chain of Custody Forms Sample Receipt Confirmations WorkOrder Summary Sample Delivery Group (SDG) Sheets	9
5	Data for SW8260B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	27
6	Data for SW8270C Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	103
7	Data for Subcontract Data	167

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. Samples were subcontracted to Accutest Laboratories for TPH Fractionation.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The surrogate Bromofluorobenzene exceeded criteria with a negative bias in samples 1107021-07 and -08 and exceeded criteria with a positive bias in 1F17801-ICV2. The surrogate Toluene-d8 exceeded criteria with a positive bias in samples 1107021-07 and -08.

The continuing calibration verification 1G18901-CCV1 exceeded criteria with a positive bias for Bromofluorobenzene and Toluene-d8.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The continuing calibration verifications exceeded criteria in 1G20704-CV1 with a positive bias for 2-Fluorobiphenyl and in 1G20819-CCV1 with a positive bias for Benzo(g,h,i)perylene and Dibenz(a,h)anthracene.

The method blank 1G08020-BLK1 has positive results for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluorene, Phenanthrene, and Pyrene. The method blank 1G20819-BLK2 has a positive result for Phenanthrene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is “V”.**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is “L”.**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER N9 . 2025 | PAGE 1 OF 2

PROJECT NO: 2801 11290 ~~22467~~	FACILITY: Site 1343	PROJECT MANAGER: Mark Peterson	PHONE NUMBER: 904-334-7260	LABORATORY NAME AND CONTACT: EMPIRICAL / Brian R.
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: David Siefken	PHONE NUMBER: 904-334-7260	ADDRESS: 621 Mainstream Dr, suite 270
		CARRIER/WAYBILL NUMBER: 8427 1834 4588 FedEx		CITY, STATE: Nashville, TN 37228

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID (1107021)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: —	TYPE OF ANALYSIS: ⊗Select PAH - BaP equiv	8270 PAH	VOC 8260	COMMENTS
-01	0915	MPT-1343-SS12-20110701	-02		2	SO		1	X					Cool to 4°C
-02	0930	MPT-1343-SS13-20110701	-02		2	SO		1	X					Select PAH - BaP Equivalents
-03	0933	MPT-1343-SS14-20110701	-0.5		0.5	SO		1	X					
-04	0935	MPT-1343-SS15-20110701	-0.5		0.5	SO		1	X					
-05	0940	MPT-1343-SS16-20110701	0.5		0.5	SO		1	X					
-06	0945	MPT-1343-SS17-20110701	0.5		0.5	SO		1	X					
-07	1000	MPT-1343-SS18-20110701	-4		4	SO		4	X	1	3			
-08	1020	MPT-1343-SS18-20110701	-4.5		4.5	SO		4	X	1	3			
-09	1035	MPT-1343-SS18-20110701	-0.5		0.5	SO		4	X	1				
-10	1045	MPT-1343-SS18-20110701	-2		2	SO		1		1	3			
-11	1100	MPT-1343-SS19-20110701	-0.5		0.5	SO		1		1				
-12	1105	MPT-1343-SS19-20110701	-2		2	SO		4		1	3			
-13	1115	MPT-1343-SS19-20110701	4		4	SO		4		1	3			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	7-1-11	1600	1. RECEIVED BY 26°C	7-2-11	11:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TtNUS-001

10

1107021 Summ Package

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 26388 | PAGE 2 OF 2

PROJECT NO: 2801 11290~~2267~~	FACILITY: Site 1343	PROJECT MANAGER Mark Peterson	PHONE NUMBER 904-334-7260	LABORATORY NAME AND CONTACT: EMPIRICAL / Brian R
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Dave Siefken	PHONE NUMBER 904-334-7260	ADDRESS 621 Mainstream Dr, Ste 270
		CARRIER/WAYBILL NUMBER 8427 1834 4588 FedEx		CITY, STATE Nashville, TN 37228

STANDARD TAT ~~30~~
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

	DATE YEAR 2011	TIME	SAMPLE ID 110721	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS 8270 cPAH	TYPE OF ANALYSIS VOC 8260	COMMENTS
-14	7/1	1130	MPT.1343-SS19-20110701-4.5			4.5	SO		4	G		1	3	Cool to 4°C
-15		1140	MPT.1343 SS20-20110701-0.5			0.5	SO		1	G		1		
-16		1145	MPT.1343-SS20-20110701-2.0			2.0	SO		4	G		1	3	
-17		1210	MPT.1343-SS20-20110701-4.0			4.0	SO		4	G		1	3	
-18		1220	MPT.1343 SS20-20110701-4.5			4.5	SO		4	G		1	3	
-19		1230	MPT.1343-SS21-20110701-0.5			0.5	SO		1	G		1		
-20		1245	MPT.1343-SS21-20110701-2			2	SO		4	G		1	3	
-21		1310	MPT.1343-SS21-20110701-4			4	SO		4	G		1	3	
-22		1330	MPT.1343-SS21-20110701-4.5			4.5	SO		4	G		1	3	
-23		0000	Trip Blank										2	

1. RELINQUISHED BY		DATE 7-1-11	TIME 1600	1. RECEIVED BY	2.6°C	DATE 7-2-11	TIME 11:30
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME

COMMENTS

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11

1107021 Summ Package

TETRA TECH NUS, INC. (MAYPORT) CHAIN OF CUSTODY | NUMBER NO. 2228 | PAGE ___ OF ___

PROJECT NO: 112G02801	FACILITY: Site 1343	PROJECT MANAGER Mark Peterson	PHONE NUMBER 904 334-7260	LABORATORY NAME AND CONTACT: Accutest / Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER David Siefken	PHONE NUMBER 904-334-7260	ADDRESS 4405 Vineland Rd CT 15
		CARRIER/WAYBILL NUMBER		CITY, STATE Orlando FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

	DATE (Year 2011)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TRPH Fraction (MADEP)	COMMENTS
-07	7/1	1000	MPT-1343-SS18-20110701	-4		4	SO		1	P		X	Cool to 4°C
-08		1020	MPT-1343-SS18-20110701	-4.5		4.5			1	P		X	
-09		1035	MPT-1343-SS18-20110701	-0.5		0.5			1	P		X	
-10		1045	MPT-1343-SS18-20110701	-2.0		2.0			1	P		X	
-11		1100	MPT-1343-SS19-20110701	-0.5		0.5			1	P		X	
-12		1105	MPT-1343-SS19-20110701	-2.0		2			1	P		X	
-13		1115	MPT-1343-SS19-20110701	-4.0		4			1	P		X	
-14		1130	MPT-1343-SS19-20110701	-4.5		4.5			1	P		X	
-15		1140	MPT-1343-SS20-20110701	-0.5		0.5			1	P		X	
-16		1145	MPT-1343-SS20-20110701	-2.0		2.0			1	P		X	
-17		1210	MPT-1343-SS20-20110701	-4.0		4.0			1	P		X	
-18	↓	1220	MPT-1343-SS20-20110701	-4.5		4.5	↓		1	P		X	

1107021

1. RELINQUISHED BY	DATE 7-5-11	TIME	1. RECEIVED BY	DATE 7-6-11	TIME 11:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

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12

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TETRA TECH NUS, INC. (Mayport) CHAIN OF CUSTODY | NUMBER No. 2229 | PAGE ___ OF ___

PROJECT NO: 112G02801	FACILITY: Site 1343	PROJECT MANAGER Mark Peterson	PHONE NUMBER 904-334-7260	LABORATORY NAME AND CONTACT: Accutest/Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER David Siefken	PHONE NUMBER 904-334-7260	ADDRESS 4405 Vineland Rd CT-15
		CARRIER/WAYBILL NUMBER		CITY, STATE Orlando, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

	DATE YEAR 2011	TIME	SAMPLE ID 110702	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS TRPH-Fractions (MADEP)	COMMENTS
-19	7/1	1230	MPT-1343-SS21-20110701-0.5			0.5	SO		1	P		X	Cool to 4°C
-20		1245	MPT-1343-SS21-20110701-2			2			1	P		X	
		1255	MPT-1343-SS6-20110701-2			2			1	P		X	
		1300	MPT-1343-SS6-20110701-4			4			1	P		X	
-21		1310	MPT-1343-SS21-20110701-4			4			1	P		X	
-22		1330	MPT-1343-SS21-20110701-4.5			4.5			1	P		X	

1. RELINQUISHED BY	DATE 7-5-11	TIME	1. RECEIVED BY	DATE 7-5-11	TIME 11:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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4/02R
FORM NO. TtNUS-001

13

1107021 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1107021 Number of Coolers: 1 of 1

Client: Tetra Tech NUS Project: Sta 1343

Date/Time Received: 7.2.11 / 11:30 Date cooler(s) opened: 7.2.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 4588

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 7.1.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.2 °C Correction Factor: +1.4 °C Final Value: 2.6 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1107021

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Accutest Laboratories (SUB)
4405 Vineland Rd
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: MPT-1343-SS18-20110701-4				
Reference No: 1107021-07 **Solid**		**Sampled:07/01/2011 10:00**		
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 09:00		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS18-20110701-4.5				
Reference No: 1107021-08 **Solid**		**Sampled:07/01/2011 10:20**		
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 09:20		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS18-20110701-0.5				
Reference No: 1107021-09 **Solid**		**Sampled:07/01/2011 10:35**		
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 09:35		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS18-20110701-2				
Reference No: 1107021-10 **Solid**		**Sampled:07/01/2011 10:45**		
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 09:45		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS19-20110701-0.5				
Reference No: 1107021-11 **Solid**		**Sampled:07/01/2011 11:00**		
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 10:00		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS19-20110701-2				
Reference No: 1107021-12 **Solid**		**Sampled:07/01/2011 11:05**		
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 10:05		TPH Fractionation/ direct sub by client
Containers Supplied:				

Released By	Date	Received By	Date
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1107021

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: MPT-1343-SS19-20110701-4				
Reference No: 1107021-13 **Solid**	**Sampled:07/01/2011 11:15**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 10:15		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS19-20110701-4.5				
Reference No: 1107021-14 **Solid**	**Sampled:07/01/2011 11:30**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 10:30		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS20-20110701-0.5				
Reference No: 1107021-15 **Solid**	**Sampled:07/01/2011 11:40**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 10:40		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS20-20110701-2.0				
Reference No: 1107021-16 **Solid**	**Sampled:07/01/2011 11:45**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 10:45		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS20-20110701-4.0				
Reference No: 1107021-17 **Solid**	**Sampled:07/01/2011 12:10**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 11:10		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS20-20110701-4.5				
Reference No: 1107021-18 **Solid**	**Sampled:07/01/2011 12:20**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 11:20		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS21-20110701-0.5				
Reference No: 1107021-19 **Solid**	**Sampled:07/01/2011 12:30**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 11:30		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS21-20110701-2				
Reference No: 1107021-20 **Solid**	**Sampled:07/01/2011 12:45**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 11:45		TPH Fractionation/ direct sub by client
Containers Supplied:				

Released By	Date	Received By	Date
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1107021

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: MPT-1343-SS21-20110701-4				
Reference No: 1107021-21 **Solid**	**Sampled:07/01/2011 13:10**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 12:10		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS21-20110701-4.5				
Reference No: 1107021-22 **Solid**	**Sampled:07/01/2011 13:30**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 12:30		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS6-20110701-2				
Reference No: 1107021-24 **Solid**	**Sampled:07/01/2011 12:55**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 11:55		TPH Fractionation/ direct sub by client
Containers Supplied:				
Sample ID: MPT-1343-SS6-20110701-4				
Reference No: 1107021-25 **Solid**	**Sampled:07/01/2011 13:00**			
SUB_SPECIALTY	07/13/2011 14:00	12/28/2011 12:00		TPH Fractionation/ direct sub by client
Containers Supplied:				

Released By	Date	Received By	Date
Released By	Date	Received By	Date

WORK ORDER

1107021

Printed: 8/4/2011 2:00:08PM

Empirical Laboratories, LLC

Client: **Tetra Tech NUS, Inc. (T010)**
Project: **NAS Mayport CTO JM33 2010**

Project Manager: **Brian Richard**
Project Number: **TET_CTOJM33**

Report To:
Tetra Tech NUS, Inc. (T010)
Tobrena Skeen
Foster Plaza 7, 661 Anderson Drive
Pittsburgh, PA 15220
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
Foster Plaza 7, 661 Anderson Drive
Pittsburgh, PA 15220
Phone :(412) 921-8182
Fax: (412) 921-4040

Date Due: 07/15/2011 16:00 (8 day TAT)
Received By: William Schwab
Logged In By: William Schwab

Date Received: 07/02/2011 09:00
Date Logged In 07/04/2011 15:42

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	No		
COC/Labels Agree	No		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Version	Comments
1107021-01 MPT-1343-SS12-20110701-02 [Solid] Sampled 07/01/2011 09:15 Eastern					
SM2540B	07/15/2011 14:00	8	07/08/2011 08:15		
SW8270C	07/15/2011 14:00	8	07/15/2011 08:15	Select PAH	see version for Select or Reg
1107021-02 MPT-1343-SS13-20110701-02 [Solid] Sampled 07/01/2011 09:30 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 08:30	Select PAH	see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 08:30		

18
1107021 Summ Package

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1107021-03 MPT-1343-SS14-20110701-0.5 [Solid] Sampled 07/01/2011 09:33 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 08:33	Select PAH	see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 08:33		
1107021-04 MPT-1343-SS15-20110701-0.5 [Solid] Sampled 07/01/2011 09:35 Eastern					
SM2540B	07/15/2011 14:00	8	07/08/2011 08:35		
SW8270C	07/15/2011 14:00	8	07/15/2011 08:35	Select PAH	see version for Select or Reg
1107021-05 MPT-1343-SS16-20110701-0.5 [Solid] Sampled 07/01/2011 09:40 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 08:40	Select PAH	see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 08:40		
1107021-06 MPT-1343-SS17-20110701-0.5 [Solid] Sampled 07/01/2011 09:45 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 08:45	Select PAH	see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 08:45		
1107021-07 MPT-1343-SS18-20110701-4 [Solid] Sampled 07/01/2011 10:00 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 09:00		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 09:00		AP vials/ BTEX & MTBE
SM2540B	07/15/2011 14:00	8	07/08/2011 09:00		

19

1107021 Summ Package

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1107021-08 MPT-1343-SS18-20110701-4.5 [Solid] Sampled 07/01/2011 10:20 Eastern					
SM2540B	07/15/2011 14:00	8	07/08/2011 09:20		
SW8270C	07/15/2011 14:00	8	07/15/2011 09:20		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 09:20		AP vials/ BTEX & MTBE
1107021-09 MPT-1343-SS18-20110701-0.5 [Solid] Sampled 07/01/2011 10:35 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 09:35		see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 09:35		
1107021-10 MPT-1343-SS18-20110701-2 [Solid] Sampled 07/01/2011 10:45 Eastern					
SW8260B	07/15/2011 14:00	8	07/15/2011 09:45		AP vials/ BTEX & MTBE
SM2540B	07/15/2011 14:00	8	07/08/2011 09:45		
SW8270C	07/15/2011 14:00	8	07/15/2011 09:45		see version for Select or Reg
1107021-11 MPT-1343-SS19-20110701-0.5 [Solid] Sampled 07/01/2011 11:00 Eastern					
SM2540B	07/15/2011 14:00	8	07/08/2011 10:00		
SW8270C	07/15/2011 14:00	8	07/15/2011 10:00		see version for Select or Reg
1107021-12 MPT-1343-SS19-20110701-2 [Solid] Sampled 07/01/2011 11:05 Eastern					
SM2540B	07/15/2011 14:00	8	07/08/2011 10:05		
SW8270C	07/15/2011 14:00	8	07/15/2011 10:05		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 10:05		AP vials/ BTEX & MTBE

20

1107021 Summ Package

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1107021-13 MPT-1343-SS19-20110701-4 [Solid] Sampled 07/01/2011 11:15 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 10:15		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 10:15		BTEX & MTBE
SM2540B	07/15/2011 14:00	8	07/08/2011 10:15		
1107021-14 MPT-1343-SS19-20110701-4.5 [Solid] Sampled 07/01/2011 11:30 Eastern					
SW8260B	07/15/2011 14:00	8	07/15/2011 10:30		AP vials/ BTEX & MTBE
SW8270C	07/15/2011 14:00	8	07/15/2011 10:30		see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 10:30		
1107021-15 MPT-1343-SS20-20110701-0.5 [Solid] Sampled 07/01/2011 11:40 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 10:40		see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 10:40		
1107021-16 MPT-1343-SS20-20110701-2.0 [Solid] Sampled 07/01/2011 11:45 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 10:45		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 10:45		AP vials/ BTEX & MTBE- NO LOWER DIL. DUE TO MATRIX-ADM
SM2540B	07/15/2011 14:00	8	07/08/2011 10:45		
1107021-17 MPT-1343-SS20-20110701-4.0 [Solid] Sampled 07/01/2011 12:10 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 11:10		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 11:10		AP vials/ BTEX & MTBE- NO LOWER DIL. DUE TO MATRIX-ADM
SM2540B	07/15/2011 14:00	8	07/08/2011 11:10		

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1107021-18 MPT-1343-SS20-20110701-4.5 [Solid] Sampled 07/01/2011 12:20 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 11:20		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 11:20		AP vials/ BTEX & MTBE- NO LOWER DIL. DUE TO MATRIX-ADM
SM2540B	07/15/2011 14:00	8	07/08/2011 11:20		
1107021-19 MPT-1343-SS21-20110701-0.5 [Solid] Sampled 07/01/2011 12:30 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 11:30		see version for Select or Reg
SM2540B	07/15/2011 14:00	8	07/08/2011 11:30		
1107021-20 MPT-1343-SS21-20110701-2 [Solid] Sampled 07/01/2011 12:45 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 11:45		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 11:45		AP vials/ BTEX & MTBE- NO LOWER DIL. DUE TO MATRIX-ADM
SM2540B	07/15/2011 14:00	8	07/08/2011 11:45		
1107021-21 MPT-1343-SS21-20110701-4 [Solid] Sampled 07/01/2011 13:10 Eastern					
SW8270C	07/15/2011 14:00	8	07/15/2011 12:10		see version for Select or Reg
SW8260B	07/15/2011 14:00	8	07/15/2011 12:10		AP vials/ BTEX & MTBE- NO LOWER DIL. DUE TO MATRIX-ADM
SM2540B	07/15/2011 14:00	8	07/08/2011 12:10		
1107021-22 MPT-1343-SS21-20110701-4.5 [Solid] Sampled 07/01/2011 13:30 Eastern					
SW8260B	07/15/2011 14:00	8	07/15/2011 12:30		AP vials/ BTEX & MTBE- NO LOWER DIL. DUE TO MATRIX-ADM
SM2540B	07/15/2011 14:00	8	07/08/2011 12:30		
SW8270C	07/15/2011 14:00	8	07/15/2011 12:30		see version for Select or Reg

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
1107021-23 Trip Blank [Water] Sampled 07/01/2011 00:00 Eastern					
SW8260B	07/15/2011 14:00	8	07/14/2011 23:00		BTEX & MTBE
Accutest Laboratories (SUB)					
1107021-07 MPT-1343-SS18-20110701-4 [Solid] Sampled 07/01/2011 10:00 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 09:00		TPH Fractionation/ direct sub by client
1107021-08 MPT-1343-SS18-20110701-4.5 [Solid] Sampled 07/01/2011 10:20 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 09:20		TPH Fractionation/ direct sub by client
1107021-09 MPT-1343-SS18-20110701-0.5 [Solid] Sampled 07/01/2011 10:35 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 09:35		TPH Fractionation/ direct sub by client
1107021-10 MPT-1343-SS18-20110701-2 [Solid] Sampled 07/01/2011 10:45 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 09:45		TPH Fractionation/ direct sub by client
1107021-11 MPT-1343-SS19-20110701-0.5 [Solid] Sampled 07/01/2011 11:00 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 10:00		TPH Fractionation/ direct sub by client
1107021-12 MPT-1343-SS19-20110701-2 [Solid] Sampled 07/01/2011 11:05 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 10:05		TPH Fractionation/ direct sub by client

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
Accutest Laboratories (SUB)					
1107021-13 MPT-1343-SS19-20110701-4 [Solid] Sampled 07/01/2011 11:15 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 10:15		TPH Fractionation/ direct sub by client
1107021-14 MPT-1343-SS19-20110701-4.5 [Solid] Sampled 07/01/2011 11:30 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 10:30		TPH Fractionation/ direct sub by client
1107021-15 MPT-1343-SS20-20110701-0.5 [Solid] Sampled 07/01/2011 11:40 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 10:40		TPH Fractionation/ direct sub by client
1107021-16 MPT-1343-SS20-20110701-2.0 [Solid] Sampled 07/01/2011 11:45 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 10:45		TPH Fractionation/ direct sub by client
1107021-17 MPT-1343-SS20-20110701-4.0 [Solid] Sampled 07/01/2011 12:10 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 11:10		TPH Fractionation/ direct sub by client
1107021-18 MPT-1343-SS20-20110701-4.5 [Solid] Sampled 07/01/2011 12:20 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 11:20		TPH Fractionation/ direct sub by client
1107021-19 MPT-1343-SS21-20110701-0.5 [Solid] Sampled 07/01/2011 12:30 Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 11:30		TPH Fractionation/ direct sub by client

1107021

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010

Project Manager: Brian Richard
Project Number: TET_CTOJM33

Analysis	Due	TAT	Expires	Version	Comments
Accutest Laboratories (SUB)					
1107021-20 MPT-1343-SS21-20110701-2 [Solid] Sampled 07/01/2011 12:45					
Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 11:45		TPH Fractionation/ direct sub by client
1107021-21 MPT-1343-SS21-20110701-4 [Solid] Sampled 07/01/2011 13:10					
Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 12:10		TPH Fractionation/ direct sub by client
1107021-22 MPT-1343-SS21-20110701-4.5 [Solid] Sampled 07/01/2011 13:30					
Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 12:30		TPH Fractionation/ direct sub by client
1107021-24 MPT-1343-SS6-20110701-2 [Solid] Sampled 07/01/2011 12:55					
Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 11:55		TPH Fractionation/ direct sub by client
1107021-25 MPT-1343-SS6-20110701-4 [Solid] Sampled 07/01/2011 13:00					
Eastern					
SUB_SPECIALTY	07/13/2011 14:00	8	12/28/2011 12:00		TPH Fractionation/ direct sub by client

Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: NAS Mayport CTO JM33 2010
SDG #: 1107021
MATRIX: Solid

QC LEVEL: Level IV
Report Due: 7/15/2011
Client Sample Count: 24

Sample Type	Sampled	Received	Lab ID	Client ID	SM2540B	SUB_SPECIALTY	SW8260B	SW8270C
Client Sample	7/1/2011	7/2/2011	1107021-01	MPT-1343-SS12-20110701-02	X			X
Client Sample	7/1/2011	7/2/2011	1107021-02	MPT-1343-SS13-20110701-02	X			X
Client Sample	7/1/2011	7/2/2011	1107021-03	MPT-1343-SS14-20110701-0.5	X			X
Client Sample	7/1/2011	7/2/2011	1107021-04	MPT-1343-SS15-20110701-0.5	X			X
Client Sample	7/1/2011	7/2/2011	1107021-05	MPT-1343-SS16-20110701-0.5	X			X
Client Sample	7/1/2011	7/2/2011	1107021-06	MPT-1343-SS17-20110701-0.5	X			X
Client Sample	7/1/2011	7/2/2011	1107021-07	MPT-1343-SS18-20110701-4	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-08	MPT-1343-SS18-20110701-4.5	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-09	MPT-1343-SS18-20110701-0.5	X	X		X
Client Sample	7/1/2011	7/2/2011	1107021-10	MPT-1343-SS18-20110701-2	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-11	MPT-1343-SS19-20110701-0.5	X	X		X
Client Sample	7/1/2011	7/2/2011	1107021-12	MPT-1343-SS19-20110701-2	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-13	MPT-1343-SS19-20110701-4	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-14	MPT-1343-SS19-20110701-4.5	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-15	MPT-1343-SS20-20110701-0.5	X	X		X
Client Sample	7/1/2011	7/2/2011	1107021-16	MPT-1343-SS20-20110701-2.0	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-17	MPT-1343-SS20-20110701-4.0	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-18	MPT-1343-SS20-20110701-4.5	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-19	MPT-1343-SS21-20110701-0.5	X	X		X
Client Sample	7/1/2011	7/2/2011	1107021-20	MPT-1343-SS21-20110701-2	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-21	MPT-1343-SS21-20110701-4	X	X	X	X
Client Sample	7/1/2011	7/2/2011	1107021-22	MPT-1343-SS21-20110701-4.5	X	X	X	X
Trip Blank	7/1/2011	7/2/2011	1107021-23	Trip Blank			X	
Client Sample	7/1/2011	7/2/2011	1107021-24	MPT-1343-SS6-20110701-2		X		
Client Sample	7/1/2011	7/2/2011	1107021-25	MPT-1343-SS6-20110701-4		X		

Data for SW8260B Forms

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-4

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-07 File ID: 0702107.D

Sampled: 07/01/11 10:00 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 10:58

Solids: 84.97 Preparation: 5035 Dilution: 1

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00132	0.00263	0.00526	U
100-41-4	Ethylbenzene		0.00132	0.00263	0.00526	U
1634-04-4	Methyl t-Butyl Ether		0.00132	0.00263	0.00526	U
108-88-3	Toluene		0.00132	0.00263	0.00526	U
1330-20-7	Xylenes (total)		0.00395	0.00790	0.0158	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03158	0.02645	83.8	85 - 120	*
Dibromofluoromethane	0.03158	0.03006	95.2	80 - 125	
1,2-Dichloroethane-d4	0.03158	0.03139	99.4	75 - 140	
Toluene-d8	0.03158	0.03861	122	85 - 115	*

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-08 File ID: 0702108.D

Sampled: 07/01/11 10:20 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 11:25

Solids: 65.93 Preparation: 5035 Dilution: 1

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00177	0.00354	0.00707	U
100-41-4	Ethylbenzene		0.00177	0.00354	0.00707	U
1634-04-4	Methyl t-Butyl Ether		0.00177	0.00354	0.00707	U
108-88-3	Toluene		0.00177	0.00354	0.00707	U
1330-20-7	Xylenes (total)		0.00531	0.0106	0.0212	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.04245	0.03532	83.2	85 - 120	*
Dibromofluoromethane	0.04245	0.04108	96.8	80 - 125	
1,2-Dichloroethane-d4	0.04245	0.04385	103	75 - 140	
Toluene-d8	0.04245	0.05248	124	85 - 115	*

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-2

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-10 File ID: 0702110.D

Sampled: 07/01/11 10:45 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 11:52

Solids: 81.55 Preparation: 5035 Dilution: 1

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00145	0.00289	0.00578	U
100-41-4	Ethylbenzene		0.00145	0.00289	0.00578	U
1634-04-4	Methyl t-Butyl Ether		0.00145	0.00289	0.00578	U
108-88-3	Toluene		0.00145	0.00289	0.00578	U
1330-20-7	Xylenes (total)		0.00434	0.00868	0.0174	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03471	0.03480	100	85 - 120	
Dibromofluoromethane	0.03471	0.03462	99.8	80 - 125	
1,2-Dichloroethane-d4	0.03471	0.03867	111	75 - 140	
Toluene-d8	0.03471	0.03690	106	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-2

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-12 File ID: 0702112.D

Sampled: 07/01/11 11:05 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 12:20

Solids: 89.23 Preparation: 5035 Dilution: 1

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00124	0.00248	0.00495	U
100-41-4	Ethylbenzene		0.00124	0.00248	0.00495	U
1634-04-4	Methyl t-Butyl Ether		0.00124	0.00248	0.00495	U
108-88-3	Toluene		0.00124	0.00248	0.00495	U
1330-20-7	Xylenes (total)		0.00371	0.00743	0.0149	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.02970	0.02961	99.7	85 - 120	
Dibromofluoromethane	0.02970	0.02925	98.5	80 - 125	
1,2-Dichloroethane-d4	0.02970	0.03158	106	75 - 140	
Toluene-d8	0.02970	0.03269	110	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-4

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-13 File ID: 0702113.D

Sampled: 07/01/11 11:15 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 12:47

Solids: 83.39 Preparation: 5035 Dilution: 1

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00165	0.00330	0.00660	U
100-41-4	Ethylbenzene		0.00165	0.00330	0.00660	U
1634-04-4	Methyl t-Butyl Ether		0.00165	0.00330	0.00660	U
108-88-3	Toluene		0.00165	0.00330	0.00660	U
1330-20-7	Xylenes (total)		0.00495	0.00991	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03962	0.04032	102	85 - 120	
Dibromofluoromethane	0.03962	0.03866	97.6	80 - 125	
1,2-Dichloroethane-d4	0.03962	0.04240	107	75 - 140	
Toluene-d8	0.03962	0.04217	106	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-14 File ID: 0702114.D

Sampled: 07/01/11 11:30 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 13:14

Solids: 86.09 Preparation: 5035 Dilution: 1

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00148	0.00297	0.00594	U
100-41-4	Ethylbenzene		0.00148	0.00297	0.00594	U
1634-04-4	Methyl t-Butyl Ether		0.00148	0.00297	0.00594	U
108-88-3	Toluene		0.00148	0.00297	0.00594	U
1330-20-7	Xylenes (total)		0.00445	0.00891	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03563	0.03404	95.5	85 - 120	
Dibromofluoromethane	0.03563	0.03515	98.7	80 - 125	
1,2-Dichloroethane-d4	0.03563	0.03857	108	75 - 140	
Toluene-d8	0.03563	0.03816	107	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-2.0

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-16 File ID: 0702116D.D

Sampled: 07/01/11 11:45 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 13:41

Solids: 80.88 Preparation: 5035 Dilution: 50

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.0662	0.132	0.265	U
100-41-4	Ethylbenzene		0.0662	0.132	0.265	U
1634-04-4	Methyl t-Butyl Ether		0.0662	0.132	0.265	U
108-88-3	Toluene		0.0662	0.132	0.265	U
1330-20-7	Xylenes (total)		0.198	0.397	0.794	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03176	0.03243	102	85 - 120	
Dibromofluoromethane	0.03176	0.03170	99.8	80 - 125	
1,2-Dichloroethane-d4	0.03176	0.03485	110	75 - 140	
Toluene-d8	0.03176	0.03380	106	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-4.0

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-17 File ID: 0702117D.D

Sampled: 07/01/11 12:10 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 14:35

Solids: 62.98 Preparation: 5035 Dilution: 50

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.126	0.252	0.504	U
100-41-4	Ethylbenzene		0.126	0.252	0.504	U
1634-04-4	Methyl t-Butyl Ether		0.126	0.252	0.504	U
108-88-3	Toluene		0.126	0.252	0.504	U
1330-20-7	Xylenes (total)		0.378	0.756	1.51	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.06045	0.06165	102	85 - 120	
Dibromofluoromethane	0.06045	0.05883	97.3	80 - 125	
1,2-Dichloroethane-d4	0.06045	0.06333	105	75 - 140	
Toluene-d8	0.06045	0.06345	105	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-18 File ID: 0702118D.D

Sampled: 07/01/11 12:20 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 15:30

Solids: 86.66 Preparation: 5035 Dilution: 50

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.0879	0.176	0.352	U
100-41-4	Ethylbenzene		0.0879	0.176	0.352	U
1634-04-4	Methyl t-Butyl Ether		0.0879	0.176	0.352	U
108-88-3	Toluene		0.0879	0.176	0.352	U
1330-20-7	Xylenes (total)		0.264	0.528	1.06	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.04222	0.04351	103	85 - 120	
Dibromofluoromethane	0.04222	0.04051	96.0	80 - 125	
1,2-Dichloroethane-d4	0.04222	0.04197	99.4	75 - 140	
Toluene-d8	0.04222	0.04530	107	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-2

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-20 File ID: 0702120D.D

Sampled: 07/01/11 12:45 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 16:24

Solids: 83.77 Preparation: 5035 Dilution: 50

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.0645	0.129	0.258	U
100-41-4	Ethylbenzene		0.0645	0.129	0.258	U
1634-04-4	Methyl t-Butyl Ether		0.0645	0.129	0.258	U
108-88-3	Toluene		0.0645	0.129	0.258	U
1330-20-7	Xylenes (total)		0.194	0.387	0.774	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03098	0.03162	102	85 - 120	
Dibromofluoromethane	0.03098	0.03003	96.9	80 - 125	
1,2-Dichloroethane-d4	0.03098	0.03228	104	75 - 140	
Toluene-d8	0.03098	0.03273	106	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-4

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-21 File ID: 0702121D.D

Sampled: 07/01/11 13:10 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 17:18

Solids: 88.03 Preparation: 5035 Dilution: 50

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.0700	0.140	0.280	U
100-41-4	Ethylbenzene		0.0700	0.140	0.280	U
1634-04-4	Methyl t-Butyl Ether		0.0700	0.140	0.280	U
108-88-3	Toluene		0.0700	0.140	0.280	U
1330-20-7	Xylenes (total)		0.210	0.420	0.840	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03361	0.03370	100	85 - 120	
Dibromofluoromethane	0.03361	0.03227	96.0	80 - 125	
1,2-Dichloroethane-d4	0.03361	0.03428	102	75 - 140	
Toluene-d8	0.03361	0.03557	106	85 - 115	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-22 File ID: 0702122D.D

Sampled: 07/01/11 13:30 Prepared: 07/10/11 00:00 Analyzed: 07/10/11 18:12

Solids: 79.38 Preparation: 5035 Dilution: 50

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.0678	0.136	0.271	U
100-41-4	Ethylbenzene		0.0678	0.136	0.271	U
1634-04-4	Methyl t-Butyl Ether		0.0678	0.136	0.271	U
108-88-3	Toluene		0.0678	0.136	0.271	U
1330-20-7	Xylenes (total)		0.203	0.407	0.813	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03253	0.03302	102	85 - 120	
Dibromofluoromethane	0.03253	0.03127	96.1	80 - 125	
1,2-Dichloroethane-d4	0.03253	0.03319	102	75 - 140	
Toluene-d8	0.03253	0.03418	105	85 - 115	

ANALYSIS DATA SHEET

Trip Blank

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Water Laboratory ID: 1107021-23 File ID: 0702123.D

Sampled: 07/01/11 00:00 Prepared: 07/07/11 00:00 Analyzed: 07/07/11 11:06

Solids: Preparation: 5030B Dilution: 1

Batch: 1G07009 Sequence: 1G18901 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
108-88-3	Toluene	0.357	0.250	0.500	1.00	I
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.62	109	75 - 120	X
Dibromofluoromethane	30.00	29.99	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.07	100	70 - 120	
Toluene-d8	30.00	33.73	112	85 - 120	X

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G18901
Instrument: MS-VOA4
Calibration: 1154004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G18901-CCV1) ug/L				Lab File ID: 0707CCV1.D		Analyzed: 07/07/11 08:18		
Bromofluorobenzene	30.00	121	80 - 120	12.325	12.325	0.0000	+/-1.000	*
Dibromofluoromethane	30.00	106	80 - 120	6.998	6.998	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.492	7.492	0.0000	+/-1.000	
Toluene-d8	30.00	122	80 - 120	9.701	9.701	0.0000	+/-1.000	*
LCS (1G07009-BS1) ug/L				Lab File ID: 0707LCS1.D		Analyzed: 07/07/11 08:57		
Bromofluorobenzene	30.00	120	75 - 120	12.322	12.325	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.995	6.998	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.488	7.492	-0.0040	+/-1.000	
Toluene-d8	30.00	120	85 - 120	9.708	9.701	0.0070	+/-1.000	
Blank (1G07009-BLK1) ug/L				Lab File ID: 0707BLK1.D		Analyzed: 07/07/11 10:14		
Bromofluorobenzene	30.00	110	75 - 120	12.326	12.325	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.999	6.998	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.492	7.492	0.0000	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.702	9.701	0.0010	+/-1.000	
Trip Blank (1107021-23) ug/L				Lab File ID: 0702123.D		Analyzed: 07/07/11 11:06		
Bromofluorobenzene	30.00	109	75 - 120	12.326	12.325	0.0010	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.999	6.998	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.493	7.492	0.0010	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.702	9.701	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G19202
Instrument: MS-VOA6
Calibration: 1178001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G19202-CCV1) ug/L				Lab File ID: 0710CCV1.D		Analyzed: 07/10/11 08:06		
Bromofluorobenzene	30.00	115	80 - 120	12.272	12.272	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.8	80 - 120	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	30.00	116	80 - 120	9.653	9.653	0.0000	+/-1.000	
LCS (1G10001-BS1) mg/Kg wet				Lab File ID: 0710LS1.D		Analyzed: 07/10/11 08:43		
Bromofluorobenzene	0.03000	109	85 - 120	12.262	12.272	-0.0100	+/-1.000	
Dibromofluoromethane	0.03000	97.5	80 - 125	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	0.03000	102	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.03000	111	85 - 115	9.653	9.653	0.0000	+/-1.000	
Blank (1G10001-BLK1) mg/Kg wet				Lab File ID: 0710BL1.D		Analyzed: 07/10/11 10:04		
Bromofluorobenzene	0.03000	102	85 - 120	12.268	12.272	-0.0040	+/-1.000	
Dibromofluoromethane	0.03000	93.0	80 - 125	6.951	6.955	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	0.03000	105	75 - 140	7.444	7.447	-0.0030	+/-1.000	
Toluene-d8	0.03000	107	85 - 115	9.649	9.653	-0.0040	+/-1.000	
Blank (1G10001-BLK2) mg/Kg wet				Lab File ID: 0710BL2.D		Analyzed: 07/10/11 10:31		
Bromofluorobenzene	0.03000	101	85 - 120	12.267	12.272	-0.0050	+/-1.000	
Dibromofluoromethane	0.03000	93.4	80 - 125	6.951	6.955	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	0.03000	93.6	75 - 140	7.443	7.447	-0.0040	+/-1.000	
Toluene-d8	0.03000	108	85 - 115	9.649	9.653	-0.0040	+/-1.000	
MPT-1343-SS18-20110701-4 (1107021-07) mg/Kg dry				Lab File ID: 0702107.D		Analyzed: 07/10/11 10:58		
Bromofluorobenzene	0.03158	83.8	85 - 120	12.266	12.272	-0.0060	+/-1.000	*
Dibromofluoromethane	0.03158	95.2	80 - 125	6.949	6.955	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	0.03158	99.4	75 - 140	7.451	7.447	0.0040	+/-1.000	
Toluene-d8	0.03158	122	85 - 115	9.647	9.653	-0.0060	+/-1.000	*
MPT-1343-SS18-20110701-4.5 (1107021-08) mg/Kg dry				Lab File ID: 0702108.D		Analyzed: 07/10/11 11:25		
Bromofluorobenzene	0.04245	83.2	85 - 120	12.267	12.272	-0.0050	+/-1.000	*
Dibromofluoromethane	0.04245	96.8	80 - 125	6.95	6.955	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	0.04245	103	75 - 140	7.443	7.447	-0.0040	+/-1.000	
Toluene-d8	0.04245	124	85 - 115	9.648	9.653	-0.0050	+/-1.000	*
MPT-1343-SS18-20110701-2 (1107021-10) mg/Kg dry				Lab File ID: 0702110.D		Analyzed: 07/10/11 11:52		
Bromofluorobenzene	0.03471	100	85 - 120	12.264	12.272	-0.0080	+/-1.000	
Dibromofluoromethane	0.03471	99.8	80 - 125	6.958	6.955	0.0030	+/-1.000	
1,2-Dichloroethane-d4	0.03471	111	75 - 140	7.45	7.447	0.0030	+/-1.000	
Toluene-d8	0.03471	106	85 - 115	9.655	9.653	0.0020	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G19202
Instrument: MS-VOA6
Calibration: 1178001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS19-20110701-2 (1107021-12) mg/Kg dry				Lab File ID: 0702112.D		Analyzed: 07/10/11 12:20		
Bromofluorobenzene	0.02970	99.7	85 - 120	12.262	12.272	-0.0100	+/-1.000	
Dibromofluoromethane	0.02970	98.5	80 - 125	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	0.02970	106	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.02970	110	85 - 115	9.653	9.653	0.0000	+/-1.000	
MPT-1343-SS19-20110701-4 (1107021-13) mg/Kg dry				Lab File ID: 0702113.D		Analyzed: 07/10/11 12:47		
Bromofluorobenzene	0.03962	102	85 - 120	12.266	12.272	-0.0060	+/-1.000	
Dibromofluoromethane	0.03962	97.6	80 - 125	6.95	6.955	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	0.03962	107	75 - 140	7.452	7.447	0.0050	+/-1.000	
Toluene-d8	0.03962	106	85 - 115	9.657	9.653	0.0040	+/-1.000	
MPT-1343-SS19-20110701-4.5 (1107021-14) mg/Kg dry				Lab File ID: 0702114.D		Analyzed: 07/10/11 13:14		
Bromofluorobenzene	0.03563	95.5	85 - 120	12.262	12.272	-0.0100	+/-1.000	
Dibromofluoromethane	0.03563	98.7	80 - 125	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	0.03563	108	75 - 140	7.448	7.447	0.0010	+/-1.000	
Toluene-d8	0.03563	107	85 - 115	9.653	9.653	0.0000	+/-1.000	
MPT-1343-SS20-20110701-2.0 (1107021-16) mg/Kg dry				Lab File ID: 0702116D.D		Analyzed: 07/10/11 13:41		
Bromofluorobenzene	0.03176	102	85 - 120	12.262	12.272	-0.0100	+/-1.000	
Dibromofluoromethane	0.03176	99.8	80 - 125	6.945	6.955	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	0.03176	110	75 - 140	7.448	7.447	0.0010	+/-1.000	
Toluene-d8	0.03176	106	85 - 115	9.653	9.653	0.0000	+/-1.000	
MPT-1343-SS20-20110701-4.0 (1107021-17) mg/Kg dry				Lab File ID: 0702117D.D		Analyzed: 07/10/11 14:35		
Bromofluorobenzene	0.06045	102	85 - 120	12.262	12.272	-0.0100	+/-1.000	
Dibromofluoromethane	0.06045	97.3	80 - 125	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	0.06045	105	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.06045	105	85 - 115	9.653	9.653	0.0000	+/-1.000	
MPT-1343-SS20-20110701-4.5 (1107021-18) mg/Kg dry				Lab File ID: 0702118D.D		Analyzed: 07/10/11 15:30		
Bromofluorobenzene	0.04222	103	85 - 120	12.261	12.272	-0.0110	+/-1.000	
Dibromofluoromethane	0.04222	96.0	80 - 125	6.954	6.955	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	0.04222	99.4	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.04222	107	85 - 115	9.652	9.653	-0.0010	+/-1.000	
MPT-1343-SS21-20110701-2 (1107021-20) mg/Kg dry				Lab File ID: 0702120D.D		Analyzed: 07/10/11 16:24		
Bromofluorobenzene	0.03098	102	85 - 120	12.261	12.272	-0.0110	+/-1.000	
Dibromofluoromethane	0.03098	96.9	80 - 125	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	0.03098	104	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.03098	106	85 - 115	9.652	9.653	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G19202
Instrument: MS-VOA6
Calibration: 1178001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS21-20110701-4 (1107021-21) mg/Kg dry				Lab File ID: 0702121D.D		Analyzed: 07/10/11 17:18		
Bromofluorobenzene	0.03361	100	85 - 120	12.271	12.272	-0.0010	+/-1.000	
Dibromofluoromethane	0.03361	96.0	80 - 125	6.954	6.955	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	0.03361	102	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.03361	106	85 - 115	9.652	9.653	-0.0010	+/-1.000	
MPT-1343-SS21-20110701-4.5 (1107021-22) mg/Kg dry				Lab File ID: 0702122D.D		Analyzed: 07/10/11 18:12		
Bromofluorobenzene	0.03253	102	85 - 120	12.267	12.272	-0.0050	+/-1.000	
Dibromofluoromethane	0.03253	96.1	80 - 125	6.95	6.955	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	0.03253	102	75 - 140	7.443	7.447	-0.0040	+/-1.000	
Toluene-d8	0.03253	105	85 - 115	9.648	9.653	-0.0050	+/-1.000	
LCS Dup (1G10001-BSD1) mg/Kg wet				Lab File ID: 0710LCD1.D		Analyzed: 07/10/11 19:34		
Bromofluorobenzene	0.03000	108	85 - 120	12.271	12.272	-0.0010	+/-1.000	
Dibromofluoromethane	0.03000	98.4	80 - 125	6.955	6.955	0.0000	+/-1.000	
1,2-Dichloroethane-d4	0.03000	100	75 - 140	7.447	7.447	0.0000	+/-1.000	
Toluene-d8	0.03000	109	85 - 115	9.652	9.653	-0.0010	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Water		
Batch:	1G07009	Laboratory ID:	1G07009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Benzene	50.00	54.1	108	80 - 120
Ethylbenzene	50.00	57.2	114	75 - 125
Methyl t-Butyl Ether	50.00	43.0	85.9	65 - 125
Toluene	50.00	56.3	113	75 - 120
Xylenes (total)	150.0	163	108	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1G10001	Laboratory ID:	1G10001-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Benzene	0.05000	0.05367	107	75 - 125
Ethylbenzene	0.05000	0.04934	98.7	75 - 125
Methyl t-Butyl Ether	0.05000	0.03985	79.7	55 - 150
Toluene	0.05000	0.05188	104	70 - 125
Xylenes (total)	0.1500	0.1454	97.0	75 - 125

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	0.05000	0.05396	108	0.541	30	75 - 125
Ethylbenzene	0.05000	0.04927	98.5	0.148	30	75 - 125
Methyl t-Butyl Ether	0.05000	0.04026	80.5	1.02	30	55 - 150
Toluene	0.05000	0.05324	106	2.59	30	70 - 125
Xylenes (total)	0.1500	0.1458	97.2	0.258	30	75 - 125

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1G07009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
Trip Blank	1107021-23	07/07/11 00:00	5.00	5.00
Blank	1G07009-BLK1	07/07/11 00:00	5.00	5.00
LCS	1G07009-BS1	07/07/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1G10001 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS18-20110701-4	1107021-07	07/10/11 00:00	5.59	5.00
MPT-1343-SS18-20110701-4.5	1107021-08	07/10/11 00:00	5.36	5.00
MPT-1343-SS18-20110701-2	1107021-10	07/10/11 00:00	5.30	5.00
MPT-1343-SS19-20110701-2	1107021-12	07/10/11 00:00	5.66	5.00
MPT-1343-SS19-20110701-4	1107021-13	07/10/11 00:00	4.54	5.00
MPT-1343-SS19-20110701-4.5	1107021-14	07/10/11 00:00	4.89	5.00
MPT-1343-SS20-20110701-2.0	1107021-16	07/10/11 00:00	5.84	5.00
MPT-1343-SS20-20110701-4.0	1107021-17	07/10/11 00:00	3.94	5.00
MPT-1343-SS20-20110701-4.5	1107021-18	07/10/11 00:00	4.10	5.00
MPT-1343-SS21-20110701-2	1107021-20	07/10/11 00:00	5.78	5.00
MPT-1343-SS21-20110701-4	1107021-21	07/10/11 00:00	5.07	5.00
MPT-1343-SS21-20110701-4.5	1107021-22	07/10/11 00:00	5.81	5.00
Blank	1G10001-BLK1	07/10/11 00:00	5.00	5.00
Blank	1G10001-BLK2	07/10/11 00:00	5.00	5.00
LCS	1G10001-BS1	07/10/11 00:00	5.00	5.00
LCS Dup	1G10001-BSD1	07/10/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0601TU1.D	Injection Date:	06/01/11
Instrument ID:	MS-VOA4	Injection Time:	09:04
Sequence:	1F15404	Lab Sample ID:	1F15404-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	41.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.12	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	106	PASS
175	5 - 9% of 174	7.41	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.85	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0601TU2.D	Injection Date:	06/01/11
Instrument ID:	MS-VOA4	Injection Time:	23:49
Sequence:	1F15404	Lab Sample ID:	1F15404-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.9	PASS
75	30 - 60% of 95	41.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.77	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	116	PASS
175	5 - 9% of 174	7.33	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.74	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0601TU3.D	Injection Date:	06/02/11
Instrument ID:	MS-VOA4	Injection Time:	06:07
Sequence:	1F15404	Lab Sample ID:	1F15404-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.3	PASS
75	30 - 60% of 95	41.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.72	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	122	PASS
175	5 - 9% of 174	6.95	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.61	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0625TUN1.D	Injection Date:	06/25/11
Instrument ID:	MS-VOA6	Injection Time:	07:36
Sequence:	1F17801	Lab Sample ID:	1F17801-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.6	PASS
75	30 - 60% of 95	53	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.81	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	126	PASS
175	5 - 9% of 174	6.65	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0707TU1.D	Injection Date:	07/07/11
Instrument ID:	MS-VOA4	Injection Time:	07:52
Sequence:	1G18901	Lab Sample ID:	1G18901-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	40.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.13	PASS
173	Less than 2% of 174	0.622	PASS
174	50 - 200% of 95	58.3	PASS
175	5 - 9% of 174	7.26	PASS
176	95 - 101% of 174	98.4	PASS
177	5 - 9% of 176	7.01	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	0710TUN1.D	Injection Date:	07/10/11
Instrument ID:	MS-VOA6	Injection Time:	07:39
Sequence:	1G19202	Lab Sample ID:	1G19202-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.6	PASS
75	30 - 60% of 95	58.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.27	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	92.6	PASS
175	5 - 9% of 174	7.21	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	6.31	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1F15404
Instrument: MS-VOA4
Calibration: 1154004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F15404-TUN1	0601TU1.D	06/01/11 09:04
Cal Standard	1F15404-CAL1	0601CAL1.D	06/01/11 09:44
Cal Standard	1F15404-CAL2	0601CAL2.D	06/01/11 10:15
Cal Standard	1F15404-CAL3	0601CAL3.D	06/01/11 10:47
Cal Standard	1F15404-CAL4	0601CAL4.D	06/01/11 11:22
Cal Standard	1F15404-CAL5	0601CAL5.D	06/01/11 11:57
Cal Standard	1F15404-CAL6	0601CAL6.D	06/01/11 12:33
Cal Standard	1F15404-CAL7	0601CAL7.D	06/01/11 13:16
Cal Standard	1F15404-CAL8	0601CAL8.D	06/01/11 14:07
Cal Standard	1F15404-CAL9	0601CAL9.D	06/01/11 14:49
Initial Cal Check	1F15404-ICV2	0601ICV2.D	06/01/11 16:25
MS Tune	1F15404-TUN2	0601TU2.D	06/01/11 23:49
Cal Standard	1F15404-CALJ	0601CALJ.D	06/02/11 00:18
Cal Standard	1F15404-CALK	0601CALK.D	06/02/11 00:47
Cal Standard	1F15404-CALL	0601CALL.D	06/02/11 01:15
Cal Standard	1F15404-CALM	0601CALM.D	06/02/11 01:44
Cal Standard	1F15404-CALN	0601CALN.D	06/02/11 02:13
Cal Standard	1F15404-CALO	0601CALO.D	06/02/11 02:40
Cal Standard	1F15404-CALP	0601CALP.D	06/02/11 03:08
Cal Standard	1F15404-CALQ	0601CALQ.D	06/02/11 03:36
Cal Standard	1F15404-CALR	0601CALR.D	06/02/11 04:04
MS Tune	1F15404-TUN3	0601TU3.D	06/02/11 06:07
Cal Standard	1F15404-CALA	601CALA.D	06/02/11 06:47
Cal Standard	1F15404-CALB	601CALB.D	06/02/11 07:14
Cal Standard	1F15404-CALC	601CALC.D	06/02/11 07:43
Cal Standard	1F15404-CALD	601CALD.D	06/02/11 08:13
Cal Standard	1F15404-CALE	601CALE.D	06/02/11 08:44
Cal Standard	1F15404-CALF	601CALF.D	06/02/11 09:17
Cal Standard	1F15404-CALG	601CALG.D	06/02/11 09:50
Cal Standard	1F15404-CALH	601CALH.D	06/02/11 10:26
Cal Standard	1F15404-CALI	601CALI.D	06/02/11 11:07

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1F17801	Instrument:	MS-VOA6
Calibration:	1178001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17801-TUN1	0625TUN1.D	06/25/11 07:36
Cal Standard	1F17801-CAL1	SEQCAL1.D	06/25/11 08:12
Cal Standard	1F17801-CAL2	SEQCAL2.D	06/25/11 08:39
Cal Standard	1F17801-CAL3	SEQCAL3.D	06/25/11 09:06
Cal Standard	1F17801-CAL4	SEQCAL4.D	06/25/11 09:33
Cal Standard	1F17801-CAL5	SEQCAL5.D	06/25/11 10:00
Cal Standard	1F17801-CAL6	SEQCAL6.D	06/25/11 10:27
Cal Standard	1F17801-CAL7	SEQCAL7.D	06/25/11 10:54
Cal Standard	1F17801-CAL8	SEQCAL8.D	06/25/11 11:21
Initial Cal Check	1F17801-ICV2	SEQICV2.D	06/25/11 12:15
Cal Standard	1F17801-CAL9	SEQCAL9.D	06/25/11 13:09
Cal Standard	1F17801-CALA	SEQCALA.D	06/25/11 13:36
Cal Standard	1F17801-CALB	SEQCALB.D	06/25/11 14:03
Cal Standard	1F17801-CALC	SEQCALC.D	06/25/11 14:30
Cal Standard	1F17801-CALD	SEQCALD.D	06/25/11 14:57
Cal Standard	1F17801-CALE	SEQCALE.D	06/25/11 15:24
Cal Standard	1F17801-CALF	SEQCALF.D	06/25/11 15:51
Cal Standard	1F17801-CALG	SEQCALG.D	06/25/11 16:18
Cal Standard	1F17801-CALH	SEQCALH.D	06/25/11 16:45

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1G18901	Instrument:	MS-VOA4
Calibration:	1154004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G18901-TUN1	0707TU1.D	07/07/11 07:52
Calibration Check	1G18901-CCV1	0707CCV1.D	07/07/11 08:18
LCS	1G07009-BS1	0707LCS1.D	07/07/11 08:57
Blank	1G07009-BLK1	0707BLK1.D	07/07/11 10:14
Trip Blank	1107021-23	0702123.D	07/07/11 11:06

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G19202
Instrument: MS-VOA6
Calibration: 1178001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G19202-TUN1	0710TUN1.D	07/10/11 07:39
Calibration Check	1G19202-CCV1	0710CCV1.D	07/10/11 08:06
LCS	1G10001-BS1	0710LS1.D	07/10/11 08:43
Blank	1G10001-BLK1	0710BL1.D	07/10/11 10:04
Blank	1G10001-BLK2	0710BL2.D	07/10/11 10:31
MPT-1343-SS18-20110701-4	1107021-07	0702107.D	07/10/11 10:58
MPT-1343-SS18-20110701-4.5	1107021-08	0702108.D	07/10/11 11:25
MPT-1343-SS18-20110701-2	1107021-10	0702110.D	07/10/11 11:52
MPT-1343-SS19-20110701-2	1107021-12	0702112.D	07/10/11 12:20
MPT-1343-SS19-20110701-4	1107021-13	0702113.D	07/10/11 12:47
MPT-1343-SS19-20110701-4.5	1107021-14	0702114.D	07/10/11 13:14
MPT-1343-SS20-20110701-2.0	1107021-16	0702116D.D	07/10/11 13:41
MPT-1343-SS20-20110701-4.0	1107021-17	0702117D.D	07/10/11 14:35
MPT-1343-SS20-20110701-4.5	1107021-18	0702118D.D	07/10/11 15:30
MPT-1343-SS21-20110701-2	1107021-20	0702120D.D	07/10/11 16:24
MPT-1343-SS21-20110701-4	1107021-21	0702121D.D	07/10/11 17:18
MPT-1343-SS21-20110701-4.5	1107021-22	0702122D.D	07/10/11 18:12
LCS Dup	1G10001-BSD1	0710LCD1.D	07/10/11 19:34

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G18901
Instrument: MS-VOA4
Calibration: 1154004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G18901-CCV1)			Lab File ID: 0707CCV1.D			Analyzed: 07/07/11 08:18			
Fluorobenzene	1133448	8.024	915142	7.963	124	50 - 200	0.0610	+/-0.50	
Chlorobenzene-d5	371786	11.132	341298	11.1	109	50 - 200	0.0320	+/-0.50	
1,4-Dichlorobenzene-d4	388935	13.529	488604	13.507	80	50 - 200	0.0220	+/-0.50	
LCS (1G07009-BS1)			Lab File ID: 0707LCS1.D			Analyzed: 07/07/11 08:57			
Fluorobenzene	1097172	8.021	1133448	8.024	97	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	377548	11.128	371786	11.132	102	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	394412	13.525	388935	13.529	101	50 - 200	-0.0040	+/-0.50	
Blank (1G07009-BLK1)			Lab File ID: 0707BLK1.D			Analyzed: 07/07/11 10:14			
Fluorobenzene	1079229	8.015	1133448	8.024	95	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	397846	11.132	371786	11.132	107	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	385329	13.529	388935	13.529	99	50 - 200	0.0000	+/-0.50	
Trip Blank (1107021-23)			Lab File ID: 0702123.D			Analyzed: 07/07/11 11:06			
Fluorobenzene	1105870	8.015	1133448	8.024	98	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	404063	11.133	371786	11.132	109	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	381330	13.53	388935	13.529	98	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G19202
Instrument: MS-VOA6
Calibration: 1178001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G19202-CCV1)			Lab File ID: 0710CCV1.D			Analyzed: 07/10/11 08:06			
Fluorobenzene	457867	7.969	391577	7.964	117	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	187644	11.08	159325	11.076	118	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	174145	13.473	152697	13.468	114	50 - 200	0.0050	+/-0.50	
LCS (1G10001-BS1)			Lab File ID: 0710LS1.D			Analyzed: 07/10/11 08:43			
Fluorobenzene	450149	7.969	457867	7.969	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	196269	11.08	187644	11.08	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	182730	13.473	174145	13.473	105	50 - 200	0.0000	+/-0.50	
Blank (1G10001-BLK1)			Lab File ID: 0710BL1.D			Analyzed: 07/10/11 10:04			
Fluorobenzene	446474	7.966	457867	7.969	98	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	200399	11.077	187644	11.08	107	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	181269	13.469	174145	13.473	104	50 - 200	-0.0040	+/-0.50	
Blank (1G10001-BLK2)			Lab File ID: 0710BL2.D			Analyzed: 07/10/11 10:31			
Fluorobenzene	447172	7.965	457867	7.969	98	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	196342	11.076	187644	11.08	105	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	179354	13.469	174145	13.473	103	50 - 200	-0.0040	+/-0.50	
MPT-1343-SS18-20110701-4 (1107021-07)			Lab File ID: 0702107.D			Analyzed: 07/10/11 10:58			
Fluorobenzene	435005	7.973	457867	7.969	95	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	159432	11.074	187644	11.08	85	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	90387	13.467	174145	13.473	52	50 - 200	-0.0060	+/-0.50	
MPT-1343-SS18-20110701-4.5 (1107021-08)			Lab File ID: 0702108.D			Analyzed: 07/10/11 11:25			
Fluorobenzene	415535	7.964	457867	7.969	91	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	153654	11.076	187644	11.08	82	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	88625	13.468	174145	13.473	51	50 - 200	-0.0050	+/-0.50	
MPT-1343-SS18-20110701-2 (1107021-10)			Lab File ID: 0702110.D			Analyzed: 07/10/11 11:52			
Fluorobenzene	427355	7.972	457867	7.969	93	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	194150	11.073	187644	11.08	103	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	163217	13.466	174145	13.473	94	50 - 200	-0.0070	+/-0.50	
MPT-1343-SS19-20110701-2 (1107021-12)			Lab File ID: 0702112.D			Analyzed: 07/10/11 12:20			
Fluorobenzene	438906	7.969	457867	7.969	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	192439	11.08	187644	11.08	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	155712	13.463	174145	13.473	89	50 - 200	-0.0100	+/-0.50	
MPT-1343-SS19-20110701-4 (1107021-13)			Lab File ID: 0702113.D			Analyzed: 07/10/11 12:47			
Fluorobenzene	437563	7.974	457867	7.969	96	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	193552	11.075	187644	11.08	103	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	167100	13.467	174145	13.473	96	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G19202
Instrument: MS-VOA6
Calibration: 1178001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MPT-1343-SS19-20110701-4.5 (1107021-14)			Lab File ID: 0702114.D			Analyzed: 07/10/11 13:14			
Fluorobenzene	431973	7.969	457867	7.969	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	188961	11.08	187644	11.08	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	142977	13.463	174145	13.473	82	50 - 200	-0.0100	+/-0.50	
MPT-1343-SS20-20110701-2.0 (1107021-16)			Lab File ID: 0702116D.D			Analyzed: 07/10/11 13:41			
Fluorobenzene	420845	7.959	457867	7.969	92	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	195074	11.071	187644	11.08	104	50 - 200	-0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	180380	13.463	174145	13.473	104	50 - 200	-0.0100	+/-0.50	
MPT-1343-SS20-20110701-4.0 (1107021-17)			Lab File ID: 0702117D.D			Analyzed: 07/10/11 14:35			
Fluorobenzene	422951	7.969	457867	7.969	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	190557	11.08	187644	11.08	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	176134	13.463	174145	13.473	101	50 - 200	-0.0100	+/-0.50	
MPT-1343-SS20-20110701-4.5 (1107021-18)			Lab File ID: 0702118D.D			Analyzed: 07/10/11 15:30			
Fluorobenzene	415630	7.969	457867	7.969	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	185777	11.08	187644	11.08	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	172157	13.472	174145	13.473	99	50 - 200	-0.0010	+/-0.50	
MPT-1343-SS21-20110701-2 (1107021-20)			Lab File ID: 0702120D.D			Analyzed: 07/10/11 16:24			
Fluorobenzene	443024	7.969	457867	7.969	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	199811	11.08	187644	11.08	106	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	183192	13.472	174145	13.473	105	50 - 200	-0.0010	+/-0.50	
MPT-1343-SS21-20110701-4 (1107021-21)			Lab File ID: 0702121D.D			Analyzed: 07/10/11 17:18			
Fluorobenzene	442345	7.969	457867	7.969	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	198293	11.08	187644	11.08	106	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	177021	13.472	174145	13.473	102	50 - 200	-0.0010	+/-0.50	
MPT-1343-SS21-20110701-4.5 (1107021-22)			Lab File ID: 0702122D.D			Analyzed: 07/10/11 18:12			
Fluorobenzene	457466	7.964	457867	7.969	100	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	205546	11.076	187644	11.08	110	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	187762	13.468	174145	13.473	108	50 - 200	-0.0050	+/-0.50	
LCS Dup (1G10001-BSD1)			Lab File ID: 0710LCD1.D			Analyzed: 07/10/11 19:34			
Fluorobenzene	442703	7.969	457867	7.969	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	190157	11.08	187644	11.08	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	173901	13.472	174145	13.473	100	50 - 200	-0.0010	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	~~5.568948E-02~~	5.002	3.585282E-02	10	2.987789E-02	25.01	1.777999E-02	50.02	1.273603E-02	250.1	1.211425E-02
Acrylonitrile	2.499	0.124854	4.998	0.134431	9.996	0.1302964	24.99	0.1242613	49.98	0.1252671	249.9	0.1304118
Benzene	0.5	1.08056	1	0.9719515	2	0.9334702	5	0.9247691	10	0.9081825	50	0.8875279
Bromobenzene	0.5	0.705512	1	0.7342649	2	0.7065945	5	0.7045195	10	0.6736183	50	0.6824926
Bromochloromethane	0.5	0.1621672	1	0.1624302	2	0.1520382	5	0.1451715	10	0.1435562	50	0.1385933
Tert-Amyl Methyl Ether	0.5	0.8006564	1	0.8201087	2	0.7770061	5	0.772233	10	0.7589769	50	0.7360608
Bromodichloromethane	0.5	0.3485986	1	0.3709666	2	0.3427021	5	0.331761	10	0.3143367	50	0.3167253
Bromoform	0.5	0.6739485	1	0.7085094	2	0.6980391	5	0.6988144	10	0.7139334	50	0.7781807
Bromomethane	0.5	0.2278535	1	0.1640012	2	0.1444606	5	0.1366239	10	0.1470018	50	0.1617592
Bromofluorobenzene												
n-Butylbenzene	0.5	1.391575	1	1.09733	2	1.069643	5	0.9938672	10	0.9714506	50	0.9633661
2-Butanone												
sec-Butylbenzene	0.5	1.672491	1	1.520738	2	1.452101	5	1.346056	10	1.33476	50	1.333908
tert-Butylbenzene	0.5	1.363982	1	1.125831	2	1.086495	5	1.038697	10	1.022863	50	1.041584
Carbon disulfide	0.5	1.004502	1	0.8525537	2	0.7881881	5	0.7818405	10	0.7843687	50	0.7681532
Carbon tetrachloride	0.5	0.3327212	1	0.3062814	2	0.2799354	5	0.2805783	10	0.2876827	50	0.293355
Chlorobenzene	0.5	1.63174	1	1.53322	2	1.459515	5	1.435774	10	1.44176	50	1.550469
Chloroethane	0.5	0.2454595	1	0.171549	2	0.1635555	5	0.1334101	10	0.155297	50	0.1437858
Chloroform	0.5	0.5807416	1	0.5374268	2	0.4775231	5	0.4450467	10	0.4256098	50	0.4235655
2-Chloroethyl vinyl ether	0.9975	0.2008904	1.995	0.2146398	3.99	0.2169399	9.975	0.2018437	19.95	0.1928054	99.75	0.1969345
Chloromethane	0.5	0.3917493	1	0.2785494	2	0.2946045	5	0.2796278	10	0.280346	50	0.2796243
1-Chlorohexane	0.4992	1.760833	0.9984	1.454763	1.997	1.361809	4.992	1.266139	9.984	1.296945	49.92	1.324646
2-Chlorotoluene	0.5	1.56224	1	1.266946	2	1.258994	5	1.236761	10	1.187206	50	1.161849
4-Chlorotoluene	0.5	1.639671	1	1.511217	2	1.448345	5	1.386386	10	1.332319	50	1.319355
Cyclohexane	0.5	0.3926456	1	0.4150918	2	0.3994001	5	0.371572	10	0.3799964	50	0.3644676
Dibromochloromethane	0.5	0.650917	1	0.6933306	2	0.6566589	5	0.6566225	10	0.6402316	50	0.7020267
1,2-Dibromo-3-chloropropane	0.5		1	0.1742184	2	0.1640094	5	0.172407	10	0.1685599	50	0.1767754
1,2-Dibromoethane (EDB)	0.5	0.6324918	1	0.7347348	2	0.6809326	5	0.6604094	10	0.6808511	50	0.6956214
Dibromomethane	0.5	0.1994919	1	0.2255785	2	0.2041259	5	0.19632	10	0.1930743	50	0.1926447
1,2-Dichlorobenzene	0.5	0.9651559	1	1.040392	2	0.9990785	5	0.9581145	10	0.9449221	50	0.9693253

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.077231	1	1.062398	2	1.050645	5	1.009996	10	0.9490391	50	0.9795653
1,4-Dichlorobenzene	0.5	1.213374	1	1.079234	2	1.089525	5	0.9704661	10	0.9644655	50	1.023404
Dichlorodifluoromethane	0.5	0.2489807	1	0.2558378	2	0.239298	5	0.2577666	10	0.2533815	50	0.2521754
1,1-Dichloroethane	0.5	0.5123663	1	0.5136565	2	0.4759808	5	0.4668122	10	0.4620641	50	0.4654421
1,2-Dichloroethane	0.5	0.3503272	1	0.3964103	2	0.3514533	5	0.3384486	10	0.3453712	50	0.3511849
1,1-Dichloroethene	0.5	0.2933478	1	0.2516712	2	0.2260372	5	0.2278092	10	0.2196439	50	0.2183092
cis-1,2-Dichloroethene	0.5	0.3713904	1	0.284731	2	0.3085694	5	0.2802774	10	0.2801232	50	0.2842319
trans-1,2-Dichloroethene	0.5	0.3634517	1	0.308433	2	0.2587785	5	0.2535065	10	0.2525243	50	0.2537653
1,2-Dichloroethene (total)	1	0.367421	2	0.296582	4	0.283674	10	0.2668919	20	0.2663238	100	0.2689986
1,2-Dichloropropane	0.5	0.2770863	1	0.2797789	2	0.284311	5	0.2794295	10	0.2674982	50	0.2606778
1,3-Dichloropropane	0.5	0.8138845	1	0.9923516	2	0.9146815	5	0.9336486	10	0.9422092	50	0.9579963
2,2-Dichloropropane	0.5	0.4452075	1	0.3900238	2	0.3358119	5	0.3117187	10	0.3166248	50	0.3031632
1,1-Dichloropropene	0.5	0.3891244	1	0.347811	2	0.3116373	5	0.310946	10	0.3130476	50	0.3182402
cis-1,3-Dichloropropene	0.5	0.4094193	1	0.4500301	2	0.4109844	5	0.396777	10	0.4076324	50	0.4011491
trans-1,3-Dichloropropene	0.5	0.8248443	1	0.884161	2	0.8648668	5	0.8333862	10	0.8513797	50	0.8719308
1,3-Dichloropropene (total)	1	0.3709422	2	0.4040605	4	0.3885701	10	0.3737055	20	0.3801229	100	0.3731731
Diisopropyl Ether	0.5	1.172431	1	1.23964	2	1.209416	5	1.203392	10	1.204272	50	1.202896
Ethylbenzene	0.5	2.922614	1	2.65476	2	2.393679	5	2.262886	10	2.324657	50	2.378517
Ethyl tert-Butyl Ether	0.5	0.8716566	1	0.9477373	2	0.9144927	5	0.8689707	10	0.8915415	50	0.8734095
Ethyl Methacrylate	0.5	1.087244	1	1.004832	2	0.8978918	5	0.8817377	10	0.8571731	50	0.9000604
Hexachlorobutadiene	0.5	~~0.1948545~~	1	0.1572569	2	0.1309677	5	0.1288282	10	0.1275904	50	0.1254285
2-Hexanone												
Iodomethane	0.5	0.3686374	1	0.3765335	2	0.3606403	5	0.3864789	10	0.4018885	50	0.4287394
Isopropylbenzene	0.5	2.272809	1	1.976439	2	1.869912	5	1.764564	10	1.759089	50	1.801335
p-Isopropyltoluene	0.5	1.252028	1	1.084404	2	1.058535	5	1.034042	10	0.9754861	50	1.017222
Methylene chloride	0.5	0.3338096	1	0.2958306	2	0.294001	5	0.2727624	10	0.2633675	50	0.2653206
Methyl Acetate	0.5	0.5081409	1	0.4734588	2	0.4085535	5	0.3141462	10	0.3462958	50	0.3247245
Methylcyclohexane	0.5	0.3065363	1	0.321855	2	0.259667	5	0.2458205	10	0.2474959	50	0.2441423
Naphthalene	0.5	1.155756	1	1.219655	2	1.199254	5	1.27896	10	1.203561	50	1.252348
Methyl Methacrylate	0.5	0.4048097	1	0.3682344	2	0.3482848	5	0.3460046	10	0.3364179	50	0.3257833
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether	0.5	0.7393876	1	0.7793986	2	0.7247341	5	0.7121814	10	0.7286984	50	0.7215806
n-Propylbenzene	0.5	2.308716	1	1.974728	2	1.781887	5	1.857191	10	1.756166	50	1.741161
Styrene	0.5	1.689875	1	1.631292	2	1.573677	5	1.521929	10	1.552219	50	1.609894
1,1,2,2-Tetrachloroethane	0.5	0.6329429	1	0.6090394	2	0.6521561	5	0.6453142	10	0.6179003	50	0.6069466
1,1,1,2-Tetrachloroethane	0.5	0.5938943	1	0.5781409	2	0.5265784	5	0.5402212	10	0.5299112	50	0.5747226
tert-Butyl alcohol	2.5	3.541685E-02	5	3.834665E-02	10	3.544374E-02	25	3.912314E-02	50	3.697134E-02	250	3.576739E-02
Tetrachloroethene	0.5	1.016085	1	0.8774992	2	0.8226946	5	0.7708135	10	0.7923856	50	0.8307157
Toluene	0.5	1.575511	1	1.442317	2	1.361707	5	1.320705	10	1.341731	50	1.341295
1,2,3-Trichlorobenzene	0.5	0.5754469	1	0.5614967	2	0.5343798	5	0.5356452	10	0.5188969	50	0.5209851
1,2,4-Trichlorobenzene	0.5	0.6777972	1	0.6056345	2	0.5973705	5	0.5811193	10	0.5543059	50	0.5754435
1,1,2-Trichloroethane	0.5	0.504151	1	0.5423023	2	0.5233313	5	0.5023363	10	0.4953052	50	0.5035184
1,1,1-Trichloroethane	0.5	0.4332354	1	0.3887601	2	0.3569353	5	0.3563574	10	0.34066	50	0.342344
Tetrahydrofuran	0.5	~~0.1943701~~	1	0.136884	2	0.1230355	5	0.1151867	10	0.1100987	50	0.1126348
Trichloroethene	0.5	0.3304164	1	0.292996	2	0.2656185	5	0.2553733	10	0.2511171	50	0.2435681
Trichlorofluoromethane	0.5	0.3886763	1	0.4202831	2	0.375259	5	0.3817675	10	0.3781875	50	0.3853459
1,2,3-Trichloropropane	0.5	0.2514401	1	0.227428	2	0.2239285	5	0.2083587	10	0.2077013	50	0.2068384
1,3,5-Trimethylbenzene	0.5	1.481162	1	1.285231	2	1.291184	5	1.248661	10	1.231514	50	1.229488
1,2,4-Trimethylbenzene	0.5	1.581689	1	1.445074	2	1.373078	5	1.258666	10	1.260697	50	1.27432
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2703	1	0.2629074	2	0.236951	5	0.2321581	10	0.2312126	50	0.2387872
Vinyl chloride	0.5	0.3096734	1	0.2409131	2	0.2087362	5	0.2281921	10	0.2278378	50	0.2013283
m,p-Xylene	1	2.298938	2	2.094665	4	1.896383	10	1.76315	20	1.767213	100	1.774028
o-Xylene	0.5	2.266614	1	2.152934	2	1.940119	5	1.849322	10	1.799195	50	1.845254
Vinyl acetate	1.001	0.4756544	2.002	0.4748453	4.004	0.4065627	10.01	0.3915407	20.02	0.3978746	100.1	0.4077153
Xylenes (total)	1.5	2.288163	3	2.114088	6	1.910962	15	1.791874	30	1.777873	150	1.79777
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	2.5	2.977013E-02	5	2.902296E-02	10	2.755431E-02	25	3.010924E-02	50	3.044453E-02	250	2.943999E-02
tert-Amyl ethyl ether	0.5	0.7011026	1	0.7621857	2	0.7088412	5	0.7054528	10	0.7085848	50	0.6993899

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1	~~0.2500121~~	2	0.1535402	4	0.146459
Acrolein	500.2	1.182615E-02	750.3	1.193273E-02	1000	1.131899E-02						
Acrylonitrile	499.8	0.1274407	749.7	0.1285044	999.6	0.1289924						
Benzene	100	0.8663655	150	0.8541987	200	0.8320284						
Bromobenzene	100	0.6734834	150	0.694701	200	0.6814758						
Bromochloromethane	100	0.137736	150	0.1381979	200	0.1384461						
Tert-Amyl Methyl Ether	100	0.7050594	150	0.7150821	200	0.6908219						
Bromodichloromethane	100	0.3145718	150	0.3205611	200	0.3109374						
Bromoform	100	0.8355836	150	0.8634516	200	0.9170762						
Bromomethane	100	0.1654497	150	0.1688087	200	0.1694875						
Bromofluorobenzene							30	0.9013374	35	0.8645549	40	0.8770451
n-Butylbenzene	100	0.9409694	150	0.915554	200	0.8868169						
2-Butanone							1	0.2119675	2	0.218398	4	0.1873632
sec-Butylbenzene	100	1.278015	150	1.293468	200	1.225762						
tert-Butylbenzene	100	1.002928	150	1.001931	200	0.9661548						
Carbon disulfide	100	0.7742379	150	0.7750027	200	0.7734551						
Carbon tetrachloride	100	0.2915436	150	0.2936441	200	0.2911891						
Chlorobenzene	100	1.538669	150	1.554042	200	1.57159						
Chloroethane	100	0.1445435	150	0.1416332	200	0.1390003						
Chloroform	100	0.4103734	150	0.4156437	200	0.4103148						
2-Chloroethyl vinyl ether	199.5	0.1770332	299.2	0.1765873	399	0.1764969						
Chloromethane	100	0.2783358	150	0.2920192	200	0.2842337						
1-Chlorohexane	99.84	1.281823	149.8	1.274569	199.7	1.245502						
2-Chlorotoluene	100	1.085399	150	1.095589	200	1.037859						
4-Chlorotoluene	100	1.25964	150	1.226645	200	1.162101						
Cyclohexane	100	0.360921	150	0.3644257	200	0.3538782						
Dibromochloromethane	100	0.7175703	150	0.7405133	200	0.7852495						
1,2-Dibromo-3-chloropropane	100	0.1854054	150	0.1909515	200	0.1904689						
1,2-Dibromoethane (EDB)	100	0.7266723	150	0.7329176	200	0.771876						
Dibromomethane	100	0.1887107	150	0.1906417	200	0.1872932						
1,2-Dichlorobenzene	100	0.9517585	150	0.9520534	200	0.9281757						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	0.9586107	150	0.9347412	200	0.9542279						
1,4-Dichlorobenzene	100	0.9755907	150	1.000959	200	0.9572245						
Dichlorodifluoromethane	100	0.2498779	150	0.2494813	200	0.2430046						
1,1-Dichloroethane	100	0.4491172	150	0.463654	200	0.4572872						
1,2-Dichloroethane	100	0.3362652	150	0.3342031	200	0.3275413						
1,1-Dichloroethene	100	0.2206959	150	0.2232522	200	0.2202121						
cis-1,2-Dichloroethene	100	0.2730589	150	0.2751732	200	0.2702823						
trans-1,2-Dichloroethene	100	0.2474318	150	0.2483054	200	0.2346298						
1,2-Dichloroethene (total)	200	0.2602453	300	0.2617393	400	0.252456						
1,2-Dichloropropane	100	0.2598495	150	0.2581914	200	0.2471885						
1,3-Dichloropropane	100	0.969425	150	0.9667796	200	1.013905						
2,2-Dichloropropane	100	0.2878806	150	0.2808302	200	0.2590654						
1,1-Dichloropropene	100	0.2997784	150	0.3030345	200	0.287569						
cis-1,3-Dichloropropene	100	0.3831297	150	0.3884408	200	0.3717913						
trans-1,3-Dichloropropene	100	0.8507647	150	0.8699281	200	0.8473118						
1,3-Dichloropropene (total)	200	0.3502093	300	0.3568494	400	0.3360862						
Diisopropyl Ether	100	1.122709	150	1.099738	200	1.07913						
Ethylbenzene	100	2.403512	150	2.368522	200	2.411038						
Ethyl tert-Butyl Ether	100	0.8397192	150	0.8518846	200	0.8103197						
Ethyl Methacrylate	100	0.9400471	150	0.9860916	200	0.9839426						
Hexachlorobutadiene	100	0.1266756	150	0.1329273	200	0.1319729						
2-Hexanone							1	0.6929512	2	0.6237533	4	0.5694412
Iodomethane	100	0.4291777	150	0.4412324	200	0.4380503						
Isopropylbenzene	100	1.88096	150	1.866754	200	1.901504						
p-Isopropyltoluene	100	0.9441253	150	0.925419	200	0.9205864						
Methylene chloride	100	0.2540317	150	0.2600047	200	0.2593153						
Methyl Acetate	100	0.3229863	150	0.3260598	200	0.3270577						
Methylcyclohexane	100	0.2368718	150	0.2400342	200	0.23364						
Naphthalene	100	1.230488	150	1.274143	200	1.24185						
Methyl Methacrylate	100	0.3190475	150	0.3193761	200	0.3228442						
4-Methyl-2-pentanone							1	0.4120025	2	0.3609113	4	0.3731231

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether	100	0.701956	150	0.6980854	200	0.6663964						
n-Propylbenzene	100	1.673974	150	1.638983	200	1.554685						
Styrene	100	1.615324	150	1.636518	200	1.640504						
1,1,2,2-Tetrachloroethane	100	0.6082103	150	0.6031619	200	0.5906547						
1,1,1,2-Tetrachloroethane	100	0.5827804	150	0.598032	200	0.6234202						
tert-Butyl alcohol	500	3.623077E-02	750	3.518849E-02	1000	3.880913E-02						
Tetrachloroethene	100	0.8913067	150	0.8966587	200	0.933639						
Toluene	100	1.325724	150	1.354814	200	1.316697						
1,2,3-Trichlorobenzene	100	0.5336542	150	0.5647198	200	0.5510497						
1,2,4-Trichlorobenzene	100	0.5856847	150	0.5962185	200	0.5916147						
1,1,2-Trichloroethane	100	0.5098079	150	0.5321256	200	0.5412997						
1,1,1-Trichloroethane	100	0.3396696	150	0.3462364	200	0.3388549						
Tetrahydrofuran	100	0.1095702	150	0.1145656	200	0.1194973						
Trichloroethene	100	0.2415281	150	0.2471	200	0.2328769						
Trichlorofluoromethane	100	0.3707795	150	0.3806026	200	0.3846733						
1,2,3-Trichloropropane	100	0.2253608	150	0.2252519	200	0.240882						
1,3,5-Trimethylbenzene	100	1.196748	150	1.166915	200	1.107202						
1,2,4-Trimethylbenzene	100	1.206052	150	1.179058	200	1.126665						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2361683	150	0.2417745	200	0.2431232						
Vinyl chloride	100	0.1752253	150	0.162141	200	0.1517728						
m,p-Xylene	200	1.644332	300	1.648055	400	1.628426						
o-Xylene	100	1.894396	150	1.896493	200	1.869895						
Vinyl acetate	200.2	0.3975312	300.3	0.3971849	400.4	0.403404						
Xylenes (total)	300	1.727687	450	1.730868	600	1.708915						
Dibromofluoromethane							30	0.3023525	35	0.3024719	40	0.2881281
1,2-Dichloroethane-d4							30	6.269874E-02	35	6.236723E-02	40	6.131002E-02
Toluene-d8							30	2.222372	35	2.113746	40	2.082663
tert-Amyl alcohol	500	2.928503E-02	750	3.037335E-02	1000	3.276653E-02						
tert-Amyl ethyl ether	100	0.6641228	150	0.6715771	200	0.6458142						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	0.122563	20	9.826041E-02	100	0.1142677	200	0.1165648	300	0.11942	400	0.1245592
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	50	0.8131432	60	0.7848842	70	0.7942891	30	0.9340145	30	0.9359507	30	0.9566691
n-Butylbenzene												
2-Butanone	10	0.1688955	20	0.1733884	100	0.197541	200	0.1967783	300	0.2061603	400	0.2054493
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
1,3-Dichloropropene (total)												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.5404148	20	0.5833559	100	0.660758	200	0.6314121	300	0.6384493	400	0.6324422
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.322393	20	0.3290897	100	0.3757151	200	0.3739015	300	0.3754728	400	0.3608556

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether												
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane	50	0.2882012	60	0.2846933	70	0.2805484	30	0.3038395	30	0.2995113	30	0.3103738
1,2-Dichloroethane-d4	50	6.131786E-02	60	6.119294E-02	70	0.0597071	30	6.339035E-02	30	6.405888E-02	30	6.592331E-02
Toluene-d8	50	2.080724	60	1.984905	70	2.019518	30	2.171069	30	2.226519	30	2.274844
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
1,3-Dichloropropene (total)												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether												
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
1,3-Dichloropropene (total)												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether												
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1244543	14.28107	3.82725	0.8950139			15	
Acrolein	1.792986E-02	53.40119	3.67625	0.4270338	0.9990445		0.995	
Acrylonitrile	0.1282732	2.536204	4.642111	0.4498204			15	
Benzene	0.9176726	8.152253	7.707778	0.116721			15	
Bromobenzene	0.6951847	2.848266	12.46144	2.242013E-02			15	
Bromochloromethane	0.1464818	6.883919	6.799	0.2192656			15	
Tert-Amyl Methyl Ether	0.7528895	5.873801	7.896111	0.1089927			15	
Bromodichloromethane	0.330129	6.152664	8.695222	0.1011366			15	
Bromoform	0.7652819	11.40365	11.86844	2.969539E-02			SPCC (0.1)	
Bromomethane	0.1650496	15.95529	2.843111	0.4712877	0.9998357		0.995	
Bromofluorobenzene	0.8735431	7.365354	12.305	3.107365E-02			15	
n-Butylbenzene	1.025619	14.92164	13.89178	1.912957E-02			15	
2-Butanone	0.1962157	8.589126	6.272222	0.3614664			15	
sec-Butylbenzene	1.384144	10.134	13.35056	1.598984E-02			15	
tert-Butylbenzene	1.072274	11.11774	13.11689	2.878984E-02			15	
Carbon disulfide	0.8113669	9.461018	4.814	0.3730948			15	
Carbon tetrachloride	0.2952145	5.447797	7.674778	0.1495982			15	
Chlorobenzene	1.524087	4.307618	11.13956	2.226072E-02			SPCC (0.3)	
Chloroethane	0.1598038	21.51661	2.979333	0.6053679	0.9996905		0.995	
Chloroform	0.4584717	13.46594	6.772889	0.2136271			CCC (20)	
2-Chloroethyl vinyl ether	0.1949079	8.03336	9.053778	6.618116E-02			15	
Chloromethane	0.2954544	12.38932	2.261222	0.5076517			SPCC (0.1)	
1-Chlorohexane	1.363003	11.89042	11.10344	3.719483E-02			15	
2-Chlorotoluene	1.210316	12.7838	12.67956	8.98948E-03			15	
4-Chlorotoluene	1.365075	10.9514	12.74422	0.030885			15	
Cyclohexane	0.3780443	5.400411	7.605667	0.1520593			15	
Dibromochloromethane	0.69368	6.960055	10.37122	4.033945E-02			15	
1,2-Dibromo-3-chloropropane	0.1778495	5.66198	14.4965	3.015333E-02			15	
1,2-Dibromoethane (EDB)	0.7018341	6.172114	10.585	4.948073E-02			15	
Dibromomethane	0.1975423	5.960937	8.630555	8.446097E-02			15	
1,2-Dichlorobenzene	0.967664	3.456474	13.85244	1.923404E-02			15	
1,3-Dichlorobenzene	0.9973838	5.43904	13.44122	2.985968E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.030471	8.1607	13.53344	2.397469E-02			15	
Dichlorodifluoromethane	0.2499782	2.346923	2.038889	0.286493			15	
1,1-Dichloroethane	0.4740423	4.902873	5.809444	0.334428			SPCC (0.1)	
1,2-Dichloroethane	0.3479117	5.762695	7.535556	0.1710418			15	
1,1-Dichloroethene	0.2334421	10.56729	4.274889	0.5602396			CCC (20)	
cis-1,2-Dichloroethene	0.291982	10.88614	6.518444	0.2268032			15	
trans-1,2-Dichloroethene	0.2689807	15.21488	5.434556	0.3579971	0.9987237		0.995	
1,2-Dichloroethene (total)	0.2804813	12.5364	0	0			15	
1,2-Dichloropropane	0.2682235	4.692176	8.517778	0.1036952			CCC (20)	
1,3-Dichloropropane	0.9449868	6.087852	10.11033	5.556447E-02			15	
2,2-Dichloropropane	0.3255918	17.9059	6.626	0.2122837	0.9964458		0.995	
1,1-Dichloropropene	0.320132	9.566496	7.554222	0.1614125			15	
cis-1,3-Dichloropropene	0.4021505	5.528688	9.269667	6.175645E-02			15	
trans-1,3-Dichloropropene	0.855397	2.234392	9.743222	5.773969E-02			15	
1,3-Dichloropropene (total)	0.3704132	5.52061	9.743222	5.773969E-02			15	
Diisopropyl Ether	1.170403	4.796312	6.175444	0.2919304			15	
Ethylbenzene	2.457798	8.31427	11.28644	0.034209			CCC (20)	
Ethyl tert-Butyl Ether	0.8744146	4.633722	6.640111	0.2447499			15	
Ethyl Methacrylate	0.94878	7.71542	9.930556	5.396223E-02			15	
Hexachlorobutadiene	0.1327059	7.731467	15.85675	2.139758E-02			15	
2-Hexanone	0.6192198	7.628299	10.05267	6.176052E-02			15	
Iodomethane	0.4034865	7.830375	4.473111	0.5032445			15	
Isopropylbenzene	1.899263	8.223105	12.18644	1.720134E-02			15	
p-Isopropyltoluene	1.023539	10.13738	13.48744	2.251504E-02			15	
Methylene chloride	0.2776048	9.304155	4.762444	0.4486539			15	
Methyl Acetate	0.3723804	19.67395	4.626667	0.5107637	0.9999539		0.995	
Methylcyclohexane	0.2595626	12.35499	8.846555	6.617263E-02			15	
Naphthalene	1.228446	3.182494	15.72889	1.804321E-02			15	
Methyl Methacrylate	0.3434225	8.216907	8.650334	8.458415E-02			15	
4-Methyl-2-pentanone	0.3648294	7.327708	9.202111	0.0844747			15	
Methyl t-Butyl Ether	0.7191576	4.324744	5.425667	0.330039			15	
n-Propylbenzene	1.809721	12.34725	12.59622	2.961812E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1154004
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 6/1/11 9:44 6/2/11 11:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.607915	3.176596	11.761	1.905337E-02			15	
1,1,2,2-Tetrachloroethane	0.6184807	3.333349	12.11078	3.088946E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5719668	5.800895	11.18111	3.153766E-02			15	
tert-Butyl alcohol	3.681083E-02	4.251475	4.421778	0.5052918			15	
Tetrachloroethene	0.8701998	8.737997	10.48189	3.819876E-02			15	
Toluene	1.375611	6.100282	9.744222	5.955191E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5440305	3.678169	16.01711	0.0263107			15	
1,2,4-Trichlorobenzene	0.5961321	5.717414	15.57878	1.910641E-02			15	
1,1,2-Trichloroethane	0.5171309	3.475128	9.898667	3.675949E-02			15	
1,1,1-Trichloroethane	0.3603392	8.747165	7.336111	0.1430505			15	
Tetrahydrofuran	0.1176841	7.636741	6.980875	0.2257993			15	
Trichloroethene	0.2622883	11.78614	8.471667	0.1076816			15	
Trichlorofluoromethane	0.3850639	3.709107	3.483333	0.5719007			15	
1,2,3-Trichloropropane	0.2241322	6.799072	12.23556	2.044686E-02			15	
1,3,5-Trimethylbenzene	1.248678	8.363577	12.775	0.0284411			15	
1,2,4-Trimethylbenzene	1.300589	10.97993	13.14878	2.745792E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2437091	5.61128	4.355889	0.5540275			15	
Vinyl chloride	0.2117578	22.6961	2.400444	0.5586778		0.9999339	CCC (20)	*
m,p-Xylene	1.835021	12.39518	11.39711	2.659833E-02			15	
o-Xylene	1.946025	8.076146	11.79067	2.659442E-02			15	
Vinyl acetate	0.4169237	8.0234	5.879444	0.3065762			15	
Xylenes (total)	1.872022	10.70777	0	0			15	
Dibromofluoromethane	0.2955689	3.488133	6.962778	0.2358843			15	
1,2-Dichloroethane-d4	6.244071E-02	2.957918	7.460444	0.1948803			15	
Toluene-d8	2.130707	4.655061	9.681111	7.584852E-02			15	
tert-Amyl alcohol	0.0298629	4.683176	7.143111	0.2273236			15	
tert-Amyl ethyl ether	0.6963412	4.806273	8.781889	8.453099E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	10.02	2.157873E-02	25.06	2.342263E-02	50.12	0.0225668	100.2	2.588559E-02	250.6	2.424812E-02	501.2	2.617493E-02
Acrylonitrile	9.996	3.581998E-02	24.99	3.735828E-02	49.98	3.861327E-02	99.96	3.760536E-02	249.9	0.0349478	499.8	3.694345E-02
Benzene	2	1.122195	5	1.133517	10	1.13714	20	1.073858	50	1.151952	100	1.072712
Bromobenzene	2	0.8132822	5	0.775269	10	0.8079343	20	0.7890221	50	0.8233651	100	0.8266999
Bromochloromethane	2	0.1197188	5	0.1302895	10	0.1366225	20	0.1382137	50	0.141888	100	0.1399058
Tert-Amyl Methyl Ether	2	0.7414091	5	0.8188938	10	0.8370483	20	0.8196196	50	0.8237092	100	0.8244432
Bromodichloromethane	2	0.4423769	5	0.4712189	10	0.4797664	20	0.473261	50	0.4967279	100	0.4972018
Bromoform	2	0.318205	5	0.3687178	10	0.4072966	20	0.4190121	50	0.4721332	100	0.5383223
Bromomethane	2	0.1733661	5	0.1599923	10	0.1582821	20	0.1673994	50	0.1858624	100	0.170676
Bromofluorobenzene												
n-Butylbenzene	2	2.85104	5	2.854166	10	2.815883	20	2.732203	50	2.957985	100	2.896974
2-Butanone												
sec-Butylbenzene	2	3.295943	5	3.304779	10	3.340025	20	3.157962	50	3.379182	100	3.319645
tert-Butylbenzene	2	2.597737	5	2.578251	10	2.586355	20	2.473515	50	2.664789	100	2.550176
Carbon disulfide	2	0.9113128	5	0.7002117	10	1.003078	20	1.00386	50	0.7502573	100	1.02663
Carbon tetrachloride	2	0.5943167	5	0.629392	10	0.623571	20	0.608635	50	0.6692969	100	0.6481721
Chlorobenzene	2	1.545231	5	1.609055	10	1.629511	20	1.567525	50	1.742467	100	1.696979
Chloroethane	2	0.1383752	5	0.145648	10	0.1561008	20	0.1498091	50	0.1581906	100	0.1464065
Chloroform	2	0.7568882	5	0.7231528	10	0.7029868	20	0.6733167	50	0.7012218	100	0.6962922
2-Chloroethyl vinyl ether	3.99	5.180125E-02	9.975	6.141038E-02	19.95	5.726513E-02	39.9	6.825601E-02	99.75	6.248968E-02	199.5	6.060168E-02
Chloromethane	2	0.2739397	5	0.2398274	10	0.2356296	20	0.2410379	50	0.2450215	100	0.226878
1-Chlorohexane	1.997	1.846712	4.992	1.862469	9.984	1.805444	19.97	1.739053	49.92	1.882088	99.84	1.76781
2-Chlorotoluene	2	2.555698	5	2.449403	10	2.531144	20	2.370192	50	2.5733	100	2.569489
4-Chlorotoluene	2	2.803964	5	2.805037	10	2.854336	20	2.718019	50	2.912451	100	2.828635
Cyclohexane	2	0.5493458	5	0.5088102	10	0.5104582	20	0.4738289	50	0.4986832	100	0.4669618
Dibromochloromethane	2	0.5158332	5	0.5819755	10	0.6311597	20	0.6389284	50	0.7054223	100	0.7832669
1,2-Dibromo-3-chloropropane	2	8.243248E-02	5	9.550773E-02	10	9.999196E-02	20	0.1093991	50	0.1084025	100	0.1294249
1,2-Dibromoethane (EDB)	2	0.3619823	5	0.5061142	10	0.4386849	20	0.4361918	50	0.4442394	100	0.4980631
Dibromomethane	2	0.1458703	5	0.1725334	10	0.1747308	20	0.1743527	50	0.1805428	100	0.1749058
1,2-Dichlorobenzene	2	1.291313	5	1.318324	10	1.297501	20	1.252917	50	1.311831	100	1.358249

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	2	1.480588	5	1.498907	10	1.501995	20	1.414989	50	1.511141	100	1.487469
1,4-Dichlorobenzene	2	1.508485	5	1.500846	10	1.489171	20	1.407633	50	1.509243	100	1.487599
Dichlorodifluoromethane	2	0.3747169	5	0.3732885	10	0.3540827	20	0.4078023	50	0.431298	100	0.4078493
1,1-Dichloroethane	2	0.5674319	5	0.5683123	10	0.57719	20	0.5537423	50	0.5844696	100	0.5585836
1,2-Dichloroethane	2	0.4427028	5	0.4881551	10	0.4986953	20	0.4831249	50	0.4813999	100	0.4891567
1,1-Dichloroethene	2	0.1801281	5	0.1954585	10	0.1993311	20	0.1875493	50	0.2035847	100	0.1982376
cis-1,2-Dichloroethene	2	0.3075457	5	0.3207412	10	0.3182769	20	0.3111387	50	0.3205814	100	0.3088013
trans-1,2-Dichloroethene	2	0.3063236	5	0.3089728	10	0.3033148	20	0.2996498	50	0.3048735	100	0.2833611
1,2-Dichloroethene (total)	4	0.3069346	10	0.314857	20	0.3107959	40	0.3053942	100	0.3127275	200	0.2960812
1,2-Dichloropropane	2	0.2341013	5	0.2616255	10	0.2547928	20	0.2495293	50	0.2512596	100	0.2438371
1,3-Dichloropropane	2	0.7000174	5	0.7741206	10	0.8166915	20	0.8036476	50	0.8194285	100	0.9041218
2,2-Dichloropropane	2	0.6621397	5	0.6952854	10	0.6868128	20	0.6607511	50	0.7011518	100	0.6723904
1,1-Dichloropropene	2	0.5103221	5	0.5059607	10	0.517406	20	0.4887293	50	0.5190957	100	0.4861565
cis-1,3-Dichloropropene	2	0.4458394	5	0.4770146	10	0.4880149	20	0.465653	50	0.4847905	100	0.4755685
trans-1,3-Dichloropropene	2	0.7898407	5	0.8849294	10	0.9054656	20	0.8991482	50	0.9376667	100	1.026788
1,3-Dichloropropene (total)	4	0.414372	10	0.455788	20	0.4584178	40	0.4422394	100	0.4498657	200	0.4466742
Diisopropyl Ether	2	1.052214	5	1.131392	10	1.106642	20	1.075321	50	1.121682	100	1.098879
Ethylbenzene	2	3.163816	5	3.246631	10	3.254927	20	3.131774	50	3.465713	100	3.458781
Ethyl tert-Butyl Ether	2	0.9021475	5	0.9750223	10	0.9826465	20	0.9410674	50	0.9653155	100	0.9502123
Ethyl Methacrylate	2	0.5364195	5	0.5843688	10	0.6354244	20	0.6230102	50	0.6437597	100	0.7229355
Hexachlorobutadiene	2	0.7485761	5	0.8428998	10	0.8056145	20	0.8023247	50	0.8794353	100	0.8310281
2-Hexanone												
Iodomethane	2	0.2610268	5	0.3019214	10	0.3058354	20	0.3170547	50	0.3673035	100	0.3764777
Isopropylbenzene	2	2.410947	5	2.57214	10	2.533407	20	2.442491	50	2.711599	100	2.641516
p-Isopropyltoluene	2	2.834573	5	2.745935	10	2.728827	20	2.607757	50	2.834891	100	2.6919
Methylene chloride	2	0.2883597	5	0.2429828	10	0.2276153	20	0.2454828	50	0.2099084	100	0.218285
Methyl Acetate	2	0.1314096	5	0.1402709	10	0.1588799	20	0.1281368	50	0.1164985	100	0.1219377
Methylcyclohexane	2	0.5105258	5	0.53349	10	0.5194338	20	0.4947163	50	0.5201092	100	0.4879814
Naphthalene	2	0.9672014	5	1.142322	10	1.058916	20	1.077441	50	1.046693	100	1.173157
Methyl Methacrylate	2	0.194711	5	0.2261593	10	0.2276396	20	0.2308663	50	0.2208261	100	0.2290936
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether	2	0.7065811	5	0.7949224	10	0.8299873	20	0.8074681	50	0.7769109	100	0.7956113
n-Propylbenzene	2	4.10012	5	4.066374	10	4.04214	20	3.904247	50	4.183492	100	4.076624
Styrene	2	1.524729	5	1.62207	10	1.636027	20	1.557915	50	1.714563	100	1.682792
1,1,2,2-Tetrachloroethane	2	0.4653415	5	0.5326935	10	0.5584183	20	0.5550103	50	0.5374366	100	0.5960706
1,1,1,2-Tetrachloroethane	2	0.6443084	5	0.6754745	10	0.7140997	20	0.6980712	50	0.7851179	100	0.8090011
tert-Butyl alcohol	10	1.587832E-02	25	2.098027E-02	50	2.185346E-02	100	2.190501E-02	250	1.831707E-02	500	2.065938E-02
Tetrachloroethene	2	0.7783292	5	0.822542	10	0.8264491	20	0.7652662	50	0.8628083	100	0.8575038
Toluene	2	1.536492	5	1.534046	10	1.519396	20	1.444278	50	1.530223	100	1.53295
1,2,3-Trichlorobenzene	2	0.6922973	5	0.77178	10	0.7318083	20	0.7017199	50	0.7312066	100	0.7625101
1,2,4-Trichlorobenzene	2	0.8283932	5	0.922513	10	0.8491708	20	0.8201822	50	0.8600379	100	0.8793139
1,1,2-Trichloroethane	2	0.3144238	5	0.3532767	10	0.3732643	20	0.3637895	50	0.3798187	100	0.4135283
1,1,1-Trichloroethane	2	0.6641357	5	0.7003083	10	0.6849789	20	0.6666868	50	0.721365	100	0.6922347
Tetrahydrofuran	2	6.863767E-02	5	5.278876E-02	10	5.507396E-02	20	5.468364E-02	50	4.805934E-02	100	0.0526678
Trichloroethene	2	0.3500318	5	0.3619708	10	0.3550118	20	0.3428366	50	0.3579254	100	0.3447605
Trichlorofluoromethane	2	0.6796148	5	0.691164	10	0.6864896	20	0.6837762	50	0.7280514	100	0.6957406
1,2,3-Trichloropropane	2	0.1239378	5	0.1423467	10	0.1582718	20	0.1595204	50	0.1552118	100	0.1750027
1,3,5-Trimethylbenzene	2	2.640842	5	2.67115	10	2.675267	20	2.548396	50	2.744329	100	2.652419
1,2,4-Trimethylbenzene	2	2.597253	5	2.54484	10	2.531812	20	2.456585	50	2.628924	100	2.585169
1,1,2-Trichloro-1,2,2-trifluoroethan	2	0.2681554	5	0.2836812	10	0.2803303	20	0.2664689	50	0.2920441	100	0.2830102
Vinyl chloride	2	0.2068499	5	0.2029928	10	0.2222429	20	0.2169203	50	0.2296608	100	0.2131987
m,p-Xylene	4	2.540808	10	2.579959	20	2.580805	40	2.494564	100	2.715215	200	2.622366
o-Xylene	2	2.443465	5	2.628889	10	2.64608	20	2.51707	50	2.801211	100	2.829991
Vinyl acetate	4.004	0.224162	10.01	0.255325	20.02	0.2610636	40.04	0.2678181	100.1	0.2555374	200.2	0.2691851
Xylenes (total)	6	2.508361	15	2.596269	30	2.602563	60	2.502066	150	2.743881	300	2.691574
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	10	1.281508E-02	25	1.641458E-02	50	0.0185815	100	1.799019E-02	250	1.574776E-02	500	1.751073E-02
tert-Amyl ethyl ether	2	0.7307366	5	0.7918152	10	0.7947956	20	0.7499369	50	0.7738627	100	0.7610748

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone					4	~~0.1340795~~	10	0.0644782	20	7.332608E-02	40	6.409605E-02
Acrolein	751.8	2.474594E-02	1002	2.452551E-02								
Acrylonitrile	749.7	3.467484E-02	999.6	3.369566E-02								
Benzene	150	0.9834427	200	0.9500487								
Bromobenzene	150	0.7467325	200	0.7527356								
Bromochloromethane	150	0.1351693	200	0.126347								
Tert-Amyl Methyl Ether	150	0.8137087	200	0.7607141								
Bromodichloromethane	150	0.4750497	200	0.4682527								
Bromoform	150	0.5590675	200	0.5608711								
Bromomethane	150	0.1742361	200	0.1679181								
Bromofluorobenzene					35	0.8895226	40	0.8270716	50	0.7889105	60	0.8031804
n-Butylbenzene	150	2.81167	200	2.848128								
2-Butanone					4	9.899712E-02	10	0.1037876	20	8.893856E-02	40	8.981125E-02
sec-Butylbenzene	150	3.076642	200	3.139113								
tert-Butylbenzene	150	2.398915	200	2.450247								
Carbon disulfide	150	0.9660871	200	0.9421099								
Carbon tetrachloride	150	0.6402121	200	0.6251139								
Chlorobenzene	150	1.613394	200	1.634823								
Chloroethane	150	0.1463044	200	0.1461746								
Chloroform	150	0.6730832	200	0.6454575								
2-Chloroethyl vinyl ether	299.2	6.284791E-02	399	5.118401E-02								
Chloromethane	150	0.2393219	200	0.2470862								
1-Chlorohexane	149.8	1.671133	199.7	1.695951								
2-Chlorotoluene	150	2.3971	200	2.399528								
4-Chlorotoluene	150	2.710887	200	2.794724								
Cyclohexane	150	0.4426311	200	0.4342666								
Dibromochloromethane	150	0.7981602	200	0.7943706								
1,2-Dibromo-3-chloropropane	150	0.1279388	200	0.1303125								
1,2-Dibromoethane (EDB)	150	0.4903155	200	0.4769188								
Dibromomethane	150	0.1681297	200	0.1621206								
1,2-Dichlorobenzene	150	1.290188	200	1.313394								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	150	1.432289	200	1.453822								
1,4-Dichlorobenzene	150	1.435334	200	1.469631								
Dichlorodifluoromethane	150	0.4113354	200	~~0.3990925~~								
1,1-Dichloroethane	150	0.5369192	200	0.5355574								
1,2-Dichloroethane	150	0.476475	200	0.4494207								
1,1-Dichloroethene	150	0.1920102	200	0.1877781								
cis-1,2-Dichloroethene	150	0.288344	200	0.2792996								
trans-1,2-Dichloroethene	150	0.2561171	200	0.2504695								
1,2-Dichloroethene (total)	300	0.2722306	400	0.2648846								
1,2-Dichloropropane	150	0.2263548	200	0.222179								
1,3-Dichloropropane	150	0.8828903	200	0.8903512								
2,2-Dichloropropane	150	0.6644401	200	0.6298691								
1,1-Dichloropropene	150	0.46489	200	0.4475086								
cis-1,3-Dichloropropene	150	0.4481238	200	0.4327752								
trans-1,3-Dichloropropene	150	0.9957805	200	0.9713653								
1,3-Dichloropropene (total)	300	0.4191172	400	0.4021853								
Diisopropyl Ether	150	1.061137	200	1.009173								
Ethylbenzene	150	3.477847	200	3.54321								
Ethyl tert-Butyl Ether	150	0.9277552	200	0.8719846								
Ethyl Methacrylate	150	0.7066885	200	0.7034605								
Hexachlorobutadiene	150	0.8702405	200	0.9062923								
2-Hexanone					4	0.3019303	10	0.3488051	20	0.304145	40	0.3053497
Iodomethane	150	0.3871257	200	0.3826015								
Isopropylbenzene	150	2.673944	200	2.759573								
p-Isopropyltoluene	150	2.602942	200	2.652107								
Methylene chloride	150	0.2107902	200	~~0.2034838~~								
Methyl Acetate	150	0.1150995	200	0.1093252								
Methylcyclohexane	150	0.4477114	200	0.4370971								
Naphthalene	150	1.180907	200	1.238625								
Methyl Methacrylate	150	0.217944	200	0.2074199								
4-Methyl-2-pentanone					4	0.214425	10	0.2337255	20	0.2073269	40	0.2048987

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether	150	0.75976	200	0.7181037								
n-Propylbenzene	150	3.714932	200	3.820653								
Styrene	150	1.649814	200	1.650025								
1,1,2,2-Tetrachloroethane	150	0.5240346	200	0.5400348								
1,1,1,2-Tetrachloroethane	150	0.8215557	200	0.8285808								
tert-Butyl alcohol	750	1.905149E-02	1000	1.853506E-02								
Tetrachloroethene	150	0.8566594	200	0.8575407								
Toluene	150	1.420486	200	1.417559								
1,2,3-Trichlorobenzene	150	0.7776791	200	0.8296944								
1,2,4-Trichlorobenzene	150	0.8816429	200	0.9359318								
1,1,2-Trichloroethane	150	0.397474	200	0.3987034								
1,1,1-Trichloroethane	150	0.680759	200	0.6653653								
Tetrahydrofuran	150	0.0504986	200	4.759514E-02								
Trichloroethene	150	0.3253799	200	0.3155307								
Trichlorofluoromethane	150	0.6976698	200	0.6717388								
1,2,3-Trichloropropane	150	0.1760931	200	0.1779726								
1,3,5-Trimethylbenzene	150	2.494719	200	2.517698								
1,2,4-Trimethylbenzene	150	2.424853	200	2.450814								
1,1,2-Trichloro-1,2,2-trifluoroethan	150	0.2777669	200	0.2699404								
Vinyl chloride	150	0.2198715	200	0.2227947								
m,p-Xylene	300	2.65762	400	2.687985								
o-Xylene	150	2.841395	200	2.858126								
Vinyl acetate	300.3	0.2494939	400.4	0.2390816								
Xylenes (total)	450	2.718878	600	2.744698								
Dibromofluoromethane					35	0.3190864	40	0.3313126	50	0.3211277	60	0.3253814
1,2-Dichloroethane-d4					35	5.039506E-02	40	5.079254E-02	50	4.760047E-02	60	4.787891E-02
Toluene-d8					35	1.939941	40	1.993704	50	1.935593	60	1.966996
tert-Amyl alcohol	750	1.767388E-02	1000	0.0161965								
tert-Amyl ethyl ether	150	0.7288686	200	0.7049625								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	100	5.690083E-02	200	5.601088E-02	300	6.189503E-02	400	5.973102E-02	800	6.132129E-02		
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	70	0.7560029	30	0.8283844	30	0.8302052	30	0.8390977	30	0.827944		
n-Butylbenzene												
2-Butanone	100	9.185425E-02	200	8.960538E-02	300	9.675145E-02	400	9.623542E-02	800	0.0980728		
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
1,3-Dichloropropene (total)												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	100	0.3075317	200	0.3070031	300	0.3329699	400	0.3265819	800	0.3223937		
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	100	0.207691	200	0.2098517	300	0.2271612	400	0.217892	800	0.2161801		

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether												
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane	70	0.3090201	30	0.3084539	30	0.3199505	30	0.3253237	30	0.328506		
1,2-Dichloroethane-d4	70	4.741593E-02	30	4.917481E-02	30	4.991127E-02	30	5.030265E-02	30	5.207434E-02		
Toluene-d8	70	1.824954	30	1.940608	30	1.988203	30	2.020953	30	1.993282		
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.221992E-02	8.717056	3.844125	2.693171E-02			15	
Acrolein	2.414353E-02	6.504794	3.723	8.546468E-02			15	
Acrylonitrile	3.620733E-02	4.668777	4.67675	6.213348E-02			15	
Benzene	1.078108	6.955261	7.706625	2.624775E-02			15	
Bromobenzene	0.7918801	3.928449	12.42513	2.453953E-02			15	
Bromochloromethane	0.1335193	5.644128	6.80575	5.373601E-02			15	
Tert-Amyl Methyl Ether	0.8049433	4.263091	7.895	3.085736E-02			15	
Bromodichloromethane	0.4754819	3.653976	8.683875	3.757316E-02			15	
Bromoform	0.4554532	20.15759	11.83438	2.308561E-02	0.9989166		SPCC (0.1)	
Bromomethane	0.1697166	5.123461	2.8775	0.1544653			15	
Bromofluorobenzene	0.8211466	4.478452	12.26211	6.486183E-03			15	
n-Butylbenzene	2.846006	2.310644	13.85275	1.946063E-02			15	
2-Butanone	9.489487E-02	5.396499	6.275	4.427185E-02			15	
sec-Butylbenzene	3.251661	3.399862	13.3125	3.136869E-02			15	
tert-Butylbenzene	2.537498	3.491712	13.081	1.962713E-02			15	
Carbon disulfide	0.9129434	13.39705	4.83925	0.0773062			15	
Carbon tetrachloride	0.6298387	3.686507	7.6735	5.523227E-02			15	
Chlorobenzene	1.629873	3.946468	11.112	2.954225E-02			SPCC (0.3)	
Chloroethane	0.1483761	4.251297	3.011625	0.1490276			15	
Chloroform	0.6965499	4.887435	6.78125	3.610502E-02			CCC (20)	
2-Chloroethyl vinyl ether	5.948201E-02	9.7429	9.037	3.057357E-02			15	
Chloromethane	0.2435928	5.630745	2.279375	0.1534442			SPCC (0.1)	
1-Chlorohexane	1.783832	4.390885	11.07625	2.581514E-02			15	
2-Chlorotoluene	2.480732	3.454155	12.64675	3.070398E-02			15	
4-Chlorotoluene	2.803507	2.375637	12.7095	2.034068E-02			15	
Cyclohexane	0.4856232	7.921439	7.604625	5.251058E-02			15	
Dibromochloromethane	0.6811396	15.594	10.3465	2.401474E-02	0.99944		0.995	
1,2-Dibromo-3-chloropropane	0.1104262	15.99335	14.45575	2.083333E-02	0.9988287		0.995	
1,2-Dibromoethane (EDB)	0.4565637	10.32757	10.56175	2.465728E-02			15	
Dibromomethane	0.1691483	6.4181	8.62225	2.865595E-02			15	
1,2-Dichlorobenzene	1.304215	2.300371	13.81325	1.904163E-02			15	
1,3-Dichlorobenzene	1.47265	2.383327	13.40475	0.0250577			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.475993	2.489857	13.497	2.422996E-02			15	
Dichlorodifluoromethane	0.394339	6.919587	2.061714	0.2095272	0.9995543		0.995	
1,1-Dichloroethane	0.5602758	3.156482	5.825	5.408228E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4761413	4.148385	7.535625	5.324188E-02			15	
1,1-Dichloroethene	0.1930097	3.961498	4.311125	0.1009015			CCC (20)	
cis-1,2-Dichloroethene	0.3068411	4.982701	6.5265	3.536651E-02			15	
trans-1,2-Dichloroethene	0.2891353	8.128843	5.452125	4.423305E-02			15	
1,2-Dichloroethene (total)	0.2979882	6.42218	0	0			15	
1,2-Dichloropropane	0.2429599	5.794273	8.506625	3.299547E-02			CCC (20)	
1,3-Dichloropropane	0.8239086	8.287714	10.0905	2.404467E-02			15	
2,2-Dichloropropane	0.6716051	3.407623	6.633625	3.212224E-02			15	
1,1-Dichloropropene	0.4925086	5.242974	7.551625	3.301211E-02			15	
cis-1,3-Dichloropropene	0.4647225	4.355266	9.253625	0.0285598			15	
trans-1,3-Dichloropropene	0.9263731	8.014916	9.723625	2.842464E-02			15	
1,3-Dichloropropene (total)	0.4360824	4.853252	9.723625	2.842464E-02			15	
Diisopropyl Ether	1.082055	3.75842	6.19425	6.081834E-02			15	
Ethylbenzene	3.342837	4.803669	11.25712	3.503311E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.9395189	4.022676	6.65575	4.612714E-02			15	
Ethyl Methacrylate	0.6445084	10.04467	9.910875	3.048495E-02			15	
Hexachlorobutadiene	0.8358014	6.028651	15.812	1.764755E-02			15	
2-Hexanone	0.3174123	5.108783	10.02611	2.616641E-02			15	
Iodomethane	0.3374183	13.91846	4.505625	6.906877E-02			15	
Isopropylbenzene	2.593202	4.845038	12.15312	3.519189E-02			15	
p-Isopropyltoluene	2.712367	3.364961	13.449	2.427457E-02			15	
Methylene chloride	0.2347749	11.75541	4.790143	8.605331E-02			15	
Methyl Acetate	0.1276948	12.5552	4.664375	5.258948E-02			15	
Methylcyclohexane	0.4938831	7.088094	8.832625	4.015806E-02			15	
Naphthalene	1.110658	7.957	15.684	1.801666E-02			15	
Methyl Methacrylate	0.2193325	5.705508	8.639375	4.482521E-02			15	
4-Methyl-2-pentanone	0.2154613	4.486482	9.180333	1.488921E-02			15	
Methyl t-Butyl Ether	0.7736681	5.578632	5.455625	6.889424E-02			15	
n-Propylbenzene	3.988573	3.990105	12.563	2.169522E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1178001
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 6/25/11 8:12 6/25/11 16:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.629742	3.818415	11.72975	0.0358314			15	
1,1,2,2-Tetrachloroethane	0.53863	6.868984	12.07938	1.840922E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.7470262	9.686034	11.15375	0.0184285			15	
tert-Butyl alcohol	1.964751E-02	10.59488	4.476125	7.299695E-02			15	
Tetrachloroethene	0.8283873	4.610257	10.456	2.489177E-02			15	
Toluene	1.491929	3.633336	9.727375	2.682096E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.749837	5.983853	15.9695	1.675197E-02			15	
1,2,4-Trichlorobenzene	0.8721482	4.754453	15.53263	2.306395E-02			15	
1,1,2-Trichloroethane	0.3742848	8.352077	9.877625	3.717175E-02			15	
1,1,1-Trichloroethane	0.6844792	2.912071	7.335	3.906065E-02			15	
Tetrahydrofuran	5.375061E-02	12.32476	6.994125	5.496143E-02			15	
Trichloroethene	0.3441809	4.702094	8.458625	4.550731E-02			15	
Trichlorofluoromethane	0.6917806	2.448311	3.518625	0.1301035			15	
1,2,3-Trichloropropane	0.1585446	11.7479	12.20487	2.611386E-02			15	
1,3,5-Trimethylbenzene	2.618103	3.350804	12.74013	2.525868E-02			15	
1,2,4-Trimethylbenzene	2.527531	2.999881	13.113	1.630928E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2776747	3.20414	4.38875	5.237967E-02			15	
Vinyl chloride	0.2168165	4.062264	2.428375	0.1323058			CCC (20)	
m,p-Xylene	2.609915	2.87605	11.37175	2.914828E-02			15	
o-Xylene	2.695778	5.935775	11.75925	3.540948E-02			15	
Vinyl acetate	0.2527083	5.973946	5.8975	4.292919E-02			15	
Xylenes (total)	2.638536	3.7977	0	0			15	
Dibromofluoromethane	0.3209069	2.478799	6.949778	7.366163E-02			15	
1,2-Dichloroethane-d4	4.950511E-02	3.241237	7.446222	3.101064E-02			15	
Toluene-d8	1.956026	2.929766	9.652	2.495899E-02			15	
tert-Amyl alcohol	1.661628E-02	10.92991	7.15775	4.219009E-02			15	
tert-Amyl ethyl ether	0.7545066	4.230165	8.772375	3.373482E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0601ICV2.D	Calibration Date:	06/01/11 09:44
Sequence:	1F15404	Injection Date:	06/01/11
Lab Sample ID:	1F15404-ICV2	Injection Time:	16:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	97.70	0.9176726	0.8965907		-2.3	20
Ethylbenzene	A	100.0	97.22	2.457798	2.389417		-2.8	20
Methyl t-Butyl Ether	A	100.0	94.09	0.7191576	0.676666		-5.9	20
Toluene	A	100.0	96.58	1.375611	1.328506		-3.4	20
Xylenes (total)	A	300.0	277.6	1.872022	1.73376		-7.4	20
Bromofluorobenzene	A	30.00	33.84	0.8735431	0.9854771		12.8	20
Dibromofluoromethane	A	30.00	31.71	0.2955689	0.3124241		5.7	20
1,2-Dichloroethane-d4	A	30.00	31.24	6.244071E-02	0.065017		4.1	20
Toluene-d8	A	30.00	34.16	2.130707	2.425819		13.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1178001
Lab File ID:	SEQICV2.D	Calibration Date:	06/25/11 08:12
Sequence:	1F17801	Injection Date:	06/25/11
Lab Sample ID:	1F17801-ICV2	Injection Time:	12:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Benzene	A	100.0	99.21	1.078108	1.069613		-0.8	20	
Ethylbenzene	A	100.0	108.7	3.342837	3.632741		8.7	20	
Methyl t-Butyl Ether	A	100.0	90.95	0.7736681	0.7036138		-9.1	20	
Toluene	A	100.0	103.6	1.491929	1.546169		3.6	20	
Xylenes (total)	A	300.0	313.3	2.638536	2.756504		4.5	20	
Bromofluorobenzene	A	30.00	36.19	0.8211466	0.9904922		20.6	20	*
Dibromofluoromethane	A	30.00	28.68	0.3209069	0.3068072		-4.4	20	
1,2-Dichloroethane-d4	A	30.00	29.29	4.950511E-02	4.832934E-02		-2.4	20	
Toluene-d8	A	30.00	35.69	1.956026	2.327314		19.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0707CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1G18901	Injection Date:	07/07/11
Lab Sample ID:	1G18901-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Benzene	A	100.0	93.33	0.9176726	0.8564997		-6.7	20	
Ethylbenzene	A	100.0	106.3	2.457798	2.612391		6.3	20	
Methyl t-Butyl Ether	A	100.0	81.80	0.7191576	0.5882768		-18.2	20	
Toluene	A	100.0	100.9	1.375611	1.387757		0.9	20	
Xylenes (total)	A	300.0	290.8	1.872022	1.815874		-3.0	20	
Bromofluorobenzene	A	30.00	36.26	0.8735431	1.055965		20.9	20	*
Dibromofluoromethane	A	30.00	31.71	0.2955689	0.3124254		5.7	20	
1,2-Dichloroethane-d4	A	30.00	30.65	6.244071E-02	0.0638009		2.2	20	
Toluene-d8	A	30.00	36.72	2.130707	2.608022		22.4	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-VOA6	Calibration:	1178001
Lab File ID:	0710CCV1.D	Calibration Date:	06/25/11 08:12
Sequence:	1G19202	Injection Date:	07/10/11
Lab Sample ID:	1G19202-CCV1	Injection Time:	08:06

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	100.0	103.2	1.078108	1.112241		3.2	20
Ethylbenzene	A	100.0	104.0	3.342837	3.475625		4.0	20
Methyl t-Butyl Ether	A	100.0	89.54	0.7736681	0.6927073		-10.5	20
Toluene	A	100.0	99.40	1.491929	1.482991		-0.6	20
Xylenes (total)	A	300.0	292.0	2.638536	2.569307		-2.6	20
Bromofluorobenzene	A	30.00	34.40	0.8211466	0.9415862		14.7	20
Dibromofluoromethane	A	30.00	29.35	0.3209069	0.3139907		-2.2	20
1,2-Dichloroethane-d4	A	30.00	31.34	4.950511E-02	5.172026E-02		4.5	20
Toluene-d8	A	30.00	34.80	1.956026	2.268945		16.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G07009-BLK1 File ID: 0707BLK1.D

Sampled: Prepared: Analyzed: 07/07/11 10:14

Solids: Preparation: 5030B Dilution:

Batch: 1G07009 Sequence: 1G18901 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.07	110	75 - 120	X
Dibromofluoromethane	30.00	31.03	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.23	101	70 - 120	
Toluene-d8	30.00	33.39	111	85 - 120	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G07009-BS1 File ID: 0707LCS1.D

Sampled: Prepared: Analyzed: 07/07/11 08:57

Solids: Preparation: 5030B Dilution:

Batch: 1G07009 Sequence: 1G18901 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	54.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	57.2	0.250	0.500	1.00	
1634-04-4	Methyl t-Butyl Ether	43.0	0.250	0.500	1.00	
108-88-3	Toluene	56.3	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	163	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.98	120	75 - 120	X
Dibromofluoromethane	30.00	31.70	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.23	104	70 - 120	
Toluene-d8	30.00	35.90	120	85 - 120	X

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G10001-BLK1 File ID: 0710BL1.D

Sampled: Prepared: Analyzed: 07/10/11 10:04

Solids: Preparation: 5035 Dilution:

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		0.00125	0.00250	0.00500	U
100-41-4	Ethylbenzene		0.00125	0.00250	0.00500	U
1634-04-4	Methyl t-Butyl Ether		0.00125	0.00250	0.00500	U
108-88-3	Toluene		0.00125	0.00250	0.00500	U
1330-20-7	Xylenes (total)		0.00375	0.00750	0.0150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03000	0.03063	102	85 - 120	
Dibromofluoromethane	0.03000	0.02789	93.0	80 - 125	
1,2-Dichloroethane-d4	0.03000	0.03137	105	75 - 140	
Toluene-d8	0.03000	0.03196	107	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G10001-BLK2 File ID: 0710BL2.D

Sampled: Prepared: Analyzed: 07/10/11 10:31

Solids: Preparation: 5035 Dilution:

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene		0.0625	0.125	0.250	U
100-41-4	Ethylbenzene		0.0625	0.125	0.250	U
1634-04-4	Methyl t-Butyl Ether		0.0625	0.125	0.250	U
108-88-3	Toluene		0.0625	0.125	0.250	U
1330-20-7	Xylenes (total)		0.188	0.375	0.750	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03000	0.03023	101	85 - 120	
Dibromofluoromethane	0.03000	0.02801	93.4	80 - 125	
1,2-Dichloroethane-d4	0.03000	0.02809	93.6	75 - 140	
Toluene-d8	0.03000	0.03233	108	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G10001-BS1 File ID: 0710LS1.D

Sampled: Prepared: Analyzed: 07/10/11 08:43

Solids: Preparation: 5035 Dilution:

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	0.05367	0.00125	0.00250	0.00500	
100-41-4	Ethylbenzene	0.04934	0.00125	0.00250	0.00500	
1634-04-4	Methyl t-Butyl Ether	0.03985	0.00125	0.00250	0.00500	
108-88-3	Toluene	0.05188	0.00125	0.00250	0.00500	
1330-20-7	Xylenes (total)	0.1454	0.00375	0.00750	0.0150	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03000	0.03265	109	85 - 120	
Dibromofluoromethane	0.03000	0.02924	97.5	80 - 125	
1,2-Dichloroethane-d4	0.03000	0.03058	102	75 - 140	
Toluene-d8	0.03000	0.03335	111	85 - 115	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G10001-BSD1 File ID: 0710LCD1.D

Sampled: Prepared: Analyzed: 07/10/11 19:34

Solids: Preparation: 5035 Dilution:

Batch: 1G10001 Sequence: 1G19202 Calibration: 1178001 Instrument: MS-VOA6

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
71-43-2	Benzene	0.05396	0.00125	0.00250	0.00500	
100-41-4	Ethylbenzene	0.04927	0.00125	0.00250	0.00500	
1634-04-4	Methyl t-Butyl Ether	0.04026	0.00125	0.00250	0.00500	
108-88-3	Toluene	0.05324	0.00125	0.00250	0.00500	
1330-20-7	Xylenes (total)	0.1458	0.00375	0.00750	0.0150	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.03000	0.03228	108	85 - 120	
Dibromofluoromethane	0.03000	0.02951	98.4	80 - 125	
1,2-Dichloroethane-d4	0.03000	0.03001	100	75 - 140	
Toluene-d8	0.03000	0.03276	109	85 - 115	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS18-20110701-4	07/01/11 10:00	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 10:58	9.08	14.00	
MPT-1343-SS18-20110701-4.5	07/01/11 10:20	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 11:25	9.09	14.00	
MPT-1343-SS18-20110701-2	07/01/11 10:45	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 11:52	9.09	14.00	
MPT-1343-SS19-20110701-2	07/01/11 11:05	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 12:20	9.09	14.00	
MPT-1343-SS19-20110701-4	07/01/11 11:15	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 12:47	9.11	14.00	
MPT-1343-SS19-20110701-4.5	07/01/11 11:30	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 13:14	9.11	14.00	
MPT-1343-SS20-20110701-2.0	07/01/11 11:45	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 13:41	9.12	14.00	
MPT-1343-SS20-20110701-4.0	07/01/11 12:10	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 14:35	9.14	14.00	
MPT-1343-SS20-20110701-4.5	07/01/11 12:20	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 15:30	9.17	14.00	
MPT-1343-SS21-20110701-2	07/01/11 12:45	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 16:24	9.19	14.00	
MPT-1343-SS21-20110701-4	07/01/11 13:10	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 17:18	9.21	14.00	
MPT-1343-SS21-20110701-4.5	07/01/11 13:30	07/02/11 09:00	07/10/11 00:00	N/A	14.00	07/10/11 18:12	9.24	14.00	
Trip Blank	07/01/11 00:00	07/02/11 09:00	07/07/11 00:00	N/A	14.00	07/07/11 11:06	6.50	14.00	

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

MPT-1343-SS12-20110701-02

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-01 File ID: 0702101.D

Sampled: 07/01/11 09:15 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 02:52

Solids: 92.09 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
56-55-3	Benzo(a)anthracene	0.00414	0.00178	0.00355	0.0142	IV
50-32-8	Benzo(a)pyrene		0.00178	0.00355	0.0142	U
205-99-2	Benzo(b)fluoranthene	0.00711	0.00178	0.00355	0.0142	IV
207-08-9	Benzo(k)fluoranthene		0.00178	0.00355	0.0142	U
218-01-9	Chrysene	0.00354	0.00178	0.00355	0.0142	IV
53-70-3	Dibenz(a,h)anthracene		0.00178	0.00355	0.0142	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00178	0.00355	0.0142	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.549	3.401	95.8	14 - 129	X
Terphenyl-d14	3.549	3.203	90.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS13-20110701-02

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-02 File ID: 0702102.D

Sampled: 07/01/11 09:30 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 03:21

Solids: 83.37 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
56-55-3	Benzo(a)anthracene	0.00643	0.00196	0.00392	0.0156	IV
50-32-8	Benzo(a)pyrene	0.00914	0.00196	0.00392	0.0156	IV
205-99-2	Benzo(b)fluoranthene	0.0113	0.00196	0.00392	0.0156	IV
207-08-9	Benzo(k)fluoranthene	0.00656	0.00196	0.00392	0.0156	IV
218-01-9	Chrysene	0.00868	0.00196	0.00392	0.0156	IV
53-70-3	Dibenz(a,h)anthracene		0.00196	0.00392	0.0156	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00196	0.00392	0.0156	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.920	3.609	92.1	14 - 129	X
Terphenyl-d14	3.920	3.283	83.7	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS14-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-03 File ID: 0702103D.D

Sampled: 07/01/11 09:33 Prepared: 07/12/11 11:00 Analyzed: 07/26/11 09:38

Solids: 76.91 Preparation: EXT_3546 Dilution: 10

Batch: 1G08020 Sequence: 1G20711 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
56-55-3	Benzo(a)anthracene		0.0210	0.0419	0.167	U
50-32-8	Benzo(a)pyrene		0.0210	0.0419	0.167	U
205-99-2	Benzo(b)fluoranthene		0.0210	0.0419	0.167	U
207-08-9	Benzo(k)fluoranthene		0.0210	0.0419	0.167	U
218-01-9	Chrysene		0.0210	0.0419	0.167	U
53-70-3	Dibenz(a,h)anthracene		0.0210	0.0419	0.167	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0210	0.0419	0.167	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.194	2.056	49.0	14 - 129	
Terphenyl-d14	4.194	2.111	50.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS15-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-04 File ID: 0702104.D

Sampled: 07/01/11 09:35 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 03:50

Solids: 90.78 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
56-55-3	Benzo(a)anthracene	0.00593	0.00178	0.00355	0.0142	IV
50-32-8	Benzo(a)pyrene	0.00743	0.00178	0.00355	0.0142	IV
205-99-2	Benzo(b)fluoranthene	0.0117	0.00178	0.00355	0.0142	IV
207-08-9	Benzo(k)fluoranthene	0.00549	0.00178	0.00355	0.0142	IV
218-01-9	Chrysene	0.00720	0.00178	0.00355	0.0142	IV
53-70-3	Dibenz(a,h)anthracene		0.00178	0.00355	0.0142	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00178	0.00355	0.0142	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.553	2.239	63.0	14 - 129	X
Terphenyl-d14	3.553	2.151	60.5	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS16-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-05 File ID: 0702105D.D

Sampled: 07/01/11 09:40 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 08:33

Solids: 85.68 Preparation: EXT_3546 Dilution: 10

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
56-55-3	Benzo(a)anthracene	0.0245	0.0189	0.0376	0.150	, D IV
50-32-8	Benzo(a)pyrene		0.0189	0.0376	0.150	U
205-99-2	Benzo(b)fluoranthene		0.0189	0.0376	0.150	U
207-08-9	Benzo(k)fluoranthene		0.0189	0.0376	0.150	U
218-01-9	Chrysene	0.0348	0.0189	0.0376	0.150	, D IV
53-70-3	Dibenz(a,h)anthracene		0.0189	0.0376	0.150	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0189	0.0376	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.765	2.968	78.8	14 - 129	X
Terphenyl-d14	3.765	2.933	77.9	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS17-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-06 File ID: 0702106.D

Sampled: 07/01/11 09:45 Prepared: 07/12/11 11:00 Analyzed: 07/26/11 10:36

Solids: 91.20 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20711 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
56-55-3	Benzo(a)anthracene		0.00173	0.00344	0.0138	U
50-32-8	Benzo(a)pyrene		0.00173	0.00344	0.0138	U
205-99-2	Benzo(b)fluoranthene		0.00173	0.00344	0.0138	U
207-08-9	Benzo(k)fluoranthene		0.00173	0.00344	0.0138	U
218-01-9	Chrysene		0.00173	0.00344	0.0138	U
53-70-3	Dibenz(a,h)anthracene		0.00173	0.00344	0.0138	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00173	0.00344	0.0138	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.448	2.819	81.7	14 - 129	
Terphenyl-d14	3.448	2.434	70.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-4

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-07 File ID: 0702107.D

Sampled: 07/01/11 10:00 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 04:18

Solids: 84.97 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00189	0.00377	0.0151	U
208-96-8	Acenaphthylene		0.00189	0.00377	0.0151	U
120-12-7	Anthracene		0.00189	0.00377	0.0151	U
56-55-3	Benzo(a)anthracene	0.00350	0.00189	0.00377	0.0151	IV
50-32-8	Benzo(a)pyrene		0.00189	0.00377	0.0151	U
205-99-2	Benzo(b)fluoranthene		0.00189	0.00377	0.0151	U
191-24-2	Benzo(g,h,i)perylene		0.00189	0.00377	0.0151	U
207-08-9	Benzo(k)fluoranthene		0.00189	0.00377	0.0151	U
218-01-9	Chrysene	0.00413	0.00189	0.00377	0.0151	IV
53-70-3	Dibenz(a,h)anthracene		0.00189	0.00377	0.0151	U
206-44-0	Fluoranthene	0.00817	0.00189	0.00377	0.0151	IV
86-73-7	Fluorene		0.00189	0.00377	0.0151	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00189	0.00377	0.0151	U
90-12-0	1-Methylnaphthalene		0.00189	0.00377	0.0151	U
91-57-6	2-Methylnaphthalene		0.00189	0.00377	0.0151	U
91-20-3	Naphthalene		0.00189	0.00377	0.0151	U
85-01-8	Phenanthrene	0.00860	0.00189	0.00377	0.0151	IV
129-00-0	Pyrene	0.00657	0.00189	0.00377	0.0151	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.772	3.219	85.3	14 - 129	X
Terphenyl-d14	3.772	3.319	88.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-08 File ID: 0702108.D

Sampled: 07/01/11 10:20 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 04:46

Solids: 65.93 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.00255	0.00250	0.00498	0.0199	I
208-96-8	Acenaphthylene		0.00250	0.00498	0.0199	U
120-12-7	Anthracene		0.00250	0.00498	0.0199	U
56-55-3	Benzo(a)anthracene		0.00250	0.00498	0.0199	U
50-32-8	Benzo(a)pyrene		0.00250	0.00498	0.0199	U
205-99-2	Benzo(b)fluoranthene	0.00485	0.00250	0.00498	0.0199	IV
191-24-2	Benzo(g,h,i)perylene		0.00250	0.00498	0.0199	U
207-08-9	Benzo(k)fluoranthene		0.00250	0.00498	0.0199	U
218-01-9	Chrysene		0.00250	0.00498	0.0199	U
53-70-3	Dibenz(a,h)anthracene		0.00250	0.00498	0.0199	U
206-44-0	Fluoranthene	0.00546	0.00250	0.00498	0.0199	IV
86-73-7	Fluorene		0.00250	0.00498	0.0199	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00250	0.00498	0.0199	U
90-12-0	1-Methylnaphthalene		0.00250	0.00498	0.0199	U
91-57-6	2-Methylnaphthalene		0.00250	0.00498	0.0199	U
91-20-3	Naphthalene		0.00250	0.00498	0.0199	U
85-01-8	Phenanthrene	0.00918	0.00250	0.00498	0.0199	IV
129-00-0	Pyrene	0.00403	0.00250	0.00498	0.0199	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.989	3.840	77.0	14 - 129	X
Terphenyl-d14	4.989	3.355	67.2	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-09 File ID: 0702109D.D

Sampled: 07/01/11 10:35 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 09:01

Solids: 84.94 Preparation: EXT_3546 Dilution: 10

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0190	0.0379	0.152	U
208-96-8	Acenaphthylene		0.0190	0.0379	0.152	U
120-12-7	Anthracene		0.0190	0.0379	0.152	U
56-55-3	Benzo(a)anthracene		0.0190	0.0379	0.152	U
50-32-8	Benzo(a)pyrene		0.0190	0.0379	0.152	U
205-99-2	Benzo(b)fluoranthene		0.0190	0.0379	0.152	U
191-24-2	Benzo(g,h,i)perylene		0.0190	0.0379	0.152	U
207-08-9	Benzo(k)fluoranthene		0.0190	0.0379	0.152	U
218-01-9	Chrysene		0.0190	0.0379	0.152	U
53-70-3	Dibenz(a,h)anthracene		0.0190	0.0379	0.152	U
206-44-0	Fluoranthene	0.0218	0.0190	0.0379	0.152	, D IV
86-73-7	Fluorene		0.0190	0.0379	0.152	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0190	0.0379	0.152	U
90-12-0	1-Methylnaphthalene		0.0190	0.0379	0.152	U
91-57-6	2-Methylnaphthalene		0.0190	0.0379	0.152	U
91-20-3	Naphthalene		0.0190	0.0379	0.152	U
85-01-8	Phenanthrene		0.0190	0.0379	0.152	U
129-00-0	Pyrene		0.0190	0.0379	0.152	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.798	3.016	79.4	14 - 129	X
Terphenyl-d14	3.798	2.857	75.2	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS18-20110701-2

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-10 File ID: 0702110.D

Sampled: 07/01/11 10:45 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 05:14

Solids: 81.55 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00199	0.00398	0.0159	U
208-96-8	Acenaphthylene		0.00199	0.00398	0.0159	U
120-12-7	Anthracene		0.00199	0.00398	0.0159	U
56-55-3	Benzo(a)anthracene	0.00424	0.00199	0.00398	0.0159	IV
50-32-8	Benzo(a)pyrene		0.00199	0.00398	0.0159	U
205-99-2	Benzo(b)fluoranthene	0.00708	0.00199	0.00398	0.0159	IV
191-24-2	Benzo(g,h,i)perylene		0.00199	0.00398	0.0159	U
207-08-9	Benzo(k)fluoranthene	0.00464	0.00199	0.00398	0.0159	IV
218-01-9	Chrysene	0.00464	0.00199	0.00398	0.0159	IV
53-70-3	Dibenz(a,h)anthracene		0.00199	0.00398	0.0159	U
206-44-0	Fluoranthene	0.00901	0.00199	0.00398	0.0159	IV
86-73-7	Fluorene		0.00199	0.00398	0.0159	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.00818	0.00199	0.00398	0.0159	I
90-12-0	1-Methylnaphthalene	0.0146	0.00199	0.00398	0.0159	I
91-57-6	2-Methylnaphthalene	0.0220	0.00199	0.00398	0.0159	
91-20-3	Naphthalene	0.0243	0.00199	0.00398	0.0159	
85-01-8	Phenanthrene	0.0125	0.00199	0.00398	0.0159	IV
129-00-0	Pyrene	0.00802	0.00199	0.00398	0.0159	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.981	3.443	86.5	14 - 129	X
Terphenyl-d14	3.981	3.178	79.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-11 File ID: 0702111.D

Sampled: 07/01/11 11:00 Prepared: 07/12/11 11:00 Analyzed: 07/26/11 11:05

Solids: 84.38 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20711 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.00248	0.00195	0.00389	0.0156	I
208-96-8	Acenaphthylene		0.00195	0.00389	0.0156	U
120-12-7	Anthracene		0.00195	0.00389	0.0156	U
56-55-3	Benzo(a)anthracene		0.00195	0.00389	0.0156	U
50-32-8	Benzo(a)pyrene	0.00743	0.00195	0.00389	0.0156	IV
205-99-2	Benzo(b)fluoranthene	0.0124	0.00195	0.00389	0.0156	IV
191-24-2	Benzo(g,h,i)perylene		0.00195	0.00389	0.0156	U
207-08-9	Benzo(k)fluoranthene		0.00195	0.00389	0.0156	U
218-01-9	Chrysene	0.00683	0.00195	0.00389	0.0156	IV
53-70-3	Dibenz(a,h)anthracene		0.00195	0.00389	0.0156	U
206-44-0	Fluoranthene	0.0136	0.00195	0.00389	0.0156	IV
86-73-7	Fluorene		0.00195	0.00389	0.0156	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0119	0.00195	0.00389	0.0156	I
90-12-0	1-Methylnaphthalene	0.00504	0.00195	0.00389	0.0156	I
91-57-6	2-Methylnaphthalene	0.00538	0.00195	0.00389	0.0156	I
91-20-3	Naphthalene	0.00624	0.00195	0.00389	0.0156	I
85-01-8	Phenanthrene	0.0146	0.00195	0.00389	0.0156	IV
129-00-0	Pyrene	0.0110	0.00195	0.00389	0.0156	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.898	3.666	94.0	14 - 129	
Terphenyl-d14	3.898	3.096	79.4	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-2

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-12 File ID: 0702112.D

Sampled: 07/01/11 11:05 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 05:43

Solids: 89.23 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00178	0.00354	0.0142	U
208-96-8	Acenaphthylene		0.00178	0.00354	0.0142	U
120-12-7	Anthracene		0.00178	0.00354	0.0142	U
56-55-3	Benzo(a)anthracene		0.00178	0.00354	0.0142	U
50-32-8	Benzo(a)pyrene		0.00178	0.00354	0.0142	U
205-99-2	Benzo(b)fluoranthene		0.00178	0.00354	0.0142	U
191-24-2	Benzo(g,h,i)perylene		0.00178	0.00354	0.0142	U
207-08-9	Benzo(k)fluoranthene		0.00178	0.00354	0.0142	U
218-01-9	Chrysene		0.00178	0.00354	0.0142	U
53-70-3	Dibenz(a,h)anthracene		0.00178	0.00354	0.0142	U
206-44-0	Fluoranthene	0.00535	0.00178	0.00354	0.0142	IV
86-73-7	Fluorene		0.00178	0.00354	0.0142	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00178	0.00354	0.0142	U
90-12-0	1-Methylnaphthalene		0.00178	0.00354	0.0142	U
91-57-6	2-Methylnaphthalene		0.00178	0.00354	0.0142	U
91-20-3	Naphthalene		0.00178	0.00354	0.0142	U
85-01-8	Phenanthrene	0.00682	0.00178	0.00354	0.0142	IV
129-00-0	Pyrene	0.00460	0.00178	0.00354	0.0142	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.546	3.149	88.8	14 - 129	X
Terphenyl-d14	3.546	3.106	87.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-4

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-13 File ID: 0702113.D

Sampled: 07/01/11 11:15 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 06:11

Solids: 83.39 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.00227	0.00191	0.00382	0.0152	I
208-96-8	Acenaphthylene		0.00191	0.00382	0.0152	U
120-12-7	Anthracene		0.00191	0.00382	0.0152	U
56-55-3	Benzo(a)anthracene		0.00191	0.00382	0.0152	U
50-32-8	Benzo(a)pyrene	0.00549	0.00191	0.00382	0.0152	IV
205-99-2	Benzo(b)fluoranthene		0.00191	0.00382	0.0152	U
191-24-2	Benzo(g,h,i)perylene		0.00191	0.00382	0.0152	U
207-08-9	Benzo(k)fluoranthene		0.00191	0.00382	0.0152	U
218-01-9	Chrysene		0.00191	0.00382	0.0152	U
53-70-3	Dibenz(a,h)anthracene		0.00191	0.00382	0.0152	U
206-44-0	Fluoranthene	0.00487	0.00191	0.00382	0.0152	IV
86-73-7	Fluorene		0.00191	0.00382	0.0152	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00191	0.00382	0.0152	U
90-12-0	1-Methylnaphthalene		0.00191	0.00382	0.0152	U
91-57-6	2-Methylnaphthalene		0.00191	0.00382	0.0152	U
91-20-3	Naphthalene		0.00191	0.00382	0.0152	U
85-01-8	Phenanthrene	0.00689	0.00191	0.00382	0.0152	IV
129-00-0	Pyrene	0.00519	0.00191	0.00382	0.0152	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.819	3.558	93.2	14 - 129	X
Terphenyl-d14	3.819	3.314	86.8	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS19-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-14 File ID: 0702114.D

Sampled: 07/01/11 11:30 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 06:39

Solids: 86.09 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.00196	0.00183	0.00365	0.0146	I
208-96-8	Acenaphthylene		0.00183	0.00365	0.0146	U
120-12-7	Anthracene		0.00183	0.00365	0.0146	U
56-55-3	Benzo(a)anthracene	0.00234	0.00183	0.00365	0.0146	IV
50-32-8	Benzo(a)pyrene		0.00183	0.00365	0.0146	U
205-99-2	Benzo(b)fluoranthene		0.00183	0.00365	0.0146	U
191-24-2	Benzo(g,h,i)perylene		0.00183	0.00365	0.0146	U
207-08-9	Benzo(k)fluoranthene		0.00183	0.00365	0.0146	U
218-01-9	Chrysene	0.00348	0.00183	0.00365	0.0146	IV
53-70-3	Dibenz(a,h)anthracene		0.00183	0.00365	0.0146	U
206-44-0	Fluoranthene	0.00586	0.00183	0.00365	0.0146	IV
86-73-7	Fluorene	0.00203	0.00183	0.00365	0.0146	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.00549	0.00183	0.00365	0.0146	I
90-12-0	1-Methylnaphthalene		0.00183	0.00365	0.0146	U
91-57-6	2-Methylnaphthalene		0.00183	0.00365	0.0146	U
91-20-3	Naphthalene		0.00183	0.00365	0.0146	U
85-01-8	Phenanthrene	0.00699	0.00183	0.00365	0.0146	IV
129-00-0	Pyrene	0.00493	0.00183	0.00365	0.0146	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.653	3.205	87.8	14 - 129	X
Terphenyl-d14	3.653	3.108	85.1	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-15 File ID: 0702115D.D

Sampled: 07/01/11 11:40 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 09:30

Solids: 83.75 Preparation: EXT_3546 Dilution: 5

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00977	0.0195	0.0778	U
208-96-8	Acenaphthylene		0.00977	0.0195	0.0778	U
120-12-7	Anthracene		0.00977	0.0195	0.0778	U
56-55-3	Benzo(a)anthracene		0.00977	0.0195	0.0778	U
50-32-8	Benzo(a)pyrene		0.00977	0.0195	0.0778	U
205-99-2	Benzo(b)fluoranthene		0.00977	0.0195	0.0778	U
191-24-2	Benzo(g,h,i)perylene		0.00977	0.0195	0.0778	U
207-08-9	Benzo(k)fluoranthene		0.00977	0.0195	0.0778	U
218-01-9	Chrysene		0.00977	0.0195	0.0778	U
53-70-3	Dibenz(a,h)anthracene		0.00977	0.0195	0.0778	U
206-44-0	Fluoranthene	0.0143	0.00977	0.0195	0.0778	, D IV
86-73-7	Fluorene		0.00977	0.0195	0.0778	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00977	0.0195	0.0778	U
90-12-0	1-Methylnaphthalene	0.0144	0.00977	0.0195	0.0778	, D I
91-57-6	2-Methylnaphthalene	0.0119	0.00977	0.0195	0.0778	, D I
91-20-3	Naphthalene	0.0100	0.00977	0.0195	0.0778	, D I
85-01-8	Phenanthrene	0.0448	0.00977	0.0195	0.0778	, D IV
129-00-0	Pyrene	0.0170	0.00977	0.0195	0.0778	, D IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.902	3.445	88.3	14 - 129	X
Terphenyl-d14	3.902	3.103	79.5	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-2.0

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-16 File ID: 0702116.D

Sampled: 07/01/11 11:45 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 07:08

Solids: 80.88 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.00259	0.00204	0.00406	0.0162	I
208-96-8	Acenaphthylene		0.00204	0.00406	0.0162	U
120-12-7	Anthracene		0.00204	0.00406	0.0162	U
56-55-3	Benzo(a)anthracene		0.00204	0.00406	0.0162	U
50-32-8	Benzo(a)pyrene		0.00204	0.00406	0.0162	U
205-99-2	Benzo(b)fluoranthene		0.00204	0.00406	0.0162	U
191-24-2	Benzo(g,h,i)perylene		0.00204	0.00406	0.0162	U
207-08-9	Benzo(k)fluoranthene		0.00204	0.00406	0.0162	U
218-01-9	Chrysene		0.00204	0.00406	0.0162	U
53-70-3	Dibenz(a,h)anthracene		0.00204	0.00406	0.0162	U
206-44-0	Fluoranthene	0.00718	0.00204	0.00406	0.0162	IV
86-73-7	Fluorene		0.00204	0.00406	0.0162	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00204	0.00406	0.0162	U
90-12-0	1-Methylnaphthalene	0.00278	0.00204	0.00406	0.0162	I
91-57-6	2-Methylnaphthalene	0.00542	0.00204	0.00406	0.0162	I
91-20-3	Naphthalene	0.00518	0.00204	0.00406	0.0162	I
85-01-8	Phenanthrene		0.00204	0.00406	0.0162	U
129-00-0	Pyrene		0.00204	0.00406	0.0162	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.067	3.410	83.8	14 - 129	X
Terphenyl-d14	4.067	3.429	84.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-4.0

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-17 File ID: 0702117.D

Sampled: 07/01/11 12:10 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 07:36

Solids: 62.98 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.552	0.00260	0.00518	0.0207	
208-96-8	Acenaphthylene	0.226	0.00260	0.00518	0.0207	
120-12-7	Anthracene		0.00260	0.00518	0.0207	U
56-55-3	Benzo(a)anthracene	0.180	0.00260	0.00518	0.0207	V
50-32-8	Benzo(a)pyrene	0.123	0.00260	0.00518	0.0207	V
205-99-2	Benzo(b)fluoranthene	0.207	0.00260	0.00518	0.0207	V
191-24-2	Benzo(g,h,i)perylene	0.0486	0.00260	0.00518	0.0207	V
207-08-9	Benzo(k)fluoranthene	0.0799	0.00260	0.00518	0.0207	V
218-01-9	Chrysene	0.248	0.00260	0.00518	0.0207	V
53-70-3	Dibenz(a,h)anthracene	0.0186	0.00260	0.00518	0.0207	I
206-44-0	Fluoranthene	0.864	0.00260	0.00518	0.0207	V
86-73-7	Fluorene	1.55	0.00260	0.00518	0.0207	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0643	0.00260	0.00518	0.0207	
90-12-0	1-Methylnaphthalene		0.00260	0.00518	0.0207	U
91-57-6	2-Methylnaphthalene	0.134	0.00260	0.00518	0.0207	
91-20-3	Naphthalene	0.0969	0.00260	0.00518	0.0207	
85-01-8	Phenanthrene	2.65	0.00260	0.00518	0.0207	V
129-00-0	Pyrene	0.920	0.00260	0.00518	0.0207	V

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	5.189	3.631	70.0	14 - 129	X
Terphenyl-d14	5.189	3.702	71.3	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS20-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-18 File ID: 0702118.D

Sampled: 07/01/11 12:20 Prepared: 07/12/11 11:00 Analyzed: 07/26/11 11:34

Solids: 86.66 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20711 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.449	0.00186	0.00372	0.0149	
208-96-8	Acenaphthylene	0.203	0.00186	0.00372	0.0149	
120-12-7	Anthracene	0.364	0.00186	0.00372	0.0149	
56-55-3	Benzo(a)anthracene	0.125	0.00186	0.00372	0.0149	V
50-32-8	Benzo(a)pyrene	0.0999	0.00186	0.00372	0.0149	V
205-99-2	Benzo(b)fluoranthene	0.159	0.00186	0.00372	0.0149	V
191-24-2	Benzo(g,h,i)perylene	0.0417	0.00186	0.00372	0.0149	V
207-08-9	Benzo(k)fluoranthene	0.0512	0.00186	0.00372	0.0149	V
218-01-9	Chrysene	0.178	0.00186	0.00372	0.0149	V
53-70-3	Dibenz(a,h)anthracene	0.0237	0.00186	0.00372	0.0149	
206-44-0	Fluoranthene	0.548	0.00186	0.00372	0.0149	V
86-73-7	Fluorene	1.18	0.00186	0.00372	0.0149	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0577	0.00186	0.00372	0.0149	
90-12-0	1-Methylnaphthalene	0.0453	0.00186	0.00372	0.0149	
91-57-6	2-Methylnaphthalene	0.0197	0.00186	0.00372	0.0149	
91-20-3	Naphthalene	0.0375	0.00186	0.00372	0.0149	
85-01-8	Phenanthrene	0.495	0.00186	0.00372	0.0149	V
129-00-0	Pyrene	0.593	0.00186	0.00372	0.0149	V

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.722	2.852	76.6	14 - 129	
Terphenyl-d14	3.722	2.592	69.6	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-0.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-19 File ID: 0702119D.D

Sampled: 07/01/11 12:30 Prepared: 07/12/11 11:00 Analyzed: 07/26/11 10:07

Solids: 87.62 Preparation: EXT_3546 Dilution: 10

Batch: 1G08020 Sequence: 1G20711 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0183	0.0365	0.146	U
208-96-8	Acenaphthylene		0.0183	0.0365	0.146	U
120-12-7	Anthracene		0.0183	0.0365	0.146	U
56-55-3	Benzo(a)anthracene	0.0281	0.0183	0.0365	0.146	, D IV
50-32-8	Benzo(a)pyrene		0.0183	0.0365	0.146	U
205-99-2	Benzo(b)fluoranthene		0.0183	0.0365	0.146	U
191-24-2	Benzo(g,h,i)perylene		0.0183	0.0365	0.146	U
207-08-9	Benzo(k)fluoranthene		0.0183	0.0365	0.146	U
218-01-9	Chrysene		0.0183	0.0365	0.146	U
53-70-3	Dibenz(a,h)anthracene		0.0183	0.0365	0.146	U
206-44-0	Fluoranthene	0.0273	0.0183	0.0365	0.146	, D IV
86-73-7	Fluorene		0.0183	0.0365	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0183	0.0365	0.146	U
90-12-0	1-Methylnaphthalene		0.0183	0.0365	0.146	U
91-57-6	2-Methylnaphthalene		0.0183	0.0365	0.146	U
91-20-3	Naphthalene		0.0183	0.0365	0.146	U
85-01-8	Phenanthrene		0.0183	0.0365	0.146	U
129-00-0	Pyrene	0.0308	0.0183	0.0365	0.146	, D IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.658	3.746	102	14 - 129	
Terphenyl-d14	3.658	2.933	80.2	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-2

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-20 File ID: 0702120.D

Sampled: 07/01/11 12:45 Prepared: 07/12/11 11:00 Analyzed: 07/25/11 08:04

Solids: 83.77 Preparation: EXT_3546 Dilution: 1

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00193	0.00385	0.0154	U
208-96-8	Acenaphthylene		0.00193	0.00385	0.0154	U
120-12-7	Anthracene		0.00193	0.00385	0.0154	U
56-55-3	Benzo(a)anthracene		0.00193	0.00385	0.0154	U
50-32-8	Benzo(a)pyrene		0.00193	0.00385	0.0154	U
205-99-2	Benzo(b)fluoranthene		0.00193	0.00385	0.0154	U
191-24-2	Benzo(g,h,i)perylene		0.00193	0.00385	0.0154	U
207-08-9	Benzo(k)fluoranthene		0.00193	0.00385	0.0154	U
218-01-9	Chrysene		0.00193	0.00385	0.0154	U
53-70-3	Dibenz(a,h)anthracene		0.00193	0.00385	0.0154	U
206-44-0	Fluoranthene	0.00422	0.00193	0.00385	0.0154	IV
86-73-7	Fluorene		0.00193	0.00385	0.0154	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00193	0.00385	0.0154	U
90-12-0	1-Methylnaphthalene		0.00193	0.00385	0.0154	U
91-57-6	2-Methylnaphthalene		0.00193	0.00385	0.0154	U
91-20-3	Naphthalene		0.00193	0.00385	0.0154	U
85-01-8	Phenanthrene	0.00715	0.00193	0.00385	0.0154	IV
129-00-0	Pyrene	0.00399	0.00193	0.00385	0.0154	IV

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.851	3.392	88.1	14 - 129	X
Terphenyl-d14	3.851	3.408	88.5	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-4

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-21 File ID: 0702121.D

Sampled: 07/01/11 13:10 Prepared: 07/11/11 12:45 Analyzed: 07/27/11 05:35

Solids: 88.03 Preparation: EXT_3546 Dilution: 1

Batch: 1G08021 Sequence: 1G20904 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.503	0.00185	0.00368	0.0147	
208-96-8	Acenaphthylene	0.199	0.00185	0.00368	0.0147	
120-12-7	Anthracene	0.414	0.00185	0.00368	0.0147	
56-55-3	Benzo(a)anthracene	0.268	0.00185	0.00368	0.0147	
50-32-8	Benzo(a)pyrene	0.177	0.00185	0.00368	0.0147	
205-99-2	Benzo(b)fluoranthene	0.235	0.00185	0.00368	0.0147	
191-24-2	Benzo(g,h,i)perylene	0.0807	0.00185	0.00368	0.0147	
207-08-9	Benzo(k)fluoranthene	0.0869	0.00185	0.00368	0.0147	
218-01-9	Chrysene	0.274	0.00185	0.00368	0.0147	
53-70-3	Dibenz(a,h)anthracene	0.0245	0.00185	0.00368	0.0147	
206-44-0	Fluoranthene	1.32	0.00185	0.00368	0.0147	
86-73-7	Fluorene	1.33	0.00185	0.00368	0.0147	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0707	0.00185	0.00368	0.0147	
90-12-0	1-Methylnaphthalene	3.02	0.00185	0.00368	0.0147	
91-57-6	2-Methylnaphthalene	0.598	0.00185	0.00368	0.0147	
91-20-3	Naphthalene	0.189	0.00185	0.00368	0.0147	
85-01-8	Phenanthrene	1.10	0.00185	0.00368	0.0147	V
129-00-0	Pyrene	1.13	0.00185	0.00368	0.0147	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.688	1.890	51.2	14 - 129	
Terphenyl-d14	3.688	1.882	51.0	14 - 129	

ANALYSIS DATA SHEET

MPT-1343-SS21-20110701-4.5

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Solid Laboratory ID: 1107021-22 File ID: 0702122.D

Sampled: 07/01/11 13:30 Prepared: 07/11/11 12:45 Analyzed: 07/27/11 06:03

Solids: 79.38 Preparation: EXT_3546 Dilution: 1

Batch: 1G08021 Sequence: 1G20904 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.204	0.00202	0.00403	0.0161	
208-96-8	Acenaphthylene	0.0742	0.00202	0.00403	0.0161	
120-12-7	Anthracene	0.206	0.00202	0.00403	0.0161	
56-55-3	Benzo(a)anthracene	0.140	0.00202	0.00403	0.0161	
50-32-8	Benzo(a)pyrene	0.0797	0.00202	0.00403	0.0161	
205-99-2	Benzo(b)fluoranthene	0.100	0.00202	0.00403	0.0161	
191-24-2	Benzo(g,h,i)perylene	0.0378	0.00202	0.00403	0.0161	
207-08-9	Benzo(k)fluoranthene	0.0392	0.00202	0.00403	0.0161	
218-01-9	Chrysene	0.144	0.00202	0.00403	0.0161	
53-70-3	Dibenz(a,h)anthracene	0.0104	0.00202	0.00403	0.0161	I
206-44-0	Fluoranthene	0.690	0.00202	0.00403	0.0161	
86-73-7	Fluorene	0.633	0.00202	0.00403	0.0161	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0351	0.00202	0.00403	0.0161	
90-12-0	1-Methylnaphthalene	0.912	0.00202	0.00403	0.0161	
91-57-6	2-Methylnaphthalene	0.163	0.00202	0.00403	0.0161	
91-20-3	Naphthalene	0.0703	0.00202	0.00403	0.0161	
85-01-8	Phenanthrene	0.369	0.00202	0.00403	0.0161	V
129-00-0	Pyrene	0.590	0.00202	0.00403	0.0161	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4.038	2.004	49.6	14 - 129	
Terphenyl-d14	4.038	2.247	55.6	14 - 129	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20704
Instrument: MS-BNA4
Calibration: 1112002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G20704-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 07/24/11 23:30		
2-Fluorobiphenyl	5.000	121	80 - 120	7.724	7.724	0.0000	+/-0.500	*
Terphenyl-d14	5.000	91.4	80 - 120	12.559	12.559	0.0000	+/-0.500	
LCS (1G08020-BS1) mg/Kg wet				Lab File ID: G08020L1.D		Analyzed: 07/25/11 01:54		
2-Fluorobiphenyl	3.333	98.6	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.333	93.8	14 - 129	12.559	12.559	0.0000	+/-0.500	
Blank (1G08020-BLK1) mg/Kg wet				Lab File ID: G08020B1.D		Analyzed: 07/25/11 02:23		
2-Fluorobiphenyl	3.333	98.0	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.333	79.2	14 - 129	12.559	12.559	0.0000	+/-0.500	
MPT-1343-SS12-20110701-02 (1107021-01) mg/Kg dry				Lab File ID: 0702101.D		Analyzed: 07/25/11 02:52		
2-Fluorobiphenyl	3.549	95.8	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.549	90.3	14 - 129	12.559	12.559	0.0000	+/-0.500	
MPT-1343-SS13-20110701-02 (1107021-02) mg/Kg dry				Lab File ID: 0702102.D		Analyzed: 07/25/11 03:21		
2-Fluorobiphenyl	3.920	92.1	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.920	83.7	14 - 129	12.558	12.559	-0.0010	+/-0.500	
MPT-1343-SS15-20110701-0.5 (1107021-04) mg/Kg dry				Lab File ID: 0702104.D		Analyzed: 07/25/11 03:50		
2-Fluorobiphenyl	3.553	63.0	14 - 129	7.724	7.724	0.0000	+/-0.500	
Terphenyl-d14	3.553	60.5	14 - 129	12.558	12.559	-0.0010	+/-0.500	
MPT-1343-SS18-20110701-4 (1107021-07) mg/Kg dry				Lab File ID: 0702107.D		Analyzed: 07/25/11 04:18		
2-Fluorobiphenyl	3.772	85.3	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.772	88.0	14 - 129	12.558	12.559	-0.0010	+/-0.500	
MPT-1343-SS18-20110701-4.5 (1107021-08) mg/Kg dry				Lab File ID: 0702108.D		Analyzed: 07/25/11 04:46		
2-Fluorobiphenyl	4.989	77.0	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	4.989	67.2	14 - 129	12.559	12.559	0.0000	+/-0.500	
MPT-1343-SS18-20110701-2 (1107021-10) mg/Kg dry				Lab File ID: 0702110.D		Analyzed: 07/25/11 05:14		
2-Fluorobiphenyl	3.981	86.5	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.981	79.8	14 - 129	12.559	12.559	0.0000	+/-0.500	
MPT-1343-SS19-20110701-2 (1107021-12) mg/Kg dry				Lab File ID: 0702112.D		Analyzed: 07/25/11 05:43		
2-Fluorobiphenyl	3.546	88.8	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.546	87.6	14 - 129	12.568	12.559	0.0090	+/-0.500	
MPT-1343-SS19-20110701-4 (1107021-13) mg/Kg dry				Lab File ID: 0702113.D		Analyzed: 07/25/11 06:11		
2-Fluorobiphenyl	3.819	93.2	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.819	86.8	14 - 129	12.568	12.559	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20704
Instrument: MS-BNA4
Calibration: 1112002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
MPT-1343-SS19-20110701-4.5 (1107021-14) mg/Kg dry				Lab File ID: 0702114.D		Analyzed: 07/25/11 06:39		
2-Fluorobiphenyl	3.653	87.8	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.653	85.1	14 - 129	12.568	12.559	0.0090	+/-0.500	
MPT-1343-SS20-20110701-2.0 (1107021-16) mg/Kg dry				Lab File ID: 0702116.D		Analyzed: 07/25/11 07:08		
2-Fluorobiphenyl	4.067	83.8	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	4.067	84.3	14 - 129	12.577	12.559	0.0180	+/-0.500	
MPT-1343-SS20-20110701-4.0 (1107021-17) mg/Kg dry				Lab File ID: 0702117.D		Analyzed: 07/25/11 07:36		
2-Fluorobiphenyl	5.189	70.0	14 - 129	7.743	7.724	0.0190	+/-0.500	
Terphenyl-d14	5.189	71.3	14 - 129	12.586	12.559	0.0270	+/-0.500	
MPT-1343-SS21-20110701-2 (1107021-20) mg/Kg dry				Lab File ID: 0702120.D		Analyzed: 07/25/11 08:04		
2-Fluorobiphenyl	3.851	88.1	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.851	88.5	14 - 129	12.568	12.559	0.0090	+/-0.500	
MPT-1343-SS16-20110701-0.5 (1107021-05) mg/Kg dry				Lab File ID: 0702105D.D		Analyzed: 07/25/11 08:33		
2-Fluorobiphenyl	3.765	78.8	14 - 129	7.724	7.724	0.0000	+/-0.500	
Terphenyl-d14	3.765	77.9	14 - 129	12.559	12.559	0.0000	+/-0.500	
MPT-1343-SS18-20110701-0.5 (1107021-09) mg/Kg dry				Lab File ID: 0702109D.D		Analyzed: 07/25/11 09:01		
2-Fluorobiphenyl	3.798	79.4	14 - 129	7.724	7.724	0.0000	+/-0.500	
Terphenyl-d14	3.798	75.2	14 - 129	12.558	12.559	-0.0010	+/-0.500	
MPT-1343-SS20-20110701-0.5 (1107021-15) mg/Kg dry				Lab File ID: 0702115D.D		Analyzed: 07/25/11 09:30		
2-Fluorobiphenyl	3.902	88.3	14 - 129	7.724	7.724	0.0000	+/-0.500	
Terphenyl-d14	3.902	79.5	14 - 129	12.559	12.559	0.0000	+/-0.500	
Matrix Spike (1G08020-MS1) mg/Kg dry				Lab File ID: 0702101M.D		Analyzed: 07/25/11 09:59		
2-Fluorobiphenyl	3.549	81.5	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.549	76.6	14 - 129	12.568	12.559	0.0090	+/-0.500	
Matrix Spike Dup (1G08020-MSD1) mg/Kg dry				Lab File ID: 0702101S.D		Analyzed: 07/25/11 10:27		
2-Fluorobiphenyl	3.572	90.2	14 - 129	7.734	7.724	0.0100	+/-0.500	
Terphenyl-d14	3.572	85.6	14 - 129	12.568	12.559	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20711
Instrument: MS-BNA4
Calibration: 1112002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G20711-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 07/26/11 02:27		
2-Fluorobiphenyl	5.000	114	80 - 120	7.687	7.687	0.0000	+/-0.500	
Terphenyl-d14	5.000	102	80 - 120	12.503	12.503	0.0000	+/-0.500	
MPT-1343-SS14-20110701-0.5 (1107021-03) mg/Kg dry				Lab File ID: 0702103D.D		Analyzed: 07/26/11 09:38		
2-Fluorobiphenyl	4.194	49.0	14 - 129	7.687	7.687	0.0000	+/-0.500	
Terphenyl-d14	4.194	50.3	14 - 129	12.503	12.503	0.0000	+/-0.500	
MPT-1343-SS21-20110701-0.5 (1107021-19) mg/Kg dry				Lab File ID: 0702119D.D		Analyzed: 07/26/11 10:07		
2-Fluorobiphenyl	3.658	102	14 - 129	7.687	7.687	0.0000	+/-0.500	
Terphenyl-d14	3.658	80.2	14 - 129	12.503	12.503	0.0000	+/-0.500	
MPT-1343-SS17-20110701-0.5 (1107021-06) mg/Kg dry				Lab File ID: 0702106.D		Analyzed: 07/26/11 10:36		
2-Fluorobiphenyl	3.448	81.7	14 - 129	7.687	7.687	0.0000	+/-0.500	
Terphenyl-d14	3.448	70.6	14 - 129	12.503	12.503	0.0000	+/-0.500	
MPT-1343-SS19-20110701-0.5 (1107021-11) mg/Kg dry				Lab File ID: 0702111.D		Analyzed: 07/26/11 11:05		
2-Fluorobiphenyl	3.898	94.0	14 - 129	7.687	7.687	0.0000	+/-0.500	
Terphenyl-d14	3.898	79.4	14 - 129	12.503	12.503	0.0000	+/-0.500	
MPT-1343-SS20-20110701-4.5 (1107021-18) mg/Kg dry				Lab File ID: 0702118.D		Analyzed: 07/26/11 11:34		
2-Fluorobiphenyl	3.722	76.6	14 - 129	7.706	7.687	0.0190	+/-0.500	
Terphenyl-d14	3.722	69.6	14 - 129	12.531	12.503	0.0280	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20819
Instrument: MS-BNA4
Calibration: 1112002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G20819-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/26/11 16:22		
2-Fluorobiphenyl	5.000	116	80 - 120	7.643	7.643	0.0000	+/-0.500	
Terphenyl-d14	5.000	108	80 - 120	12.44	12.44	0.0000	+/-0.500	
LCS (1G08021-BS2) mg/Kg wet				Lab File ID: G08021L1.D		Analyzed: 07/26/11 16:56		
2-Fluorobiphenyl	3.333	88.8	14 - 129	7.652	7.643	0.0090	+/-0.500	
Terphenyl-d14	3.333	77.8	14 - 129	12.449	12.44	0.0090	+/-0.500	
Blank (1G08021-BLK2) mg/Kg wet				Lab File ID: G08021B1.D		Analyzed: 07/26/11 17:26		
2-Fluorobiphenyl	3.333	84.7	14 - 129	7.652	7.643	0.0090	+/-0.500	
Terphenyl-d14	3.333	68.7	14 - 129	12.449	12.44	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20904
Instrument: MS-BNA4
Calibration: 1112002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G20904-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 07/27/11 04:38		
2-Fluorobiphenyl	5.000	112	80 - 120	7.643	7.643	0.0000	+/-0.500	
Terphenyl-d14	5.000	102	80 - 120	12.44	12.44	0.0000	+/-0.500	
MPT-1343-SS21-20110701-4 (1107021-21) mg/Kg dry				Lab File ID: 0702121.D		Analyzed: 07/27/11 05:35		
2-Fluorobiphenyl	3.688	51.2	14 - 129	7.671	7.643	0.0280	+/-0.500	
Terphenyl-d14	3.688	51.0	14 - 129	12.477	12.44	0.0370	+/-0.500	
MPT-1343-SS21-20110701-4.5 (1107021-22) mg/Kg dry				Lab File ID: 0702122.D		Analyzed: 07/27/11 06:03		
2-Fluorobiphenyl	4.038	49.6	14 - 129	7.652	7.643	0.0090	+/-0.500	
Terphenyl-d14	4.038	55.6	14 - 129	12.458	12.44	0.0180	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1G08020	Laboratory ID:	1G08020-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	0.06667	0.06515	97.7	28 - 110
Acenaphthylene	0.06667	0.05009	75.1	23 - 126
Anthracene	0.06667	0.05271	79.1	28 - 136
Benzo(a)anthracene	0.06667	0.04757	71.4	31 - 146
Benzo(a)pyrene	0.06667	0.05315	79.7	28 - 128
Benzo(b)fluoranthene	0.06667	0.05110	76.6	30 - 139
Benzo(g,h,i)perylene	0.06667	0.04893	73.4	21 - 149
Benzo(k)fluoranthene	0.06667	0.06452	96.8	42 - 129
Chrysene	0.06667	0.05033	75.5	39 - 134
Dibenz(a,h)anthracene	0.06667	0.04851	72.8	30 - 138
Fluoranthene	0.06667	0.06061	90.9	30 - 142
Fluorene	0.06667	0.06124	91.9	27 - 116
Indeno(1,2,3-cd)pyrene	0.06667	0.05815	87.2	17 - 164
1-Methylnaphthalene	0.06667	0.06098	91.5	30 - 111
2-Methylnaphthalene	0.06667	0.05952	89.3	30 - 111
Naphthalene	0.06667	0.06363	95.4	29 - 106
Phenanthrene	0.06667	0.06431	96.5	32 - 127
Pyrene	0.06667	0.06024	90.4	28 - 130

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Matrix:	Solid		
Batch:	1G08021	Laboratory ID:	1G08021-BS2
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	0.03333	0.03140	94.2	28 - 110
Acenaphthylene	0.03333	0.02458	73.7	23 - 126
Anthracene	0.03333	0.02605	78.1	28 - 136
Benzo(a)anthracene	0.03333	0.02283	68.5	31 - 146
Benzo(a)pyrene	0.03333	0.02420	72.6	28 - 128
Benzo(b)fluoranthene	0.03333	0.02340	70.2	30 - 139
Benzo(g,h,i)perylene	0.03333	0.03483	104	21 - 149
Benzo(k)fluoranthene	0.03333	0.02740	82.2	42 - 129
Chrysene	0.03333	0.02085	62.6	39 - 134
Dibenz(a,h)anthracene	0.03333	0.03301	99.0	30 - 138
Fluoranthene	0.03333	0.02634	79.0	30 - 142
Fluorene	0.03333	0.03192	95.8	27 - 116
Indeno(1,2,3-cd)pyrene	0.03333	0.02759	82.8	17 - 164
1-Methylnaphthalene	0.03333	0.02822	84.7	30 - 111
2-Methylnaphthalene	0.03333	0.02793	83.8	30 - 111
Naphthalene	0.03333	0.03138	94.1	29 - 106
Phenanthrene	0.03333	0.03146	94.4	32 - 127
Pyrene	0.03333	0.02690	80.7	28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

MPT-1343-SS12-20110701-02

Laboratory: Empirical Laboratories, LLC

SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Batch: 1G08020

% Solids: 92.09

Source Sample Name: **1107021-01**

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	0.07098	0.002638	0.06020	81.1		28 - 110
Acenaphthylene	0.07098	ND	0.04788	67.5		23 - 126
Anthracene	0.07098	ND	0.05244	73.9		28 - 136
Benzo(a)anthracene	0.07098	0.004143	0.05285	68.6		31 - 146
Benzo(a)pyrene	0.07098	ND	0.06345	89.4		28 - 128
Benzo(b)fluoranthene	0.07098	0.007107	0.06636	83.5		30 - 139
Benzo(g,h,i)perylene	0.07098	0.006259	0.05422	67.6		21 - 149
Benzo(k)fluoranthene	0.07098	ND	0.07159	101		42 - 129
Chrysene	0.07098	0.003541	0.05347	70.4		39 - 134
Dibenz(a,h)anthracene	0.07098	ND	0.05605	79.0		30 - 138
Fluoranthene	0.07098	0.01055	0.07648	92.9		30 - 142
Fluorene	0.07098	ND	0.06394	90.1		27 - 116
Indeno(1,2,3-cd)pyrene	0.07098	ND	0.06769	95.4		17 - 164
1-Methylnaphthalene	0.07098	ND	0.05578	78.6		30 - 111
2-Methylnaphthalene	0.07098	0.001801	0.05563	75.8		30 - 111
Naphthalene	0.07098	0.003002	0.06204	83.2		29 - 106
Phenanthrene	0.07098	0.009363	0.07156	87.6		32 - 127
Pyrene	0.07098	0.007861	0.07033	88.0		28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

MPT-1343-SS12-20110701-02

Laboratory: Empirical Laboratories, LLC

SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Mayport CTO JM33 2010

Matrix: Solid

Batch: 1G08020

% Solids: 92.09

Source Sample Name: **1107021-01**

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	0.07144	0.06580	88.4	8.89		30	28 - 110
Acenaphthylene	0.07144	0.05408	75.7	12.2		30	23 - 126
Anthracene	0.07144	0.05354	74.9	2.08		30	28 - 136
Benzo(a)anthracene	0.07144	0.05717	74.2	7.85		30	31 - 146
Benzo(a)pyrene	0.07144	0.05009	70.1	23.5		30	28 - 128
Benzo(b)fluoranthene	0.07144	0.05787	71.1	13.7		30	30 - 139
Benzo(g,h,i)perylene	0.07144	0.05622	69.9	3.63		30	21 - 149
Benzo(k)fluoranthene	0.07144	0.05678	79.5	23.1		30	42 - 129
Chrysene	0.07144	0.05826	76.6	8.56		30	39 - 134
Dibenz(a,h)anthracene	0.07144	0.04869	68.2	14.0		30	30 - 138
Fluoranthene	0.07144	0.07290	87.3	4.78		30	30 - 142
Fluorene	0.07144	0.06680	93.5	4.37		30	27 - 116
Indeno(1,2,3-cd)pyrene	0.07144	0.05550	77.7	19.8		30	17 - 164
1-Methylnaphthalene	0.07144	0.05824	81.5	4.31		30	30 - 111
2-Methylnaphthalene	0.07144	0.06145	83.5	9.94		30	30 - 111
Naphthalene	0.07144	0.06704	89.6	7.76		30	29 - 106
Phenanthrene	0.07144	0.07225	88.0	0.949		30	32 - 127
Pyrene	0.07144	0.06608	81.5	6.23		30	28 - 130

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1G08020 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS12-20110701-02	1107021-01	07/12/11 11:00	15.30	1.00
MPT-1343-SS13-20110701-02	1107021-02	07/12/11 11:00	15.30	1.00
MPT-1343-SS14-20110701-0.5	1107021-03	07/12/11 11:00	15.50	1.00
MPT-1343-SS15-20110701-0.5	1107021-04	07/12/11 11:00	15.50	1.00
MPT-1343-SS16-20110701-0.5	1107021-05	07/12/11 11:00	15.50	1.00
MPT-1343-SS17-20110701-0.5	1107021-06	07/12/11 11:00	15.90	1.00
MPT-1343-SS18-20110701-4	1107021-07	07/12/11 11:00	15.60	1.00
MPT-1343-SS18-20110701-4.5	1107021-08	07/12/11 11:00	15.20	1.00
MPT-1343-SS18-20110701-0.5	1107021-09	07/12/11 11:00	15.50	1.00
MPT-1343-SS18-20110701-2	1107021-10	07/12/11 11:00	15.40	1.00
MPT-1343-SS19-20110701-0.5	1107021-11	07/12/11 11:00	15.20	1.00
MPT-1343-SS19-20110701-2	1107021-12	07/12/11 11:00	15.80	1.00
MPT-1343-SS19-20110701-4	1107021-13	07/12/11 11:00	15.70	1.00
MPT-1343-SS19-20110701-4.5	1107021-14	07/12/11 11:00	15.90	1.00
MPT-1343-SS20-20110701-0.5	1107021-15	07/12/11 11:00	15.30	1.00
MPT-1343-SS20-20110701-2.0	1107021-16	07/12/11 11:00	15.20	1.00
MPT-1343-SS20-20110701-4.0	1107021-17	07/12/11 11:00	15.30	1.00
MPT-1343-SS20-20110701-4.5	1107021-18	07/12/11 11:00	15.50	1.00
MPT-1343-SS21-20110701-0.5	1107021-19	07/12/11 11:00	15.60	1.00
MPT-1343-SS21-20110701-2	1107021-20	07/12/11 11:00	15.50	1.00
Blank	1G08020-BLK1	07/12/11 11:00	15.00	1.00
LCS	1G08020-BS1	07/12/11 11:00	15.00	1.00
MPT-1343-SS12-20110701-02	1G08020-MS1	07/12/11 11:00	15.30	1.00
MPT-1343-SS12-20110701-02	1G08020-MSD1	07/12/11 11:00	15.20	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Batch: 1G08021 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MPT-1343-SS21-20110701-4	1107021-21	07/11/11 12:45	15.40	1.00
MPT-1343-SS21-20110701-4.5	1107021-22	07/11/11 12:45	15.60	1.00
Blank	1G08021-BLK2	07/11/11 12:45	15.00	1.00
LCS	1G08021-BS2	07/11/11 12:45	15.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN2.D	Injection Date:	04/19/11
Instrument ID:	MS-BNA4	Injection Time:	14:38
Sequence:	1D11106	Lab Sample ID:	1D11106-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.9	PASS
68	Less than 2% of 69	1.42	PASS
69	Less than 200% of 198	55.6	PASS
70	Less than 2% of 69	0.506	PASS
127	40 - 60% of 198	58.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.61	PASS
275	10 - 30% of 198	25.1	PASS
365	1 - 200% of 198	3.39	PASS
441	0.001 - 100% of 443	81.4	PASS
442	40 - 200% of 198	116	PASS
443	17 - 23% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN2.D	Injection Date:	07/24/11
Instrument ID:	MS-BNA4	Injection Time:	23:12
Sequence:	1G20704	Lab Sample ID:	1G20704-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.5	PASS
68	Less than 2% of 69	1.51	PASS
69	Less than 200% of 198	56.4	PASS
70	Less than 2% of 69	0.442	PASS
127	40 - 60% of 198	58.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.02	PASS
275	10 - 30% of 198	23.7	PASS
365	1 - 200% of 198	3.05	PASS
441	0.001 - 100% of 443	82.6	PASS
442	40 - 200% of 198	93.3	PASS
443	17 - 23% of 442	20.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN2.D	Injection Date:	07/26/11
Instrument ID:	MS-BNA4	Injection Time:	02:08
Sequence:	1G20711	Lab Sample ID:	1G20711-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41	PASS
68	Less than 2% of 69	1.4	PASS
69	Less than 200% of 198	43.8	PASS
70	Less than 2% of 69	0.528	PASS
127	40 - 60% of 198	49.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.93	PASS
275	10 - 30% of 198	26.5	PASS
365	1 - 200% of 198	3.82	PASS
441	0.001 - 100% of 443	77.5	PASS
442	40 - 200% of 198	119	PASS
443	17 - 23% of 442	20.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/26/11
Instrument ID:	MS-BNA4	Injection Time:	16:02
Sequence:	1G20819	Lab Sample ID:	1G20819-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	57.2	PASS
68	Less than 2% of 69	1.64	PASS
69	Less than 200% of 198	59.9	PASS
70	Less than 2% of 69	0.416	PASS
127	40 - 60% of 198	59.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.52	PASS
275	10 - 30% of 198	22.5	PASS
365	1 - 200% of 198	2.96	PASS
441	0.001 - 100% of 443	82	PASS
442	40 - 200% of 198	75.2	PASS
443	17 - 23% of 442	20.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Lab File ID:	SEQ-TUN2.D	Injection Date:	07/27/11
Instrument ID:	MS-BNA4	Injection Time:	04:20
Sequence:	1G20904	Lab Sample ID:	1G20904-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55	PASS
68	Less than 2% of 69	1.5	PASS
69	Less than 200% of 198	57.8	PASS
70	Less than 2% of 69	0.494	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.77	PASS
275	10 - 30% of 198	23.6	PASS
365	1 - 200% of 198	2.91	PASS
441	0.001 - 100% of 443	81.8	PASS
442	40 - 200% of 198	87	PASS
443	17 - 23% of 442	19.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1D11106	Instrument:	MS-BNA4
Calibration:	1112002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1D11106-TUN1	SEQ-TUN2.D	04/19/11 14:38
Cal Standard	1D11106-CAL1	SEQ-CAL1.D	04/19/11 14:56
Cal Standard	1D11106-CAL2	SEQ-CAL2.D	04/19/11 15:22
Cal Standard	1D11106-CAL3	SEQ-CAL3.D	04/19/11 15:49
Cal Standard	1D11106-CAL4	SEQ-CAL4.D	04/19/11 16:15
Cal Standard	1D11106-CAL5	SEQ-CAL5.D	04/19/11 16:41
Cal Standard	1D11106-CAL6	SEQ-CAL6.D	04/19/11 17:07
Cal Standard	1D11106-CAL7	SEQ-CAL7.D	04/19/11 17:33
Cal Standard	1D11106-CAL8	SEQ-CAL8.D	04/19/11 18:00
Cal Standard	1D11106-CAL9	SEQ-CAL9.D	04/19/11 18:26
Initial Cal Check	1D11106-ICV1	SEQ-ICV1.D	04/19/11 18:52

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1G20704	Instrument:	MS-BNA4
Calibration:	1112002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G20704-TUN1	SEQ-TUN2.D	07/24/11 23:12
Calibration Check	1G20704-CCV1	SEQ-CCV2.D	07/24/11 23:30
LCS	1G08020-BS1	G08020L1.D	07/25/11 01:54
Blank	1G08020-BLK1	G08020B1.D	07/25/11 02:23
MPT-1343-SS12-20110701-02	1107021-01	0702101.D	07/25/11 02:52
MPT-1343-SS13-20110701-02	1107021-02	0702102.D	07/25/11 03:21
MPT-1343-SS15-20110701-0.5	1107021-04	0702104.D	07/25/11 03:50
MPT-1343-SS18-20110701-4	1107021-07	0702107.D	07/25/11 04:18
MPT-1343-SS18-20110701-4.5	1107021-08	0702108.D	07/25/11 04:46
MPT-1343-SS18-20110701-2	1107021-10	0702110.D	07/25/11 05:14
MPT-1343-SS19-20110701-2	1107021-12	0702112.D	07/25/11 05:43
MPT-1343-SS19-20110701-4	1107021-13	0702113.D	07/25/11 06:11
MPT-1343-SS19-20110701-4.5	1107021-14	0702114.D	07/25/11 06:39
MPT-1343-SS20-20110701-2.0	1107021-16	0702116.D	07/25/11 07:08
MPT-1343-SS20-20110701-4.0	1107021-17	0702117.D	07/25/11 07:36
MPT-1343-SS21-20110701-2	1107021-20	0702120.D	07/25/11 08:04
MPT-1343-SS16-20110701-0.5	1107021-05	0702105D.D	07/25/11 08:33
MPT-1343-SS18-20110701-0.5	1107021-09	0702109D.D	07/25/11 09:01
MPT-1343-SS20-20110701-0.5	1107021-15	0702115D.D	07/25/11 09:30
MPT-1343-SS12-20110701-02	1G08020-MS1	0702101M.D	07/25/11 09:59
MPT-1343-SS12-20110701-02	1G08020-MSD1	0702101S.D	07/25/11 10:27

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1G20711	Instrument:	MS-BNA4
Calibration:	1112002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G20711-TUN1	SEQ-TUN2.D	07/26/11 02:08
Calibration Check	1G20711-CCV1	SEQ-CCV2.D	07/26/11 02:27
MPT-1343-SS14-20110701-0.5	1107021-03	0702103D.D	07/26/11 09:38
MPT-1343-SS21-20110701-0.5	1107021-19	0702119D.D	07/26/11 10:07
MPT-1343-SS17-20110701-0.5	1107021-06	0702106.D	07/26/11 10:36
MPT-1343-SS19-20110701-0.5	1107021-11	0702111.D	07/26/11 11:05
MPT-1343-SS20-20110701-4.5	1107021-18	0702118.D	07/26/11 11:34

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1G20819	Instrument:	MS-BNA4
Calibration:	1112002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G20819-TUN1	SEQ-TUN1.D	07/26/11 16:02
Calibration Check	1G20819-CCV1	SEQ-CCV1.D	07/26/11 16:22
LCS	1G08021-BS2	G08021L1.D	07/26/11 16:56
Blank	1G08021-BLK2	G08021B1.D	07/26/11 17:26

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Sequence:	1G20904	Instrument:	MS-BNA4
Calibration:	1112002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G20904-TUN1	SEQ-TUN2.D	07/27/11 04:20
Calibration Check	1G20904-CCV1	SEQ-CCV2.D	07/27/11 04:38
MPT-1343-SS21-20110701-4	1107021-21	0702121.D	07/27/11 05:35
MPT-1343-SS21-20110701-4.5	1107021-22	0702122.D	07/27/11 06:03

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20704
Instrument: MS-BNA4
Calibration: 1112002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G20704-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/24/11 23:30			
Phenanthrene-d10	123305	10.383	138732	9.706	89	50 - 200	0.6770	+/-0.50	
Perylene-d12	49252	17.123	75266	14.837	65	50 - 200	2.2860	+/-0.50	
LCS (1G08020-BS1)			Lab File ID: G08020L1.D			Analyzed: 07/25/11 01:54			
Phenanthrene-d10	130408	10.383	123305	10.383	106	50 - 200	0.0000	+/-0.50	
Perylene-d12	45878	17.123	49252	17.123	93	50 - 200	0.0000	+/-0.50	
Blank (1G08020-BLK1)			Lab File ID: G08020B1.D			Analyzed: 07/25/11 02:23			
Phenanthrene-d10	133022	10.383	123305	10.383	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	25229	17.133	49252	17.123	51	50 - 200	0.0100	+/-0.50	
MPT-1343-SS12-20110701-02 (1107021-01)			Lab File ID: 0702101.D			Analyzed: 07/25/11 02:52			
Phenanthrene-d10	140512	10.383	123305	10.383	114	50 - 200	0.0000	+/-0.50	
Perylene-d12	52030	17.132	49252	17.123	106	50 - 200	0.0090	+/-0.50	
MPT-1343-SS13-20110701-02 (1107021-02)			Lab File ID: 0702102.D			Analyzed: 07/25/11 03:21			
Phenanthrene-d10	132873	10.383	123305	10.383	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	52002	17.123	49252	17.123	106	50 - 200	0.0000	+/-0.50	
MPT-1343-SS15-20110701-0.5 (1107021-04)			Lab File ID: 0702104.D			Analyzed: 07/25/11 03:50			
Phenanthrene-d10	128524	10.383	123305	10.383	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	49956	17.123	49252	17.123	101	50 - 200	0.0000	+/-0.50	
MPT-1343-SS18-20110701-4 (1107021-07)			Lab File ID: 0702107.D			Analyzed: 07/25/11 04:18			
Phenanthrene-d10	136871	10.383	123305	10.383	111	50 - 200	0.0000	+/-0.50	
Perylene-d12	54275	17.123	49252	17.123	110	50 - 200	0.0000	+/-0.50	
MPT-1343-SS18-20110701-4.5 (1107021-08)			Lab File ID: 0702108.D			Analyzed: 07/25/11 04:46			
Phenanthrene-d10	137589	10.383	123305	10.383	112	50 - 200	0.0000	+/-0.50	
Perylene-d12	57981	17.123	49252	17.123	118	50 - 200	0.0000	+/-0.50	
MPT-1343-SS18-20110701-2 (1107021-10)			Lab File ID: 0702110.D			Analyzed: 07/25/11 05:14			
Phenanthrene-d10	142052	10.383	123305	10.383	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	53218	17.132	49252	17.123	108	50 - 200	0.0090	+/-0.50	
MPT-1343-SS19-20110701-2 (1107021-12)			Lab File ID: 0702112.D			Analyzed: 07/25/11 05:43			
Phenanthrene-d10	153163	10.383	123305	10.383	124	50 - 200	0.0000	+/-0.50	
Perylene-d12	55290	17.133	49252	17.123	112	50 - 200	0.0100	+/-0.50	
MPT-1343-SS19-20110701-4 (1107021-13)			Lab File ID: 0702113.D			Analyzed: 07/25/11 06:11			
Phenanthrene-d10	141401	10.383	123305	10.383	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	56543	17.133	49252	17.123	115	50 - 200	0.0100	+/-0.50	
MPT-1343-SS19-20110701-4.5 (1107021-14)			Lab File ID: 0702114.D			Analyzed: 07/25/11 06:39			
Phenanthrene-d10	152253	10.383	123305	10.383	123	50 - 200	0.0000	+/-0.50	
Perylene-d12	62687	17.133	49252	17.123	127	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20704
Instrument: MS-BNA4
Calibration: 1112002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MPT-1343-SS20-20110701-2.0 (1107021-16)			Lab File ID: 0702116.D			Analyzed: 07/25/11 07:08			
Phenanthrene-d10	185397	10.383	123305	10.383	150	50 - 200	0.0000	+/-0.50	
Perylene-d12	72752	17.132	49252	17.123	148	50 - 200	0.0090	+/-0.50	
MPT-1343-SS20-20110701-4.0 (1107021-17)			Lab File ID: 0702117.D			Analyzed: 07/25/11 07:36			
Phenanthrene-d10	194081	10.411	123305	10.383	157	50 - 200	0.0280	+/-0.50	
Perylene-d12	71510	17.132	49252	17.123	145	50 - 200	0.0090	+/-0.50	
MPT-1343-SS21-20110701-2 (1107021-20)			Lab File ID: 0702120.D			Analyzed: 07/25/11 08:04			
Phenanthrene-d10	156186	10.383	123305	10.383	127	50 - 200	0.0000	+/-0.50	
Perylene-d12	56053	17.132	49252	17.123	114	50 - 200	0.0090	+/-0.50	
MPT-1343-SS16-20110701-0.5 (1107021-05)			Lab File ID: 0702105D.D			Analyzed: 07/25/11 08:33			
Phenanthrene-d10	118978	10.383	123305	10.383	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	37475	17.132	49252	17.123	76	50 - 200	0.0090	+/-0.50	
MPT-1343-SS18-20110701-0.5 (1107021-09)			Lab File ID: 0702109D.D			Analyzed: 07/25/11 09:01			
Phenanthrene-d10	129433	10.383	123305	10.383	105	50 - 200	0.0000	+/-0.50	
Perylene-d12	53097	17.132	49252	17.123	108	50 - 200	0.0090	+/-0.50	
MPT-1343-SS20-20110701-0.5 (1107021-15)			Lab File ID: 0702115D.D			Analyzed: 07/25/11 09:30			
Phenanthrene-d10	139371	10.383	123305	10.383	113	50 - 200	0.0000	+/-0.50	
Perylene-d12	48741	17.123	49252	17.123	99	50 - 200	0.0000	+/-0.50	
Matrix Spike (1G08020-MS1)			Lab File ID: 0702101M.D			Analyzed: 07/25/11 09:59			
Phenanthrene-d10	152816	10.383	123305	10.383	124	50 - 200	0.0000	+/-0.50	
Perylene-d12	48543	17.132	49252	17.123	99	50 - 200	0.0090	+/-0.50	
Matrix Spike Dup (1G08020-MSD1)			Lab File ID: 0702101S.D			Analyzed: 07/25/11 10:27			
Phenanthrene-d10	144002	10.383	123305	10.383	117	50 - 200	0.0000	+/-0.50	
Perylene-d12	60229	17.132	49252	17.123	122	50 - 200	0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20711
Instrument: MS-BNA4
Calibration: 1112002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G20711-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/26/11 02:27			
Phenanthrene-d10	132099	10.337	138732	9.706	95	50 - 200	0.6310	+/-0.50	
Perylene-d12	83208	17.039	75266	14.837	111	50 - 200	2.2020	+/-0.50	
MPT-1343-SS14-20110701-0.5 (1107021-03)			Lab File ID: 0702103D.D			Analyzed: 07/26/11 09:38			
Phenanthrene-d10	127676	10.337	132099	10.337	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	83044	17.049	83208	17.039	100	50 - 200	0.0100	+/-0.50	
MPT-1343-SS21-20110701-0.5 (1107021-19)			Lab File ID: 0702119D.D			Analyzed: 07/26/11 10:07			
Phenanthrene-d10	100052	10.337	132099	10.337	76	50 - 200	0.0000	+/-0.50	
Perylene-d12	49988	17.049	83208	17.039	60	50 - 200	0.0100	+/-0.50	
MPT-1343-SS17-20110701-0.5 (1107021-06)			Lab File ID: 0702106.D			Analyzed: 07/26/11 10:36			
Phenanthrene-d10	110315	10.337	132099	10.337	84	50 - 200	0.0000	+/-0.50	
Perylene-d12	57651	17.058	83208	17.039	69	50 - 200	0.0190	+/-0.50	
MPT-1343-SS19-20110701-0.5 (1107021-11)			Lab File ID: 0702111.D			Analyzed: 07/26/11 11:05			
Phenanthrene-d10	121216	10.337	132099	10.337	92	50 - 200	0.0000	+/-0.50	
Perylene-d12	54139	17.049	83208	17.039	65	50 - 200	0.0100	+/-0.50	
MPT-1343-SS20-20110701-4.5 (1107021-18)			Lab File ID: 0702118.D			Analyzed: 07/26/11 11:34			
Phenanthrene-d10	160020	10.374	132099	10.337	121	50 - 200	0.0370	+/-0.50	
Perylene-d12	70803	17.049	83208	17.039	85	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20819
Instrument: MS-BNA4
Calibration: 1112002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G20819-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/26/11 16:22			
Phenanthrene-d10	131491	10.293	138732	9.706	95	50 - 200	0.5870	+/-0.50	
Perylene-d12	98284	16.958	75266	14.837	131	50 - 200	2.1210	+/-0.50	
LCS (1G08021-BS2)			Lab File ID: G08021L1.D			Analyzed: 07/26/11 16:56			
Phenanthrene-d10	126463	10.293	131491	10.293	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	60277	16.958	98284	16.958	61	50 - 200	0.0000	+/-0.50	
Blank (1G08021-BLK2)			Lab File ID: G08021B1.D			Analyzed: 07/26/11 17:26			
Phenanthrene-d10	135094	10.292	131491	10.293	103	50 - 200	-0.0010	+/-0.50	
Perylene-d12	56600	16.958	98284	16.958	58	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Sequence: 1G20904
Instrument: MS-BNA4
Calibration: 1112002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G20904-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/27/11 04:38			
Phenanthrene-d10	135338	10.293	138732	9.706	98	50 - 200	0.5870	+/-0.50	
Perylene-d12	83589	16.958	75266	14.837	111	50 - 200	2.1210	+/-0.50	
MPT-1343-SS21-20110701-4 (1107021-21)			Lab File ID: 0702121.D			Analyzed: 07/27/11 05:35			
Phenanthrene-d10	141492	10.339	135338	10.293	105	50 - 200	0.0460	+/-0.50	
Perylene-d12	66737	16.967	83589	16.958	80	50 - 200	0.0090	+/-0.50	
MPT-1343-SS21-20110701-4.5 (1107021-22)			Lab File ID: 0702122.D			Analyzed: 07/27/11 06:03			
Phenanthrene-d10	124853	10.311	135338	10.293	92	50 - 200	0.0180	+/-0.50	
Perylene-d12	70819	16.967	83589	16.958	85	50 - 200	0.0090	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1112002
Instrument: MS-BNA4
Matrix: Water
Calibration Dates: 4/19/11 14:56 4/19/11 18:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.9073685	0.2	0.8472282	0.5	0.8071579	1	0.8498111	5	0.7983861	10	0.8336235
Acenaphthylene	0.1	1.270537	0.2	1.269796	0.5	1.203545	1	1.329895	5	1.244934	10	1.26954
Anthracene	0.1	1.316798	0.2	1.168288	0.5	1.110749	1	1.196516	5	1.142564	10	1.145289
Benzo(a)anthracene	0.1	0.7733584	0.2	0.7987414	0.5	0.7936948	1	0.7615763	5	0.7571927	10	0.7128554
Benzo(a)pyrene	0.1	1.011587	0.2	1.030946	0.5	1.017569	1	1.060213	5	1.0839	10	1.070646
Benzo(b)fluoranthene	0.1	1.069402	0.2	1.059034	0.5	1.373963	1	1.372638	5	1.430587	10	1.441237
Benzo(g,h,i)perylene	0.1	0.9408315	0.2	0.8405568	0.5	0.7976318	1	0.8148168	5	0.864219	10	0.8665815
Benzo(k)fluoranthene	0.1	1.267422	0.2	1.346846	0.5	1.26362	1	1.415845	5	1.392767	10	1.383433
Chrysene	0.1	0.7544808	0.2	0.8034506	0.5	0.8045734	1	0.7738445	5	0.7358241	10	0.6923619
Dibenz(a,h)anthracene	0.1	0.9496165	0.2	0.7466783	0.5	0.7402214	1	0.6805862	5	0.796443	10	0.7934616
Fluoranthene	0.1	1.157548	0.2	1.062454	0.5	1.095169	1	1.124283	5	1.105329	10	1.104339
Fluorene	0.1	0.8064115	0.2	0.7540568	0.5	0.8063694	1	0.856421	5	0.815093	10	0.8250326
2-Fluorobiphenyl	0.1	0.9111025	0.2	0.8179966	0.5	0.8596231	1	0.9163567	5	0.8693337	10	0.9032449
Indeno(1,2,3-cd)pyrene	0.1	1.093383	0.2	0.9068841	0.5	0.9403396	1	0.8500651	5	0.988829	10	1.00136
1-Methylnaphthalene	0.1	0.9055015	0.2	0.8433563	0.5	0.8234392	1	0.8924473	5	0.8141195	10	0.8432931
2-Methylnaphthalene	0.1	0.8922941	0.2	0.8542047	0.5	0.8425825	1	0.9153548	5	0.8238603	10	0.8462289
Naphthalene	0.1	1.349228	0.2	1.335829	0.5	1.292384	1	1.372084	5	1.289524	10	1.314208
Phenanthrene	0.1	1.168128	0.2	1.160509	0.5	1.123307	1	1.207249	5	1.149711	10	1.147939
Pyrene	0.1	1.125118	0.2	1.087779	0.5	1.101083	1	1.132428	5	1.126722	10	1.105628
Terphenyl-d14	0.1	0.6677684	0.2	0.7013144	0.5	0.7095286	1	0.6890768	5	0.6935843	10	0.6867195
2,4,6-Tribromophenol	0.2	~~9.577087E-02~~	0.4	~~0.1047175~~	1	0.1132755	2	0.1399245	10	0.1621875	20	0.1721881

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1112002
Instrument: MS-BNA4
Matrix: Water
Calibration Dates: 4/19/11 14:56 4/19/11 18:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	20	0.7940618	40	0.7352884	50	0.7827219						
Acenaphthylene	20	1.141889	40	1.048448	50	1.091477						
Anthracene	20	1.117011	40	1.128844	50	1.128459						
Benzo(a)anthracene	20	0.7657045	40	0.891703	50	0.7603992						
Benzo(a)pyrene	20	1.100458	40	1.064936	50	1.103355						
Benzo(b)fluoranthene	20	1.537608	40	1.633929	50	1.471212						
Benzo(g,h,i)perylene	20	0.8566147	40	0.7527658	50	0.8332651						
Benzo(k)fluoranthene	20	1.354037	40	1.250454	50	1.26906						
Chrysene	20	0.6823315	40	0.8250514	50	0.6874646						
Dibenz(a,h)anthracene	20	0.8197604	40	0.7276827	50	0.8426935						
Fluoranthene	20	1.100363	40	1.116813	50	1.129477						
Fluorene	20	0.8177829	40	0.7918825	50	0.7874121						
2-Fluorobiphenyl	20	0.8244022	40	0.7671239	50	0.8084073						
Indeno(1,2,3-cd)pyrene	20	1.000876	40	0.9043518	50	1.038719						
1-Methylnaphthalene	20	0.7692007	40	0.7167983	50	0.7352023						
2-Methylnaphthalene	20	0.7931505	40	0.7308007	50	0.7831935						
Naphthalene	20	1.210287	40	1.118559	50	1.125103						
Phenanthrene	20	1.129587	40	1.117307	50	1.135743						
Pyrene	20	1.104729	40	1.163501	50	1.105306						
Terphenyl-d14	20	0.7217151	40	0.7460979	50	0.6818047						
2,4,6-Tribromophenol	40	0.1625257	80	0.1663055	100	0.1695583						

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1107021
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Mayport CTO JM33 2010
Calibration: 1112002
Instrument: MS-BNA4
Matrix: Water
Calibration Dates: 4/19/11 14:56 4/19/11 18:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8172941	6.002518	7.944333	0.1047021			CCC (30)	
Acenaphthylene	1.207785	7.808994	7.734889	0.1182522			15	
Anthracene	1.161613	5.505861	9.805778	0.100823			15	
Benzo(a)anthracene	0.7794695	6.254565	12.93533	6.502969E-02			15	
Benzo(a)pyrene	1.060401	3.200109	14.769	4.143849E-02			CCC (30)	
Benzo(b)fluoranthene	1.376623	14.1471	14.326	7.995191E-02			15	
Benzo(g,h,i)perylene	0.8408092	6.210629	16.70156	7.861425E-02			15	
Benzo(k)fluoranthene	1.327054	4.862521	14.36322	0.079314			15	
Chrysene	0.7510425	7.301878	12.98111	7.297783E-02			15	
Dibenz(a,h)anthracene	0.7885715	9.963425	16.36178	4.777576E-02			15	
Fluoranthene	1.110642	2.363902	11.19311	0.0831072			CCC (30)	
Fluorene	0.806718	3.496377	8.576445	9.781169E-02			15	
2-Fluorobiphenyl	0.8530656	6.095572	7.112	8.858856E-02			15	
Indeno(1,2,3-cd)pyrene	0.9694231	7.8043	16.34633	6.789173E-02			15	
1-Methylnaphthalene	0.8159287	7.985947	6.773	9.488666E-02			15	
2-Methylnaphthalene	0.8312967	6.802917	6.660333	0.1047284			15	
Naphthalene	1.267467	7.448697	5.839111	9.533926E-02			15	
Phenanthrene	1.148831	2.40557	9.740667	0.1040327			15	
Pyrene	1.116922	2.023077	11.46378	7.377866E-02			15	
Terphenyl-d14	0.6997344	3.349731	11.68256	6.766915E-02			15	
2,4,6-Tribromophenol	0.1551379	13.70301	8.878286	0.1225255			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1112002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/19/11 00:00
Sequence:	1D11106	Injection Date:	04/19/11
Lab Sample ID:	1D11106-ICV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.145	0.8172941	0.8409406		2.9	20
Acenaphthylene	A	5.000	5.694	1.207785	1.375521		13.9	20
Anthracene	A	5.000	5.601	1.161613	1.301226		12.0	20
Benzo(a)anthracene	A	5.000	4.940	0.7794695	0.7701215		-1.2	20
Benzo(a)pyrene	A	5.000	5.489	1.060401	1.16413		9.8	20
Benzo(b)fluoranthene	A	5.000	5.261	1.376623	1.448551		5.2	20
Benzo(g,h,i)perylene	A	5.000	5.469	0.8408092	0.9196673		9.4	20
Benzo(k)fluoranthene	A	5.000	5.499	1.327054	1.459622		10.0	20
Chrysene	A	5.000	5.270	0.7510425	0.7915565		5.4	20
Dibenz(a,h)anthracene	A	5.000	5.291	0.7885715	0.8344072		5.8	20
Fluoranthene	A	5.000	5.358	1.110642	1.190233		7.2	20
Fluorene	A	5.000	5.368	0.806718	0.866153		7.4	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.582	0.9694231	1.082169		11.6	20
1-Methylnaphthalene	A	5.000	5.107	0.8159287	0.8334349		2.1	20
2-Methylnaphthalene	A	5.000	5.373	0.8312967	0.8933577		7.5	20
Naphthalene	A	5.000	5.542	1.267467	1.404988		10.9	20
Phenanthrene	A	5.000	5.465	1.148831	1.255674		9.3	20
Pyrene	A	5.000	5.443	1.116922	1.21582		8.9	20
2-Fluorobiphenyl	A	5.000	5.807	0.8530656	0.9907614		16.1	20
Terphenyl-d14	A	5.000	5.562	0.6997344	0.7783563		11.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1112002
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/19/11 00:00
Sequence:	1G20704	Injection Date:	07/24/11
Lab Sample ID:	1G20704-CCV1	Injection Time:	23:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	5.903	0.8172941	0.9649682		18.1	20	
Acenaphthylene	A	5.000	5.600	1.207785	1.352643		12.0	20	
Anthracene	A	5.000	4.818	1.161613	1.119424		-3.6	20	
Benzo(a)anthracene	A	5.000	4.100	0.7794695	0.6392068		-18.0	20	
Benzo(a)pyrene	A	5.000	4.978	1.060401	1.055685		-0.4	20	
Benzo(b)fluoranthene	A	5.000	5.163	1.376623	1.421615		3.3	20	
Benzo(g,h,i)perylene	A	5.000	4.684	0.8408092	0.7877447		-6.3	20	
Benzo(k)fluoranthene	A	5.000	5.028	1.327054	1.334484		0.6	20	
Chrysene	A	5.000	4.288	0.7510425	0.6440858		-14.2	20	
Dibenz(a,h)anthracene	A	5.000	4.326	0.7885715	0.6823195		-13.5	20	
Fluoranthene	A	5.000	5.027	1.110642	1.11673		0.5	20	
Fluorene	A	5.000	5.676	0.806718	0.9157731		13.5	20	
Indeno(1,2,3-cd)pyrene	A	5.000	5.060	0.9694231	0.9810688		1.2	20	
1-Methylnaphthalene	A	5.000	5.519	0.8159287	0.9006756		10.4	20	
2-Methylnaphthalene	A	5.000	5.455	0.8312967	0.9069365		9.1	20	
Naphthalene	A	5.000	5.889	1.267467	1.492742		17.8	20	
Phenanthrene	A	5.000	5.095	1.148831	1.17078		1.9	20	
Pyrene	A	5.000	4.951	1.116922	1.106082		-1.0	20	
2-Fluorobiphenyl	A	5.000	6.040	0.8530656	1.030529		20.8	20	*
Terphenyl-d14	A	5.000	4.572	0.6997344	0.6398297		-8.6	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1112002
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/19/11 00:00
Sequence:	1G20711	Injection Date:	07/26/11
Lab Sample ID:	1G20711-CCV1	Injection Time:	02:27

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.434	0.8172941	0.8883353		8.7	20
Acenaphthylene	A	5.000	5.326	1.207785	1.28665		6.5	20
Anthracene	A	5.000	5.025	1.161613	1.167462		0.5	20
Benzo(a)anthracene	A	5.000	5.276	0.7794695	0.8224801		5.5	20
Benzo(a)pyrene	A	5.000	5.125	1.060401	1.086975		2.5	20
Benzo(b)fluoranthene	A	5.000	4.496	1.376623	1.237821		-10.1	20
Benzo(g,h,i)perylene	A	5.000	5.330	0.8408092	0.8962696		6.6	20
Benzo(k)fluoranthene	A	5.000	4.888	1.327054	1.297349		-2.2	20
Chrysene	A	5.000	5.277	0.7510425	0.7926328		5.5	20
Dibenz(a,h)anthracene	A	5.000	5.419	0.7885715	0.8547039		8.4	20
Fluoranthene	A	5.000	5.225	1.110642	1.160683		4.5	20
Fluorene	A	5.000	5.405	0.806718	0.8721292		8.1	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.568	0.9694231	1.079625		11.4	20
1-Methylnaphthalene	A	5.000	5.050	0.8159287	0.8241819		1.0	20
2-Methylnaphthalene	A	5.000	5.240	0.8312967	0.8712027		4.8	20
Naphthalene	A	5.000	5.484	1.267467	1.390221		9.7	20
Phenanthrene	A	5.000	5.139	1.148831	1.180879		2.8	20
Pyrene	A	5.000	5.108	1.116922	1.140956		2.2	20
2-Fluorobiphenyl	A	5.000	5.707	0.8530656	0.9736728		14.1	20
Terphenyl-d14	A	5.000	5.115	0.6997344	0.7158404		2.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1112002
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/19/11 00:00
Sequence:	1G20819	Injection Date:	07/26/11
Lab Sample ID:	1G20819-CCV1	Injection Time:	16:22

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	5.638	0.8172941	0.9215155		12.8	20	
Acenaphthylene	A	5.000	5.585	1.207785	1.34913		11.7	20	
Anthracene	A	5.000	5.258	1.161613	1.221475		5.2	20	
Benzo(a)anthracene	A	5.000	5.735	0.7794695	0.8940019		14.7	20	
Benzo(a)pyrene	A	5.000	5.080	1.060401	1.077467		1.6	20	
Benzo(b)fluoranthene	A	5.000	4.585	1.376623	1.262332		-8.3	20	
Benzo(g,h,i)perylene	A	5.000	6.329	0.8408092	1.064348		26.6	20	*
Benzo(k)fluoranthene	A	5.000	4.621	1.327054	1.226574		-7.6	20	
Chrysene	A	5.000	5.918	0.7510425	0.8889293		18.4	20	
Dibenz(a,h)anthracene	A	5.000	6.422	0.7885715	1.012775		28.4	20	*
Fluoranthene	A	5.000	5.601	1.110642	1.244221		12.0	20	
Fluorene	A	5.000	5.674	0.806718	0.9155197		13.5	20	
Indeno(1,2,3-cd)pyrene	A	5.000	5.217	0.9694231	1.011491		4.3	20	
1-Methylnaphthalene	A	5.000	5.331	0.8159287	0.8699379		6.6	20	
2-Methylnaphthalene	A	5.000	5.441	0.8312967	0.9045775		8.8	20	
Naphthalene	A	5.000	5.630	1.267467	1.427202		12.6	20	
Phenanthrene	A	5.000	5.446	1.148831	1.25122		8.9	20	
Pyrene	A	5.000	5.609	1.116922	1.253042		12.2	20	
2-Fluorobiphenyl	A	5.000	5.812	0.8530656	0.9916009		16.2	20	
Terphenyl-d14	A	5.000	5.423	0.6997344	0.7589508		8.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1107021
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Mayport CTO JM33 2010
Instrument ID:	MS-BNA4	Calibration:	1112002
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/19/11 00:00
Sequence:	1G20904	Injection Date:	07/27/11
Lab Sample ID:	1G20904-CCV1	Injection Time:	04:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.621	0.8172941	0.9187782		12.4	20
Acenaphthylene	A	5.000	5.617	1.207785	1.356923		12.3	20
Anthracene	A	5.000	5.055	1.161613	1.174446		1.1	20
Benzo(a)anthracene	A	5.000	4.497	0.7794695	0.7010271		-10.1	20
Benzo(a)pyrene	A	5.000	5.248	1.060401	1.1129		5.0	20
Benzo(b)fluoranthene	A	5.000	4.825	1.376623	1.328572		-3.5	20
Benzo(g,h,i)perylene	A	5.000	4.842	0.8408092	0.8142124		-3.2	20
Benzo(k)fluoranthene	A	5.000	4.696	1.327054	1.246255		-6.1	20
Chrysene	A	5.000	4.419	0.7510425	0.6638357		-11.6	20
Dibenz(a,h)anthracene	A	5.000	4.895	0.7885715	0.771982		-2.1	20
Fluoranthene	A	5.000	5.235	1.110642	1.162852		4.7	20
Fluorene	A	5.000	5.611	0.806718	0.905289		12.2	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.041	0.9694231	0.7834883		-19.2	20
1-Methylnaphthalene	A	5.000	5.462	0.8159287	0.8912427		9.2	20
2-Methylnaphthalene	A	5.000	5.195	0.8312967	0.8637382		3.9	20
Naphthalene	A	5.000	5.783	1.267467	1.465965		15.7	20
Phenanthrene	A	5.000	5.134	1.148831	1.17976		2.7	20
Pyrene	A	5.000	5.349	1.116922	1.194838		7.0	20
2-Fluorobiphenyl	A	5.000	5.620	0.8530656	0.9587773		12.4	20
Terphenyl-d14	A	5.000	5.109	0.6997344	0.7149684		2.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G08020-BLK1 File ID: G08020B1.D

Sampled: Prepared: Analyzed: 07/25/11 02:23

Solids: Preparation: EXT_3546 Dilution:

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00167	0.00333	0.0133	U
208-96-8	Acenaphthylene		0.00167	0.00333	0.0133	U
120-12-7	Anthracene		0.00167	0.00333	0.0133	U
56-55-3	Benzo(a)anthracene	0.00249	0.00167	0.00333	0.0133	I
50-32-8	Benzo(a)pyrene	0.0113	0.00167	0.00333	0.0133	I
205-99-2	Benzo(b)fluoranthene	0.0139	0.00167	0.00333	0.0133	
191-24-2	Benzo(g,h,i)perylene	0.00872	0.00167	0.00333	0.0133	I
207-08-9	Benzo(k)fluoranthene	0.00807	0.00167	0.00333	0.0133	I
218-01-9	Chrysene	0.00303	0.00167	0.00333	0.0133	I
53-70-3	Dibenz(a,h)anthracene		0.00167	0.00333	0.0133	U
206-44-0	Fluoranthene	0.00265	0.00167	0.00333	0.0133	I
86-73-7	Fluorene		0.00167	0.00333	0.0133	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00167	0.00333	0.0133	U
90-12-0	1-Methylnaphthalene		0.00167	0.00333	0.0133	U
91-57-6	2-Methylnaphthalene		0.00167	0.00333	0.0133	U
91-20-3	Naphthalene		0.00167	0.00333	0.0133	U
85-01-8	Phenanthrene	0.00327	0.00167	0.00333	0.0133	I
129-00-0	Pyrene	0.00327	0.00167	0.00333	0.0133	I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	3.267	98.0	14 - 129	X
Terphenyl-d14	3.333	2.641	79.2	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G08020-BS1 File ID: G08020L1.D

Sampled: Prepared: Analyzed: 07/25/11 01:54

Solids: Preparation: EXT_3546 Dilution:

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.06515	0.00167	0.00333	0.0133	
208-96-8	Acenaphthylene	0.05009	0.00167	0.00333	0.0133	
120-12-7	Anthracene	0.05271	0.00167	0.00333	0.0133	
56-55-3	Benzo(a)anthracene	0.04757	0.00167	0.00333	0.0133	
50-32-8	Benzo(a)pyrene	0.05315	0.00167	0.00333	0.0133	
205-99-2	Benzo(b)fluoranthene	0.05110	0.00167	0.00333	0.0133	
191-24-2	Benzo(g,h,i)perylene	0.04893	0.00167	0.00333	0.0133	
207-08-9	Benzo(k)fluoranthene	0.06452	0.00167	0.00333	0.0133	
218-01-9	Chrysene	0.05033	0.00167	0.00333	0.0133	
53-70-3	Dibenz(a,h)anthracene	0.04851	0.00167	0.00333	0.0133	
206-44-0	Fluoranthene	0.06061	0.00167	0.00333	0.0133	
86-73-7	Fluorene	0.06124	0.00167	0.00333	0.0133	
193-39-5	Indeno(1,2,3-cd)pyrene	0.05815	0.00167	0.00333	0.0133	
90-12-0	1-Methylnaphthalene	0.06098	0.00167	0.00333	0.0133	
91-57-6	2-Methylnaphthalene	0.05952	0.00167	0.00333	0.0133	
91-20-3	Naphthalene	0.06363	0.00167	0.00333	0.0133	
85-01-8	Phenanthrene	0.06431	0.00167	0.00333	0.0133	
129-00-0	Pyrene	0.06024	0.00167	0.00333	0.0133	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	3.286	98.6	14 - 129	X
Terphenyl-d14	3.333	3.127	93.8	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G08020-MS1 File ID: 0702101M.D

Sampled: Prepared: Analyzed: 07/25/11 09:59

Solids: Preparation: EXT_3546 Dilution:

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.06020	0.00178	0.00355	0.0142	
208-96-8	Acenaphthylene	0.04788	0.00178	0.00355	0.0142	
120-12-7	Anthracene	0.05244	0.00178	0.00355	0.0142	
56-55-3	Benzo(a)anthracene	0.05285	0.00178	0.00355	0.0142	
50-32-8	Benzo(a)pyrene	0.06345	0.00178	0.00355	0.0142	
205-99-2	Benzo(b)fluoranthene	0.06636	0.00178	0.00355	0.0142	
191-24-2	Benzo(g,h,i)perylene	0.05422	0.00178	0.00355	0.0142	
207-08-9	Benzo(k)fluoranthene	0.07159	0.00178	0.00355	0.0142	
218-01-9	Chrysene	0.05347	0.00178	0.00355	0.0142	
53-70-3	Dibenz(a,h)anthracene	0.05605	0.00178	0.00355	0.0142	
206-44-0	Fluoranthene	0.07648	0.00178	0.00355	0.0142	
86-73-7	Fluorene	0.06394	0.00178	0.00355	0.0142	
193-39-5	Indeno(1,2,3-cd)pyrene	0.06769	0.00178	0.00355	0.0142	
90-12-0	1-Methylnaphthalene	0.05578	0.00178	0.00355	0.0142	
91-57-6	2-Methylnaphthalene	0.05563	0.00178	0.00355	0.0142	
91-20-3	Naphthalene	0.06204	0.00178	0.00355	0.0142	
85-01-8	Phenanthrene	0.07156	0.00178	0.00355	0.0142	
129-00-0	Pyrene	0.07033	0.00178	0.00355	0.0142	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.549	2.892	81.5	14 - 129	X
Terphenyl-d14	3.549	2.720	76.6	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G08020-MSD1 File ID: 0702101S.D

Sampled: Prepared: Analyzed: 07/25/11 10:27

Solids: Preparation: EXT_3546 Dilution:

Batch: 1G08020 Sequence: 1G20704 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.06580	0.00179	0.00357	0.0143	
208-96-8	Acenaphthylene	0.05408	0.00179	0.00357	0.0143	
120-12-7	Anthracene	0.05354	0.00179	0.00357	0.0143	
56-55-3	Benzo(a)anthracene	0.05717	0.00179	0.00357	0.0143	
50-32-8	Benzo(a)pyrene	0.05009	0.00179	0.00357	0.0143	
205-99-2	Benzo(b)fluoranthene	0.05787	0.00179	0.00357	0.0143	
191-24-2	Benzo(g,h,i)perylene	0.05622	0.00179	0.00357	0.0143	
207-08-9	Benzo(k)fluoranthene	0.05678	0.00179	0.00357	0.0143	
218-01-9	Chrysene	0.05826	0.00179	0.00357	0.0143	
53-70-3	Dibenz(a,h)anthracene	0.04869	0.00179	0.00357	0.0143	
206-44-0	Fluoranthene	0.07290	0.00179	0.00357	0.0143	
86-73-7	Fluorene	0.06680	0.00179	0.00357	0.0143	
193-39-5	Indeno(1,2,3-cd)pyrene	0.05550	0.00179	0.00357	0.0143	
90-12-0	1-Methylnaphthalene	0.05824	0.00179	0.00357	0.0143	
91-57-6	2-Methylnaphthalene	0.06145	0.00179	0.00357	0.0143	
91-20-3	Naphthalene	0.06704	0.00179	0.00357	0.0143	
85-01-8	Phenanthrene	0.07225	0.00179	0.00357	0.0143	
129-00-0	Pyrene	0.06608	0.00179	0.00357	0.0143	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.572	3.221	90.2	14 - 129	X
Terphenyl-d14	3.572	3.058	85.6	14 - 129	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G08021-BLK2 File ID: G08021B1.D

Sampled: Prepared: Analyzed: 07/26/11 17:26

Solids: Preparation: EXT_3546 Dilution:

Batch: 1G08021 Sequence: 1G20819 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.00167	0.00333	0.0133	U
208-96-8	Acenaphthylene		0.00167	0.00333	0.0133	U
120-12-7	Anthracene		0.00167	0.00333	0.0133	U
56-55-3	Benzo(a)anthracene		0.00167	0.00333	0.0133	U
50-32-8	Benzo(a)pyrene		0.00167	0.00333	0.0133	U
205-99-2	Benzo(b)fluoranthene		0.00167	0.00333	0.0133	U
191-24-2	Benzo(g,h,i)perylene		0.00167	0.00333	0.0133	X, U
207-08-9	Benzo(k)fluoranthene		0.00167	0.00333	0.0133	U
218-01-9	Chrysene		0.00167	0.00333	0.0133	U
53-70-3	Dibenz(a,h)anthracene		0.00167	0.00333	0.0133	X, U
206-44-0	Fluoranthene		0.00167	0.00333	0.0133	U
86-73-7	Fluorene		0.00167	0.00333	0.0133	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.00167	0.00333	0.0133	U
90-12-0	1-Methylnaphthalene		0.00167	0.00333	0.0133	U
91-57-6	2-Methylnaphthalene		0.00167	0.00333	0.0133	U
91-20-3	Naphthalene		0.00167	0.00333	0.0133	U
85-01-8	Phenanthrene	0.00382	0.00167	0.00333	0.0133	I
129-00-0	Pyrene		0.00167	0.00333	0.0133	U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.823	84.7	14 - 129	
Terphenyl-d14	3.333	2.291	68.7	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Matrix: Laboratory ID: 1G08021-BS2 File ID: G08021L1.D

Sampled: Prepared: Analyzed: 07/26/11 16:56

Solids: Preparation: EXT_3546 Dilution:

Batch: 1G08021 Sequence: 1G20819 Calibration: 1112002 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.03140	0.00167	0.00333	0.0133	
208-96-8	Acenaphthylene	0.02458	0.00167	0.00333	0.0133	
120-12-7	Anthracene	0.02605	0.00167	0.00333	0.0133	
56-55-3	Benzo(a)anthracene	0.02283	0.00167	0.00333	0.0133	
50-32-8	Benzo(a)pyrene	0.02420	0.00167	0.00333	0.0133	
205-99-2	Benzo(b)fluoranthene	0.02340	0.00167	0.00333	0.0133	
191-24-2	Benzo(g,h,i)perylene	0.03483	0.00167	0.00333	0.0133	X
207-08-9	Benzo(k)fluoranthene	0.02740	0.00167	0.00333	0.0133	
218-01-9	Chrysene	0.02085	0.00167	0.00333	0.0133	
53-70-3	Dibenz(a,h)anthracene	0.03301	0.00167	0.00333	0.0133	X
206-44-0	Fluoranthene	0.02634	0.00167	0.00333	0.0133	
86-73-7	Fluorene	0.03192	0.00167	0.00333	0.0133	
193-39-5	Indeno(1,2,3-cd)pyrene	0.02759	0.00167	0.00333	0.0133	
90-12-0	1-Methylnaphthalene	0.02822	0.00167	0.00333	0.0133	
91-57-6	2-Methylnaphthalene	0.02793	0.00167	0.00333	0.0133	
91-20-3	Naphthalene	0.03138	0.00167	0.00333	0.0133	
85-01-8	Phenanthrene	0.03146	0.00167	0.00333	0.0133	
129-00-0	Pyrene	0.02690	0.00167	0.00333	0.0133	

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.960	88.8	14 - 129	
Terphenyl-d14	3.333	2.593	77.8	14 - 129	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1107021

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Mayport CTO JM33 2010

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MPT-1343-SS12-20110701-02	07/01/11 09:15	07/02/11 09:00	07/12/11 11:00	11.11	14.00	07/25/11 02:52	12.66	40.00	
MPT-1343-SS13-20110701-02	07/01/11 09:30	07/02/11 09:00	07/12/11 11:00	11.10	14.00	07/25/11 03:21	12.68	40.00	
MPT-1343-SS14-20110701-0.5	07/01/11 09:33	07/02/11 09:00	07/12/11 11:00	11.10	14.00	07/26/11 09:38	13.94	40.00	
MPT-1343-SS15-20110701-0.5	07/01/11 09:35	07/02/11 09:00	07/12/11 11:00	11.10	14.00	07/25/11 03:50	12.70	40.00	
MPT-1343-SS16-20110701-0.5	07/01/11 09:40	07/02/11 09:00	07/12/11 11:00	11.10	14.00	07/25/11 08:33	12.90	40.00	
MPT-1343-SS17-20110701-0.5	07/01/11 09:45	07/02/11 09:00	07/12/11 11:00	11.09	14.00	07/26/11 10:36	13.98	40.00	
MPT-1343-SS18-20110701-4	07/01/11 10:00	07/02/11 09:00	07/12/11 11:00	11.08	14.00	07/25/11 04:18	12.72	40.00	
MPT-1343-SS18-20110701-4.5	07/01/11 10:20	07/02/11 09:00	07/12/11 11:00	11.07	14.00	07/25/11 04:46	12.74	40.00	
MPT-1343-SS18-20110701-0.5	07/01/11 10:35	07/02/11 09:00	07/12/11 11:00	11.06	14.00	07/25/11 09:01	12.92	40.00	
MPT-1343-SS18-20110701-2	07/01/11 10:45	07/02/11 09:00	07/12/11 11:00	11.05	14.00	07/25/11 05:14	12.76	40.00	
MPT-1343-SS19-20110701-0.5	07/01/11 11:00	07/02/11 09:00	07/12/11 11:00	11.04	14.00	07/26/11 11:05	14.00	40.00	
MPT-1343-SS19-20110701-2	07/01/11 11:05	07/02/11 09:00	07/12/11 11:00	11.04	14.00	07/25/11 05:43	12.78	40.00	
MPT-1343-SS19-20110701-4	07/01/11 11:15	07/02/11 09:00	07/12/11 11:00	11.03	14.00	07/25/11 06:11	12.80	40.00	
MPT-1343-SS19-20110701-4.5	07/01/11 11:30	07/02/11 09:00	07/12/11 11:00	11.02	14.00	07/25/11 06:39	12.82	40.00	
MPT-1343-SS20-20110701-0.5	07/01/11 11:40	07/02/11 09:00	07/12/11 11:00	11.01	14.00	07/25/11 09:30	12.94	40.00	
MPT-1343-SS20-20110701-2.0	07/01/11 11:45	07/02/11 09:00	07/12/11 11:00	11.01	14.00	07/25/11 07:08	12.84	40.00	
MPT-1343-SS20-20110701-4.0	07/01/11 12:10	07/02/11 09:00	07/12/11 11:00	10.99	14.00	07/25/11 07:36	12.86	40.00	
MPT-1343-SS20-20110701-4.5	07/01/11 12:20	07/02/11 09:00	07/12/11 11:00	10.99	14.00	07/26/11 11:34	14.02	40.00	
MPT-1343-SS21-20110701-0.5	07/01/11 12:30	07/02/11 09:00	07/12/11 11:00	10.98	14.00	07/26/11 10:07	13.96	40.00	
MPT-1343-SS21-20110701-2	07/01/11 12:45	07/02/11 09:00	07/12/11 11:00	10.97	14.00	07/25/11 08:04	12.88	40.00	
MPT-1343-SS21-20110701-4	07/01/11 13:10	07/02/11 09:00	07/11/11 12:45	10.02	14.00	07/27/11 05:35	15.70	40.00	
MPT-1343-SS21-20110701-4.5	07/01/11 13:30	07/02/11 09:00	07/11/11 12:45	10.01	14.00	07/27/11 06:03	15.72	40.00	

SUBCONTRACTED DATA

New England ACCUTEST LABORATORIES

08/03/11

Technical Report for

Empirical Labs

TETIFLJX:Mayport 1585

112G02801

Accutest Job Number: MC1781

Sampling Date: 07/01/11

Report to:

brichard@empirlabs.com

ATTN: Brian Richards

Total number of pages in report: **65**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

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Sections: 1 2 3 4 5 6

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Sample Results **6**
3.1: MC1781-1: MPT-1343-SS18-20110701-4 7
3.2: MC1781-2: MPT-1343-SS18-20110701-4.5 8
3.3: MC1781-3: MPT-1343-SS18-20110701-0.5 9
3.4: MC1781-4: MPT-1343-SS18-20110701-2.0 10
3.5: MC1781-5: MPT-1343-SS19-20110701-0.5 11
3.6: MC1781-6: MPT-1343-SS19-20110701-2.0 12
3.7: MC1781-7: MPT-1343-SS19-20110701-4.0 13
3.8: MC1781-8: MPT-1343-SS19-20110701-4.5 14
3.9: MC1781-9: MPT-1343-SS20-20110701-0.5 15
3.10: MC1781-10: MPT-1343-SS20-20110701-2.0 16
3.11: MC1781-11: MPT-1343-SS20-20110701-4.0 17
3.12: MC1781-12: MPT-1343-SS20-20110701-4.5 18
3.13: MC1781-13: MPT-1343-SS21-20110701-0.5 19
3.14: MC1781-14: MPT-1343-SS21-20110701-2 20
3.15: MC1781-15: MPT-1343-SS6-20110701-2 21
3.16: MC1781-16: MPT-1343-SS6-20110701-4 22
3.17: MC1781-17: MPT-1343-SS21-20110701-4 23
3.18: MC1781-18: MPT-1343-SS21-20110701-4.5 24
Section 4: Misc. Forms **25**
4.1: Chain of Custody 26
4.2: Sample Tracking Chronicle 29
4.3: Internal Chain of Custody 32
Section 5: GC Semi-volatiles - QC Data Summaries **34**
5.1: Method Blank Summary 35
5.2: Blank Spike/Blank Spike Duplicate Summary 36
5.3: Matrix Spike/Matrix Spike Duplicate Summary 37
5.4: Surrogate Recovery Summaries 38
5.5: GC Surrogate Retention Time Summaries 39
5.6: Initial and Continuing Calibration Summaries 42
Section 6: General Chemistry - QC Data Summaries **62**
6.1: Percent Solids Raw Data Summary 63

Sample Summary

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC1781-1	07/01/11	10:00	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-4
MC1781-2	07/01/11	10:20	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-4.5
MC1781-3	07/01/11	10:35	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-0.5
MC1781-4	07/01/11	10:45	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-2.0
MC1781-5	07/01/11	11:00	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-0.5
MC1781-6	07/01/11	11:05	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-2.0
MC1781-7	07/01/11	11:15	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-4.0
MC1781-8	07/01/11	11:30	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-4.5
MC1781-9	07/01/11	11:40	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-0.5
MC1781-10	07/01/11	11:45	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-2.0
MC1781-11	07/01/11	12:10	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-4.0
MC1781-12	07/01/11	12:20	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-4.5
MC1781-13	07/01/11	12:30	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-0.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC1781-14	07/01/11	12:45	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-2
MC1781-15	07/01/11	12:55	MP	07/08/11	SO	Soil	MPT-1343-SS6-20110701-2
MC1781-16	07/01/11	13:00	MP	07/08/11	SO	Soil	MPT-1343-SS6-20110701-4
MC1781-17	07/01/11	13:10	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-4
MC1781-18	07/01/11	13:30	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-4.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Empirical Labs	**Job No**	MC1781
Site:	TETIFLJX:Mayport 1585	**Report Date**	7/26/2011 4:33:41 PM

18 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 07/01/2011 and were received at Accutest on 07/08/2011 properly preserved, at 1.5 Deg. C and intact. These Samples received an Accutest job number of MC1781. 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.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix SO **Batch ID:** OP25508

- 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(s) MC1781-2MS, MC1781-2MSD were used as the QC samples indicated.
- MC1781-12, 16 for o-Terphenyl: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- MC1781-11 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- OP25508-BS/BSD for C11-C22 Aromatics (Unadj.): Aromatic breakthrough (naphthalene and/or 2-methylnaphthalene) exceeded 5% method limit.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO **Batch ID:** GN35454

- Sample(s) MC1781-2DUP were used as the QC samples for Solids, Percent.

Matrix SO **Batch ID:** GN35471

- Sample(s) MC1781-7DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC1781).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-4		
Lab Sample ID:	MC1781-1	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	79.5
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6089.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	22000 U	22000	22000	ug/kg	
	C9-C18 Aliphatics	11000 U	11000	11000	ug/kg	
	C19-C36 Aliphatics	11000 U	11000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%
321-60-8	2-Fluorobiphenyl	85%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	53%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-4.5		
Lab Sample ID:	MC1781-2	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	88.5
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6088.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	23800	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	19600	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	81%		40-140%
580-13-2	2-Bromonaphthalene	66%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-0.5		
Lab Sample ID:	MC1781-3	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	75.9
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6090.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	23000 U	23000	23000	ug/kg	
	C9-C18 Aliphatics	11000 U	11000	11000	ug/kg	
	C19-C36 Aliphatics	11000 U	11000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	51%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-2.0		
Lab Sample ID:	MC1781-4	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	89.8
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6091.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	19000 U	19000	19000	ug/kg	
	C9-C18 Aliphatics	9700 U	9700	9700	ug/kg	
	C19-C36 Aliphatics	15800	9700	9700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
580-13-2	2-Bromonaphthalene	67%		40-140%
3386-33-2	1-Chlorooctadecane	52%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-0.5		
Lab Sample ID:	MC1781-5	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	88.9
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6093.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	78%		40-140%
580-13-2	2-Bromonaphthalene	68%		40-140%
3386-33-2	1-Chlorooctadecane	50%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-2.0		
Lab Sample ID:	MC1781-6	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	89.3
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6094.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%
580-13-2	2-Bromonaphthalene	71%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-4.0		
Lab Sample ID:	MC1781-7	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	90.6
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6095.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.8 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	19000 U	19000	19000	ug/kg	
	C9-C18 Aliphatics	9300 U	9300	9300	ug/kg	
	C19-C36 Aliphatics	9300 U	9300	9300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	50%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-4.5		
Lab Sample ID:	MC1781-8	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	89.4
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6096.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	55%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS20-20110701-0.5		
Lab Sample ID:	MC1781-9	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	91.3
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6097.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.4 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	24200	19000	19000	ug/kg	
	C9-C18 Aliphatics	16000	9600	9600	ug/kg	
	C19-C36 Aliphatics	29000	9600	9600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		40-140%
321-60-8	2-Fluorobiphenyl	77%		40-140%
580-13-2	2-Bromonaphthalene	67%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS20-20110701-2.0
Lab Sample ID: MC1781-10
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 82.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6098.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.6 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	59300	21000	21000	ug/kg	
	C9-C18 Aliphatics	107000	11000	11000	ug/kg	
	C19-C36 Aliphatics	91600	11000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS20-20110701-4.0		
Lab Sample ID:	MC1781-11	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	64.4
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6099.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	113000	27000	27000	ug/kg	
	C9-C18 Aliphatics	105000	13000	13000	ug/kg	
	C19-C36 Aliphatics	29500	13000	13000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	34% [a]		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS20-20110701-4.5
Lab Sample ID: MC1781-12
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 83.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ4293.D	1	07/25/11	AL	07/11/11	OP25508	GBJ177
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	1190000	21000	21000	ug/kg	
	C9-C18 Aliphatics	3180000	10000	10000	ug/kg	
	C19-C36 Aliphatics	590000	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	203% [a]		40-140%
321-60-8	2-Fluorobiphenyl	101%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%
3386-33-2	1-Chlorooctadecane	71%		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-0.5
Lab Sample ID: MC1781-13
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 88.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6101.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	19700	19000	19000	ug/kg	
	C9-C18 Aliphatics	9900	9700	9700	ug/kg	
	C19-C36 Aliphatics	25800	9700	9700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		40-140%
321-60-8	2-Fluorobiphenyl	76%		40-140%
580-13-2	2-Bromonaphthalene	72%		40-140%
3386-33-2	1-Chlorooctadecane	54%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-2
Lab Sample ID: MC1781-14
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 85.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6102.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	21000 U	21000	21000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
580-13-2	2-Bromonaphthalene	70%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS6-20110701-2
Lab Sample ID: MC1781-15
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 86.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6104.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.9 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	12100	9800	9800	ug/kg	
	C19-C36 Aliphatics	9800 U	9800	9800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	74%		40-140%
580-13-2	2-Bromonaphthalene	69%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS6-20110701-4		
Lab Sample ID:	MC1781-16	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	87.3
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ4294.D	1	07/25/11	AL	07/11/11	OP25508	GBJ177
Run #2							

	Initial Weight	Final Volume
Run #1	11.4 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	1400000	20000	20000	ug/kg	
	C9-C18 Aliphatics	3710000	10000	10000	ug/kg	
	C19-C36 Aliphatics	623000	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	207% [a]		40-140%
321-60-8	2-Fluorobiphenyl	107%		40-140%
580-13-2	2-Bromonaphthalene	96%		40-140%
3386-33-2	1-Chlorooctadecane	70%		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-4
Lab Sample ID: MC1781-17
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 74.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6106.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	536000	24000	24000	ug/kg	
	C9-C18 Aliphatics	913000	12000	12000	ug/kg	
	C19-C36 Aliphatics	185000	12000	12000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	43%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%
580-13-2	2-Bromonaphthalene	71%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-4.5
Lab Sample ID: MC1781-18
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 83.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6107.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.8 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	498000	20000	20000	ug/kg	
	C9-C18 Aliphatics	879000	10000	10000	ug/kg	
	C19-C36 Aliphatics	183000	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		40-140%
321-60-8	2-Fluorobiphenyl	85%		40-140%
580-13-2	2-Bromonaphthalene	61%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (FL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

TETRA TECH NUS, INC. (MAYPORT) CHAIN OF CUSTODY | NUMBER № 2228 | ~~F83998~~ M-M OF 07-07-11 MC1781

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02801	Site 1343	Mark Peterson	904 334-7260	Accutest / Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: David Siefken	PHONE NUMBER: 904-334-7260	ADDRESS: 4405 Vineland Rd CT 15
		CARRIER/WAYBILL NUMBER		CITY, STATE: Orlando FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)
PRESERVATIVE USED

	DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TRPH Fraction (MADEP)								COMMENTS
1	7/1	1000	MPT-1343-SS18-20110701	-4		4	SO		1	x		-1						Cool to 4°C
2		1020	MPT-1343-SS18-20110701	-4.5		4.5			1	x		-2						
3		1035	MPT-1343-SS18-20110701	-0.5		0.5			1	x		-3						
4		1045	MPT-1343-SS18-20110701	-2.0		2.0			1	x		-4						
5		1100	MPT-1343-SS19-20110701	-0.5		0.5			1	x		-5						
6		1105	MPT-1343-SS19-20110701	-2.0		2			1	x		-6						
7		1115	MPT-1343-SS19-20110701	-4.0		4			1	x		-7						
8		1130	MPT-1343-SS19-20110701	-4.5		4.5			1	x		-8						
9		1140	MPT-1343-SS20-20110701	-0.5		0.5			1	x		-9						
10		1145	MPT-1343-SS20-20110701	-2.0		2.0			1	x		-10						
11		1210	MPT-1343-SS20-20110701	-4.0		4.0			1	x		-11						
12		1220	MPT-1343-SS20-20110701	-4.5		4.5			1	x		-12						12F

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	7-5-11	1221	1. RECEIVED BY	07/05/11	1221
2. RELINQUISHED BY	07/05/11	1555	2. RECEIVED BY	070611	0800
3. RELINQUISHED BY FEDEX	7/8/11	12:50	3. RECEIVED BY	7/8/11	12:50

COMMENTS: 3-4 rec 1.5°

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

4.1
4

MC1781: Chain of Custody
Page 1 of 3

TETRA TECH NUS, INC. (Mayport) CHAIN OF CUSTODY | NUMBER № 2229 ~~F8199~~ M-M 07-07-11 OF MC1781

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112g02801	Site 1343	Mark Peterson	904-334-7260	Accutest/Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		David Siefken	904-334-7260	4405 Vineland Rd CT-15
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Orlando, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)
PRESERVATIVE USED

	DATE 2011 YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TRPH-Fraction (MADEP)								COMMENTS
13	7/1	1230	MPT-1343-SS21-20110701-0.5			0.5	SO		1	X		-13						Cool to 4°C
14		1245	MPT-1343-SS21-20110701-2			2			1	X		-14						
15		1255	MPT-1343-SS6-20110701-2			2			1	X		-15						
16		1300	MPT-1343-SS6-20110701-4			4			1	X		-16						
17		1310	MPT-1343-SS21-20110701 4			4			1	X		-17						
18		1330	MPT-1343-SS21-20110701 4.5			4.5			1	X		-18						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	7-5-11	1221	1. RECEIVED BY [signature]	07/05/11	1221
2. RELINQUISHED BY	07/05/11	1555	2. RECEIVED BY [signature] Alex	07/06/11	0800
3. RELINQUISHED BY FEDER	7/8/11	12:50	3. RECEIVED BY [signature]	7/8/11	12:50

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 3.4 rac 1.5°

4/02R
FORM NO. TtNUS-001

4.1 4

MC1781: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC1781 **Client:** ELTNN **Immediate Client Services Action Required:** No

Date / Time Received: 7/8/2011 **Delivery Method:** **Client Service Action Required at Login:** No

Project: MAYPORT 1343 **No. Coolers:** 1 **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC1781: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC1781-1 Collected: 01-JUL-11 10:00 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-4						
MC1781-1	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-1	MADEP EPH REV 1.1	21-JUL-11 22:52	AL	11-JUL-11	AJ	BMAEPHR
MC1781-2 Collected: 01-JUL-11 10:20 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-4.5						
MC1781-2	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-2	MADEP EPH REV 1.1	21-JUL-11 22:15	AL	11-JUL-11	AJ	BMAEPHR
MC1781-3 Collected: 01-JUL-11 10:35 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-0.5						
MC1781-3	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-3	MADEP EPH REV 1.1	21-JUL-11 23:30	AL	11-JUL-11	AJ	BMAEPHR
MC1781-4 Collected: 01-JUL-11 10:45 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-2.0						
MC1781-4	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-4	MADEP EPH REV 1.1	22-JUL-11 00:08	AL	11-JUL-11	AJ	BMAEPHR
MC1781-5 Collected: 01-JUL-11 11:00 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-0.5						
MC1781-5	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-5	MADEP EPH REV 1.1	22-JUL-11 01:23	AL	11-JUL-11	AJ	BMAEPHR
MC1781-6 Collected: 01-JUL-11 11:05 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-2.0						
MC1781-6	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-6	MADEP EPH REV 1.1	22-JUL-11 02:01	AL	11-JUL-11	AJ	BMAEPHR
MC1781-7 Collected: 01-JUL-11 11:15 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-4.0						
MC1781-7	SM21 2540 B MOD.	12-JUL-11	CF			%SOL

Internal Sample Tracking Chronicle

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC1781-7	MADEP EPH REV 1.1	22-JUL-11 02:38	AL	11-JUL-11	AJ	BMAEPHR
MC1781-8	Collected: 01-JUL-11 11:30 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-4.5						
MC1781-8	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-8	MADEP EPH REV 1.1	22-JUL-11 03:16	AL	11-JUL-11	AJ	BMAEPHR
MC1781-9	Collected: 01-JUL-11 11:40 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-0.5						
MC1781-9	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-9	MADEP EPH REV 1.1	22-JUL-11 03:53	AL	11-JUL-11	AJ	BMAEPHR
MC1781-10	Collected: 01-JUL-11 11:45 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-2.0						
MC1781-10	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-10	MADEP EPH REV 1.1	22-JUL-11 04:31	AL	11-JUL-11	AJ	BMAEPHR
MC1781-11	Collected: 01-JUL-11 12:10 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-4.0						
MC1781-11	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-11	MADEP EPH REV 1.1	22-JUL-11 05:08	AL	11-JUL-11	AJ	BMAEPHR
MC1781-12	Collected: 01-JUL-11 12:20 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-4.5						
MC1781-12	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-12	MADEP EPH REV 1.1	25-JUL-11 22:01	AL	11-JUL-11	AJ	BMAEPHR
MC1781-13	Collected: 01-JUL-11 12:30 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-0.5						
MC1781-13	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-13	MADEP EPH REV 1.1	22-JUL-11 06:24	AL	11-JUL-11	AJ	BMAEPHR

Internal Sample Tracking Chronicle

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC1781-14 Collected: 01-JUL-11 12:45 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-2						
MC1781-14	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-14	MADEP EPH REV 1.1	22-JUL-11 07:01	AL	11-JUL-11	AJ	BMAEPHR
MC1781-15 Collected: 01-JUL-11 12:55 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS6-20110701-2						
MC1781-15	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-15	MADEP EPH REV 1.1	22-JUL-11 08:17	AL	11-JUL-11	AJ	BMAEPHR
MC1781-16 Collected: 01-JUL-11 13:00 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS6-20110701-4						
MC1781-16	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-16	MADEP EPH REV 1.1	25-JUL-11 22:39	AL	11-JUL-11	AJ	BMAEPHR
MC1781-17 Collected: 01-JUL-11 13:10 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-4						
MC1781-17	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-17	MADEP EPH REV 1.1	22-JUL-11 09:34	AL	11-JUL-11	AJ	BMAEPHR
MC1781-18 Collected: 01-JUL-11 13:30 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-4.5						
MC1781-18	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-18	MADEP EPH REV 1.1	22-JUL-11 10:12	AL	11-JUL-11	AJ	BMAEPHR

Accutest Internal Chain of Custody

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585
Received: 07/08/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC1781-1.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-1.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-1.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-1.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-2.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-2.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-2.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-2.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-3.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-3.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-3.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-3.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-4.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-4.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-4.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-4.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-5.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-5.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-5.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-5.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-6.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-6.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-6.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-6.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-7.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-7.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-7.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-7.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-8.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-8.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-8.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-8.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-9.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-9.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-9.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-9.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage

Accutest Internal Chain of Custody

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585
Received: 07/08/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC1781-10.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-10.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-10.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-10.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-11.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-11.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-11.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-11.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-12.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-12.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-12.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-12.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-13.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-13.1	Michael Rolo	Walk In Ref #9	07/12/11 15:04	Return to Storage
MC1781-14.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-14.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-14.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-14.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-15.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-15.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-15.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-15.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-16.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-16.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-16.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-16.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-17.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-17.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-17.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-17.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-18.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-18.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-18.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-18.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25508-MB	BI6083.D	1	07/21/11	AL	07/11/11	OP25508	GBI266

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC1781-1, MC1781-2, MC1781-3, MC1781-4, MC1781-5, MC1781-6, MC1781-7, MC1781-8, MC1781-9, MC1781-10, MC1781-11, MC1781-12, MC1781-13, MC1781-14, MC1781-15, MC1781-16, MC1781-17, MC1781-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	17000	17000	ug/kg	
	C9-C18 Aliphatics	ND	8300	8300	ug/kg	
	C19-C36 Aliphatics	ND	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	56%	40-140%
321-60-8	2-Fluorobiphenyl	78%	40-140%
580-13-2	2-Bromonaphthalene	62%	40-140%
3386-33-2	1-Chlorooctadecane	49%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25508-BS	BI6084.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
OP25508-BSD	BI6085.D	1	07/21/11	AL	07/11/11	OP25508	GBI266

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC1781-1, MC1781-2, MC1781-3, MC1781-4, MC1781-5, MC1781-6, MC1781-7, MC1781-8, MC1781-9, MC1781-10, MC1781-11, MC1781-12, MC1781-13, MC1781-14, MC1781-15, MC1781-16, MC1781-17, MC1781-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	34200	24500	72 [a]	29100	82 [a]	17	40-140/25
	C9-C18 Aliphatics	12800	6500	50	7100	54	9	40-140/25
	C19-C36 Aliphatics	17100	9350	54	10500	60	12	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	53%	61%	40-140%
321-60-8	2-Fluorobiphenyl	77%	81%	40-140%
580-13-2	2-Bromonaphthalene	69%	69%	40-140%
3386-33-2	1-Chlorooctadecane	44%	49%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP25508-BS	2-Methylnaphthalene	965	40.6	4.0%	5.0
OP25508-BS	Naphthalene	947	79.2	7.7%*	5.0
OP25508-BSD	2-Methylnaphthalene	1170	45.8	3.8%	5.0
OP25508-BSD	Naphthalene	1130	92.2	7.5%*	5.0

(a) Aromatic breakthrough (naphthalene and/or 2-methylnaphthalene) exceeded 5% method limit.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25508-MS	BI6086.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
OP25508-MSD	BI6087.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
MC1781-2	BI6088.D	1	07/21/11	AL	07/11/11	OP25508	GBI266

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC1781-1, MC1781-2, MC1781-3, MC1781-4, MC1781-5, MC1781-6, MC1781-7, MC1781-8, MC1781-9, MC1781-10, MC1781-11, MC1781-12, MC1781-13, MC1781-14, MC1781-15, MC1781-16, MC1781-17, MC1781-18

CAS No.	Compound	MC1781-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	23800		40300	46900	58	58500	86	22	40-140/25
	C9-C18 Aliphatics	10000	U	15100	15400	102	17300	114	12	40-140/25
	C19-C36 Aliphatics	19600		20100	39500	98	33500	70	16	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC1781-2	Limits
84-15-1	o-Terphenyl	63%	66%	62%	40-140%
321-60-8	2-Fluorobiphenyl	78%	77%	81%	40-140%
580-13-2	2-Bromonaphthalene	65%	77%	66%	40-140%
3386-33-2	1-Chlorooctadecane	48%	41%	47%	40-140%

Semivolatile Surrogate Recovery Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Method: MADEP EPH REV 1.1 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]	S4 [b]
MC1781-1	BI6089.D	64.0	85.0	75.0	53.0
MC1781-2	BI6088.D	62.0	81.0	66.0	47.0
MC1781-3	BI6090.D	62.0	80.0	75.0	51.0
MC1781-4	BI6091.D	60.0	84.0	67.0	52.0
MC1781-5	BI6093.D	63.0	78.0	68.0	50.0
MC1781-6	BI6094.D	60.0	79.0	71.0	47.0
MC1781-7	BI6095.D	63.0	86.0	75.0	50.0
MC1781-8	BI6096.D	67.0	84.0	75.0	55.0
MC1781-9	BI6097.D	67.0	77.0	67.0	48.0
MC1781-10	BI6098.D	71.0	80.0	75.0	48.0
MC1781-11	BI6099.D	56.0	79.0	75.0	34.0* [c]
MC1781-12	BJ4293.D	203.0* [c]	101.0	89.0	71.0
MC1781-13	BI6101.D	66.0	76.0	72.0	54.0
MC1781-14	BI6102.D	60.0	80.0	70.0	47.0
MC1781-15	BI6104.D	62.0	74.0	69.0	45.0
MC1781-16	BJ4294.D	207.0* [c]	107.0	96.0	70.0
MC1781-17	BI6106.D	43.0	89.0	71.0	43.0
MC1781-18	BI6107.D	56.0	85.0	61.0	45.0
OP25508-BS	BI6084.D	53.0	77.0	69.0	44.0
OP25508-BSD	BI6085.D	61.0	81.0	69.0	49.0
OP25508-MB	BI6083.D	56.0	78.0	62.0	49.0
OP25508-MS	BI6086.D	63.0	78.0	65.0	48.0
OP25508-MSD	BI6087.D	66.0	77.0	77.0	41.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 2-Bromonaphthalene	40-140%
S4 = 1-Chlorooctadecane	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to possible matrix interference. Confirmed by refractionation.

GC Surrogate Retention Time Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Check Std: GBI266-CC264
Lab File ID: BI6092.D
Instrument ID: GCBI
Injection Date: 07/22/11
Injection Time: 00:46
Method: MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	12.68	7.88	8.89	15.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC1781-5	BI6093.D	07/22/11	01:23	12.68	7.88	8.89	15.63
MC1781-6	BI6094.D	07/22/11	02:01	12.68	7.88	8.89	15.63
MC1781-7	BI6095.D	07/22/11	02:38	12.68	7.88	8.89	15.63
MC1781-8	BI6096.D	07/22/11	03:16	12.68	7.88	8.89	15.63
MC1781-9	BI6097.D	07/22/11	03:53	12.68	7.88	8.89	15.63
MC1781-10	BI6098.D	07/22/11	04:31	12.68	7.88	8.89	15.63
MC1781-11	BI6099.D	07/22/11	05:08	12.68	7.88	8.89	15.63
MC1781-13	BI6101.D	07/22/11	06:24	12.68	7.88	8.89	15.63
MC1781-14	BI6102.D	07/22/11	07:01	12.68	7.88	8.89	15.63

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Check Std: GBI266-CC264
Lab File ID: BI6103.D
Instrument ID: GCBI
Injection Date: 07/22/11
Injection Time: 07:39
Method: MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	12.68	7.88	8.89	15.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC1781-15	BI6104.D	07/22/11	08:17	12.68	7.88	8.89	15.63
MC1781-17	BI6106.D	07/22/11	09:34	12.68	7.88	8.90	15.63
MC1781-18	BI6107.D	07/22/11	10:12	12.67	7.88	8.90	15.63

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Check Std:	GBJ177-CC173	**Injection Date:**	07/25/11
Lab File ID:	BJ4289.D	**Injection Time:**	19:26
Instrument ID:	GCBJ	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	13.38	8.58	9.61	14.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC1781-12	BJ4293.D	07/25/11	22:01	13.37	8.58	9.62	14.90
MC1781-16	BJ4294.D	07/25/11	22:39	13.37	8.58	9.63	14.90
ZZZZZZ	BJ4298.D	07/26/11	01:10	13.37	8.57	9.61	14.87

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICC264
Lab FileID: BI6036.D

Response Factor Report magcbi

Method : C:\msdchem\1\METHODS\EPH071911w.M (RTE Integrator)
Title : BMAEPH-WORKING
Last Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration

Calibration Files
1 =bi6034.D 2 =bi6035.D 3 =bi6036.D 4 =bi6037.D
5 =bi6038.D 6 =bi6039.D 7 =bi6040.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	1.092							1.092 E5	0.00
2) naphthalene	1.132	1.081	1.131	1.149	1.294	1.225	1.219	1.176 E5	6.19
3) 2-methylnaphthale	1.093	1.040	1.084	1.090	1.193	1.099	1.064	1.095 E5	4.37
4)s 2-fluorobiphenyl	0.937	0.891	0.929	0.933	1.019	0.925	0.895	0.933 E5	4.51
5) acenaphthylene	1.087	1.038	1.084	1.090	1.188	1.077	1.048	1.088 E5	4.49
6)s 2-bromonaphthalen	6.363	5.998	6.216	6.139	6.464	5.693	5.583	6.065 E4	5.43
7) acenaphthene	1.109	1.058	1.100	1.115	1.237	1.143	1.113	1.125 E5	4.94
8) fluorene	1.100	1.043	1.081	1.067	1.109	1.009	0.991	1.057 E5	4.25
9) phenanthrene	1.323	1.110	1.115	1.095	1.195	1.087	1.077	1.143 E5	7.73
10) anthracene	0.848	0.939	1.036	1.074	1.181	1.079	1.069	1.033 E5	10.46
11)s o-terphenyl	1.080	1.032	1.082	1.102	1.237	1.208	1.311	1.150 E5	8.86
12) fluoranthene	1.118	1.028	1.081	1.102	1.266	1.095	1.120	1.116 E5	6.55
13) pyrene	1.118	1.100	1.176	1.198	1.244	1.132	1.130	1.157 E5	4.43
14) benzo(a)anthracen	1.124	1.051	1.104	1.028	1.155	1.034	1.092	1.084 E5	4.44
15) chrysene	0.877	0.847	0.906	0.999	1.176	1.094	1.088	0.998 E5	12.59
16) benzo(B)fluoranth	1.179	1.116	1.150	1.086	1.153	1.110	1.103	1.128 E5	2.92
17) benzo(k)fluoranth	0.771	0.791	0.881	0.952	1.180	1.064	1.107	0.964 E5	16.47
18) benzo(a)pyrene	1.028	0.979	1.019	1.052	1.222	1.144	1.213	1.094 E5	8.98
19) indeno(1,2,3-cd)p	1.169	0.995	1.000	1.058	1.293	1.461	1.898	1.268 E5	25.66
Quadratic regr.,Force(0,0) for indeno(1,2,3-cd)pyrene									
Coefficient = 0.9996									
Response Ratio = 0.00000 + 88417.57858 *A + 140.89633 *A^2									
20) dibenzo(ah)anthra	0.785	0.903	0.957	0.995	1.156	1.115	1.121	1.005 E5	13.44
21) benzo(ghi)perylen	1.021	0.955	1.011	1.019	1.147	1.065	1.073	1.041 E5	5.79
22)s bht	0.100							0.100	0.00
23)s bht	0.100							0.100	0.00
Signal #2									
25)h c-9	1.347							1.347 E5	0.00
26)h c-10	1.347							1.347 E5	0.00
27) naphthalene #2	1.590	1.241	1.358	1.266	1.223	1.192	1.354	1.318 E5	10.30
28) c-12	1.347							1.347 E5	0.00
29) 2-methylnaphthale	1.552	1.212	1.309	1.235	1.189	1.158	1.429	1.298 E5	11.10
30) c-14	1.347							1.347 E5	0.00
31) c-16	1.347							1.347 E5	0.00
32) c-18	1.347							1.347 E5	0.00
33) c-19	1.293							1.293 E5	0.00
34) c-20	1.293							1.293 E5	0.00
35)s 1-chlorooctadecan	1.201	0.948	0.975	0.972	0.949	0.926	1.132	1.015 E5	10.55
36) c-22	1.293							1.293 E5	0.00
37) c-24	1.293							1.293 E5	0.00
38) c-26	1.293							1.293 E5	0.00
39) c-28	1.293							1.293 E5	0.00
40)h c-30	1.293							1.293 E5	0.00
41)h c-36	1.293							1.293 E5	0.00

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICC264
Lab FileID: BI6036.D

42)s bht	0.100		0.100	0.00
43)s bht	0.100		0.100	0.00
44)s BHT	0.100		0.100	0.00

(#) = Out of Range

EPH071911w.M Thu Jul 21 09:59:21 2011

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICV264
Lab FileID: BI6041.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6041.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 20 Jul 2011 12:45 am
Operator : alysial
Sample   : icv264-50
Misc   : op25494,gbi264,1000,,,2,,
ALS Vial : 16 (Sig #1); 15 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 20 16:47:20 2011
Quant Method : C:\msdchem\1\METHODS\EPH071911w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	110.367 E3	6.1	98	0.00
3		2-methylnaphthalene	109.481	104.074 E3	4.9	96	0.00
4	s	2-fluorobiphenyl	93.283	92.025 E3	1.3	99	0.00
5		acenaphthylene	108.753	103.669 E3	4.7	96	0.00
6	s	2-bromonaphthalene	60.653	61.466 E3	-1.3	99	0.00
7		acenaphthene	112.513	108.645 E3	3.4	99	0.00
8		fluorene	105.718	106.248 E3	-0.5	98	0.00
9		phenanthrene	114.323	102.217 E3	10.6	92	0.00
10		anthracene	103.256	102.791 E3	0.5	99	0.00
11	s	o-terphenyl	115.039	104.827 E3	8.9	97	0.00
12		fluoranthene	111.578	107.221 E3	3.9	99	0.00
13		pyrene	115.689	109.416 E3	5.4	93	0.01
14		benzo(a)anthracene	108.400	113.625 E3	-4.8	103	0.01
15		chrysene	99.806	87.175 E3	12.7	96	0.01
16		benzo(B)fluoranthene	112.813	104.397 E3	7.5	91	0.02
17		benzo(k)fluoranthene	96.386	92.562 E3	4.0	105	0.02
18		benzo(a)pyrene	109.383	97.779 E3	10.6	96	0.02
19		indeno(1,2,3-cd)pyrene	126.765	100.164 E3	21.0	100	0.02
20		dibenzo(ah)anthracene	100.455	95.255 E3	5.2	100	0.02
21		benzo(ghi)perylene	104.149	100.029 E3	4.0	99	0.03
Signal #2							
25	h	c-9	134.712	118.958 E3	11.7	0#	-0.07
26	h	c-10	134.712	121.066 E3	10.1	0#	0.07
27		naphthalene #2	131.755	127.650 E3	3.1	94	0.00
28		c-12	134.712	119.333 E3	11.4	0#	0.00
29		2-methylnaphthalene #2	129.787	122.806 E3	5.4	94	0.00
30		c-14	134.712	118.858 E3	11.8	0#	0.00
31		c-16	134.712	119.556 E3	11.3	0#	0.00

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICV264
Lab FileID: BI6041.D

32		c-18	134.712	122.537	E3	9.0	0#	0.00
33		c-19	129.318	119.008	E3	8.0	0#	0.00
34		c-20	129.318	118.801	E3	8.1	0#	0.00
35	s	1-chlorooctadecane	101.470	95.818	E3	5.6	98	0.00
36		c-22	129.318	119.972	E3	7.2	0#	0.00
37		c-24	129.318	115.370	E3	10.8	0#	0.00
38		c-26	129.318	112.886	E3	12.7	0#	0.00
39		c-28	129.318	116.678	E3	9.8	0#	0.00
40	h	c-30	129.318	118.722	E3	8.2	0#	1.56#
41	h	c-36	129.318	112.623	E3	12.9	0#	1.79#

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH071911w.M Thu Jul 21 09:57:42 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6081.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6081.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 21 Jul 2011   3:52 pm
Operator : alysial
Sample   : cc264-50, 266
Misc   : op25562,gbi266,11.,,,2,,
ALS Vial : 142 (Sig #1); 141 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 21 16:49:44 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	106.658 E3	9.3	94	0.00
3		2-methylnaphthalene	109.481	102.272 E3	6.6	94	0.00
4	s	2-fluorobiphenyl	93.283	87.875 E3	5.8	95	0.00
5		acenaphthylene	108.753	102.418 E3	5.8	94	0.00
6	s	2-bromonaphthalene	60.653	58.662 E3	3.3	94	0.00
7		acenaphthene	112.513	104.503 E3	7.1	95	0.00
8		fluorene	105.718	102.582 E3	3.0	95	0.00
9		phenanthrene	114.323	105.237 E3	7.9	94	0.00
10		anthracene	103.256	98.577 E3	4.5	95	0.00
11	s	o-terphenyl	115.039	102.510 E3	10.9	95	0.00
12		fluoranthene	111.578	102.281 E3	8.3	95	0.00
13		pyrene	115.689	107.355 E3	7.2	91	0.00
14		benzo(a)anthracene	108.400	107.311 E3	1.0	97	0.00
15		chrysene	99.806	85.673 E3	14.2	95	0.00
16		benzo(B)fluoranthene	112.813	98.751 E3	12.5	86	0.00
17		benzo(k)fluoranthene	96.386	91.944 E3	4.6	104	0.01
18		benzo(a)pyrene	109.383	98.315 E3	10.1	97	0.00
19		indeno(1,2,3-cd)pyrene	126.765	96.282 E3	24.0	96	0.01
20		dibenzo(ah)anthracene	100.455	91.614 E3	8.8	96	0.01
21		benzo(ghi)perylene	104.149	94.933 E3	8.8	94	0.02
Signal #2							
25	h	c-9	134.712	120.051 E3	10.9	0#	0.00
26	h	c-10	134.712	124.966 E3	7.2	0#	0.00
27		naphthalene #2	131.755	130.272 E3	1.1	96	0.00
28		c-12	134.712	123.735 E3	8.1	0#	0.00
29		2-methylnaphthalene #2	129.787	124.627 E3	4.0	95	0.00
30		c-14	134.712	120.626 E3	10.5	0#	0.00
31		c-16	134.712	121.325 E3	9.9	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6081.D

32		c-18	134.712	123.781	E3	8.1	0#	0.00
33		c-19	129.318	120.065	E3	7.2	0#	0.00
34		c-20	129.318	119.741	E3	7.4	0#	0.00
35	s	1-chlorooctadecane	101.470	96.681	E3	4.7	99	-0.01
36		c-22	129.318	120.749	E3	6.6	0#	-0.01
37		c-24	129.318	119.559	E3	7.5	0#	0.00
38		c-26	129.318	118.456	E3	8.4	0#	-0.01
39		c-28	129.318	117.787	E3	8.9	0#	-0.01
40	h	c-30	129.318	119.160	E3	7.9	0#	0.00
41	h	c-36	129.318	114.166	E3	11.7	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Thu Jul 21 16:50:40 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6092.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6092.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 22 Jul 2011 12:46 am
Operator : alysial
Sample   : cc264-50
Misc   : op25508,gbi266,11.99,,,2,,
ALS Vial : 144 (Sig #1); 143 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 22 11:10:52 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	103.328 E3	12.1	91	0.00
3		2-methylnaphthalene	109.481	100.524 E3	8.2	93	0.00
4	s	2-fluorobiphenyl	93.283	86.521 E3	7.2	93	0.00
5		acenaphthylene	108.753	101.194 E3	7.0	93	0.00
6	s	2-bromonaphthalene	60.653	59.495 E3	1.9	96	0.00
7		acenaphthene	112.513	102.010 E3	9.3	93	0.00
8		fluorene	105.718	101.818 E3	3.7	94	0.00
9		phenanthrene	114.323	103.650 E3	9.3	93	0.00
10		anthracene	103.256	97.800 E3	5.3	94	0.00
11	s	o-terphenyl	115.039	100.576 E3	12.6	93	0.00
12		fluoranthene	111.578	100.218 E3	10.2	93	0.00
13		pyrene	115.689	104.884 E3	9.3	89	0.00
14		benzo(a)anthracene	108.400	104.930 E3	3.2	95	0.00
15		chrysene	99.806	85.770 E3	14.1	95	0.00
16		benzo(B)fluoranthene	112.813	109.133 E3	3.3	95	0.00
17		benzo(k)fluoranthene	96.386	79.976 E3	17.0	91	0.01
18		benzo(a)pyrene	109.383	97.684 E3	10.7	96	0.01
19		indeno(1,2,3-cd)pyrene	126.765	96.532 E3	23.8	96	0.02
20		dibenzo(ah)anthracene	100.455	90.513 E3	9.9	95	0.02
21		benzo(ghi)perylene	104.149	94.940 E3	8.8	94	0.02
Signal #2							
25	h	c-9	134.712	115.658 E3	14.1	0#	0.00
26	h	c-10	134.712	121.618 E3	9.7	0#	0.00
27		naphthalene #2	131.755	126.507 E3	4.0	93	0.00
28		c-12	134.712	121.002 E3	10.2	0#	0.00
29		2-methylnaphthalene #2	129.787	121.382 E3	6.5	93	0.00
30		c-14	134.712	118.306 E3	12.2	0#	-0.01
31		c-16	134.712	119.328 E3	11.4	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6092.D

32		c-18	134.712	121.355	E3	9.9	0#	0.00
33		c-19	129.318	118.500	E3	8.4	0#	0.00
34		c-20	129.318	117.491	E3	9.1	0#	0.00
35	s	1-chlorooctadecane	101.470	96.583	E3	4.8	99	-0.01
36		c-22	129.318	119.576	E3	7.5	0#	-0.01
37		c-24	129.318	118.086	E3	8.7	0#	-0.01
38		c-26	129.318	117.156	E3	9.4	0#	-0.01
39		c-28	129.318	116.685	E3	9.8	0#	-0.01
40	h	c-30	129.318	117.724	E3	9.0	0#	0.00
41	h	c-36	129.318	114.422	E3	11.5	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Fri Jul 22 13:23:23 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6103.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6103.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 22 Jul 2011   7:39 am
Operator : alysial
Sample   : cc264-50
Misc   : op25508,gbi266,11.99,,,2,,
ALS Vial : 144 (Sig #1); 143 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 22 11:12:17 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	106.851 E3	9.1	94	0.00
3		2-methylnaphthalene	109.481	103.779 E3	5.2	96	0.00
4	s	2-fluorobiphenyl	93.283	89.182 E3	4.4	96	0.00
5		acenaphthylene	108.753	104.352 E3	4.0	96	0.00
6	s	2-bromonaphthalene	60.653	61.134 E3	-0.8	98	0.00
7		acenaphthene	112.513	105.220 E3	6.5	96	0.00
8		fluorene	105.718	105.086 E3	0.6	97	0.00
9		phenanthrene	114.323	106.644 E3	6.7	96	0.00
10		anthracene	103.256	101.074 E3	2.1	98	0.00
11	s	o-terphenyl	115.039	103.278 E3	10.2	95	0.00
12		fluoranthene	111.578	103.389 E3	7.3	96	0.00
13		pyrene	115.689	107.975 E3	6.7	92	0.00
14		benzo(a)anthracene	108.400	110.351 E3	-1.8	100	0.00
15		chrysene	99.806	88.668 E3	11.2	98	0.00
16		benzo(B)fluoranthene	112.813	111.494 E3	1.2	97	0.00
17		benzo(k)fluoranthene	96.386	84.435 E3	12.4	96	0.02
18		benzo(a)pyrene	109.383	100.114 E3	8.5	98	0.01
19		indeno(1,2,3-cd)pyrene	126.765	98.745 E3	22.1	99	0.02
20		dibenzo(ah)anthracene	100.455	93.347 E3	7.1	98	0.02
21		benzo(ghi)perylene	104.149	97.371 E3	6.5	96	0.03
Signal #2							
25	h	c-9	134.712	123.530 E3	8.3	0#	0.00
26	h	c-10	134.712	129.113 E3	4.2	0#	0.00
27		naphthalene #2	131.755	134.192 E3	-1.8	99	0.00
28		c-12	134.712	127.788 E3	5.1	0#	0.00
29		2-methylnaphthalene #2	129.787	128.366 E3	1.1	98	0.00
30		c-14	134.712	124.451 E3	7.6	0#	-0.01
31		c-16	134.712	124.862 E3	7.3	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6103.D

32		c-18	134.712	126.571	E3	6.0	0#	0.00
33		c-19	129.318	123.416	E3	4.6	0#	0.00
34		c-20	129.318	122.367	E3	5.4	0#	0.00
35	s	1-chlorooctadecane	101.470	100.185	E3	1.3	103	-0.01
36		c-22	129.318	123.962	E3	4.1	0#	-0.01
37		c-24	129.318	122.729	E3	5.1	0#	-0.01
38		c-26	129.318	122.372	E3	5.4	0#	-0.01
39		c-28	129.318	121.093	E3	6.4	0#	-0.02
40	h	c-30	129.318	122.264	E3	5.5	0#	0.00
41	h	c-36	129.318	119.033	E3	8.0	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Fri Jul 22 13:23:28 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6108.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6108.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 22 Jul 2011 10:49 am
Operator : alysial
Sample   : cc264-50 (Sig #1); ecc264-50 (Sig #2)
Misc   : op25508,gbi266,11.99,,,2,,
ALS Vial : 142 (Sig #1); 141 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 22 13:19:36 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	101.665 E3	13.5	90	0.00
3		2-methylnaphthalene	109.481	98.679 E3	9.9	91	0.00
4	s	2-fluorobiphenyl	93.283	85.315 E3	8.5	92	0.00
5		acenaphthylene	108.753	100.055 E3	8.0	92	0.00
6	s	2-bromonaphthalene	60.653	58.666 E3	3.3	94	0.00
7		acenaphthene	112.513	101.352 E3	9.9	92	0.00
8		fluorene	105.718	100.731 E3	4.7	93	0.00
9		phenanthrene	114.323	102.509 E3	10.3	92	0.00
10		anthracene	103.256	96.898 E3	6.2	94	0.00
11	s	o-terphenyl	115.039	99.267 E3	13.7	92	0.00
12		fluoranthene	111.578	99.202 E3	11.1	92	0.00
13		pyrene	115.689	103.630 E3	10.4	88	0.00
14		benzo(a)anthracene	108.400	103.688 E3	4.3	94	0.00
15		chrysene	99.806	85.329 E3	14.5	94	0.00
16		benzo(B)fluoranthene	112.813	106.197 E3	5.9	92	0.00
17		benzo(k)fluoranthene	96.386	81.082 E3	15.9	92	0.02
18		benzo(a)pyrene	109.383	96.776 E3	11.5	95	0.01
19		indeno(1,2,3-cd)pyrene	126.765	95.151 E3	24.9	95	0.02
20		dibenzo(ah)anthracene	100.455	90.014 E3	10.4	94	0.02
21		benzo(ghi)perylene	104.149	93.948 E3	9.8	93	0.02
Signal #2							
25	h	c-9	134.712	121.877 E3	9.5	0#	0.00
26	h	c-10	134.712	128.110 E3	4.9	0#	0.00
27		naphthalene #2	131.755	132.744 E3	-0.8	98	0.00
28		c-12	134.712	126.389 E3	6.2	0#	0.00
29		2-methylnaphthalene #2	129.787	126.968 E3	2.2	97	0.00
30		c-14	134.712	122.788 E3	8.9	0#	-0.01
31		c-16	134.712	123.345 E3	8.4	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6108.D

32		c-18	134.712	125.893	E3	6.5	0#	0.00
33		c-19	129.318	122.218	E3	5.5	0#	0.00
34		c-20	129.318	121.476	E3	6.1	0#	0.00
35	s	1-chlorooctadecane	101.470	97.667	E3	3.7	100	-0.01
36		c-22	129.318	122.605	E3	5.2	0#	-0.01
37		c-24	129.318	121.298	E3	6.2	0#	-0.01
38		c-26	129.318	120.809	E3	6.6	0#	-0.01
39		c-28	129.318	120.539	E3	6.8	0#	-0.01
40	h	c-30	129.318	121.462	E3	6.1	0#	0.00
41	h	c-36	129.318	117.864	E3	8.9	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Fri Jul 22 14:43:03 2011

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICC173
Lab FileID: BJ4169.D

Response Factor Report MAGCBJ

Method : C:\msdchem\1\METHODS\EPH071911w.M (RTE Integrator)
Title : BMAEPH-master method
Last Update : Wed Jul 20 09:15:46 2011
Response via : Initial Calibration

Calibration Files
1 =bj4167.D 2 =bj4168.D 3 =bj4169.D 4 =bj4170.D
5 =bj4171.D 6 =bj4172.D 7 =bj4173.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	1.457							1.457 E5	0.00
2) naphthalene	1.751	1.480	1.583	1.592	1.749	1.576	1.469	1.600 E5	7.10
3) 2-methylnaphthale	1.672	1.403	1.492	1.481	1.631	1.465	1.357	1.500 E5	7.61
4)s 2-fluorobiphenyl	1.441	1.208	1.287	1.281	1.398	1.288	1.213	1.302 E5	6.73
5) acenaphthylene	1.658	1.391	1.478	1.465	1.598	1.417	1.334	1.477 E5	7.78
6)s 2-bromonaphthalen	9.379	7.749	8.155	7.938	8.327	6.824	5.802	7.739 E4	14.77
7) acenaphthene	1.702	1.437	1.540	1.535	1.776	1.659	1.632	1.612 E5	7.14
8) fluorene	1.673	1.407	1.501	1.497	1.636	1.467	1.398	1.511 E5	7.03
9) phenanthrene	1.661	1.397	1.494	1.489	1.620	1.409	1.282	1.479 E5	8.90
10) anthracene	1.623	1.388	1.478	1.478	1.673	1.617	1.612	1.553 E5	6.73
11)s o-terphenyl	1.637	1.385	1.485	1.489	1.659	1.516	1.471	1.520 E5	6.35
12) fluoranthene	1.618	1.376	1.469	1.466	1.606	1.447	1.357	1.477 E5	6.89
13) pyrene	1.701	1.421	1.524	1.524	1.673	1.592	1.565	1.571 E5	6.07
14) benzo(a)anthracen	1.507	1.286	1.355	1.332	1.387	1.120	0.977	1.281 E5	13.84
15) chrysene	1.592	1.359	1.452	1.462	1.695	1.619	1.650	1.547 E5	7.97
16) benzo(B)fluoranth	1.570	1.294	1.343	1.286	1.269	1.021	0.879	1.237 E5	18.18
17) benzo(k)fluoranth	1.489	1.325	1.403	1.436	1.705	1.643	1.598	1.514 E5	9.14
18) benzo(a)pyrene	1.551	1.337	1.403	1.380	1.541	1.385	1.302	1.414 E5	6.80
19) indeno(1,2,3-cd)p	1.793	1.150	1.190	1.115	1.096	0.859	0.743	1.135 E5	29.42
Quadratic regr.,Force(0,0) for indeno(1,2,3-cd)pyrene									
Coefficient = 0.9977									
Response Ratio = 0.00000 + 71594.95188 *A + 534.18082 *A^2									
20) dibenzo(ah)anthra	1.090	1.290	1.405	1.420	1.583	1.395	1.285	1.353 E5	11.27
21) benzo(ghi)perylen	1.515	1.313	1.423	1.408	1.652	1.663	1.540	1.502 E5	8.62
22)s bht	0.100							0.100	0.00
23)s bht	0.100							0.100	0.00
Signal #2									
25)h c-9	1.159							1.159 E5	0.00
26)h c-10	1.159							1.159 E5	0.00
27) naphthalene #2	1.197	1.310	1.220	1.195	1.175	1.136	1.339	1.225 E5	5.99
28) c-12	1.159							1.159 E5	0.00
29) 2-methylnaphthale	1.166	1.280	1.202	1.178	1.160	1.121	1.298	1.201 E5	5.43
30) c-14	1.159							1.159 E5	0.00
31) c-16	1.159							1.159 E5	0.00
32) c-18	1.159							1.159 E5	0.00
33) c-19	1.162							1.162 E5	0.00
34) c-20	1.162							1.162 E5	0.00
35)s 1-chlorooctadecan	0.821	0.910	0.853	0.847	0.926	1.028	1.990	1.054 E5	39.72
Linear regr.,Force(0,0)for 1-chlorooctadecane									
Coefficient = 0.9975									
Response Ratio = 0.00000 + 83999.36153 *A									
36) c-22	1.162							1.162 E5	0.00
37) c-24	1.162							1.162 E5	0.00

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICC173
Lab FileID: BJ4169.D

38)	c-26	1.162		1.162 E5	0.00
39)	c-28	1.162		1.162 E5	0.00
40)h	c-30	1.162		1.162 E5	0.00
41)h	c-36	1.162		1.162 E5	0.00
42)s	bht	0.100		0.100	0.00
43)s	bht	0.100		0.100	0.00
44)s	BHT	0.100		0.100	0.00

(#) = Out of Range

EPH071911w.M Wed Jul 20 09:21:04 2011

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICV173
Lab FileID: BJ4174.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bj4174.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 20 Jul 2011   1:07 am
Operator : alysial
Sample   : icv173-50
Misc   : op25547,gbj173,1000,,,2,,
ALS Vial : 16 (Sig #1); 15 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 20 09:17:45 2011
Quant Method : C:\msdchem\1\METHODS\EPH071911w.M
Quant Title : BMAEPH-master method
QLast Update : Wed Jul 20 09:07:39 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000 E3	100.0#	0#	-6.51#
2		naphthalene	160.014	147.390 E3	7.9	93	0.00
3		2-methylnaphthalene	150.037	136.385 E3	9.1	91	0.00
4	s	2-fluorobiphenyl	130.217	121.287 E3	6.9	94	0.00
5		acenaphthylene	147.730	134.246 E3	9.1	91	0.00
6	s	2-bromonaphthalene	77.391	76.223 E3	1.5	93	0.00
7		acenaphthene	161.162	145.053 E3	10.0	94	0.00
8		fluorene	151.136	139.964 E3	7.4	93	0.00
9		phenanthrene	147.900	133.168 E3	10.0	89	0.01
10		anthracene	155.266	136.997 E3	11.8	93	0.01
11	s	o-terphenyl	152.015	136.990 E3	9.9	92	0.00
12		fluoranthene	147.707	139.160 E3	5.8	95	0.01
13		pyrene	157.141	139.163 E3	11.4	91	0.01
14		benzo(a)anthracene	128.057	131.409 E3	-2.6	97	0.01
15		chrysene	154.710	135.357 E3	12.5	93	0.02
16		benzo(B)fluoranthene	123.738	129.259 E3	-4.5	96	0.02
17		benzo(k)fluoranthene	151.425	134.998 E3	10.8	96	0.02
18		benzo(a)pyrene	141.423	127.901 E3	9.6	91	0.02
19		indeno(1,2,3-cd)pyrene	113.503	115.632 E3	-1.9	97	0.02
20		dibenzo(ah)anthracene	135.274	128.541 E3	5.0	91	0.02
21		benzo(ghi)perylene	150.218	129.541 E3	13.8	91	0.03
Signal #2							
25	h	c-9	115.862	108.411 E3	6.4	0#	0.00
26	h	c-10	115.862	110.602 E3	4.5	0#	0.00
27		naphthalene #2	122.471	119.301 E3	2.6	98	0.00
28		c-12	115.862	111.128 E3	4.1	0#	0.00
29		2-methylnaphthalene #2	120.077	116.599 E3	2.9	97	0.00
30		c-14	115.862	110.933 E3	4.3	0#	0.00

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICV173
Lab FileID: BJ4174.D

31		c-16	115.862	110.860	E3	4.3	0#	0.00
32		c-18	115.862	115.109	E3	0.6	0#	0.00
33		c-19	116.249	108.835	E3	6.4	0#	0.00
34		c-20	116.249	107.679	E3	7.4	0#	0.00
35	s	1-chlorooctadecane	105.364	84.471	E3	19.8	99	0.00
36		c-22	116.249	109.707	E3	5.6	0#	0.00
37		c-24	116.249	105.273	E3	9.4	0#	0.00
38		c-26	116.249	106.488	E3	8.4	0#	0.00
39		c-28	116.249	106.020	E3	8.8	0#	0.00
40	h	c-30	116.249	106.208	E3	8.6	0#	0.00
41	h	c-36	116.249	100.327	E3	13.7	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000	E3	100.0#	0# -6.51#
22	s	bht	0.100	0.000		100.0#	0# -24.00#
23	s	bht	0.100	0.000		100.0#	0# -24.49#

Signal #2

42	s	bht	0.100	0.000		100.0#	0# -24.00#
43	s	bht	0.100	0.000		100.0#	0# -24.50#
44	s	BHT	0.100	0.000		100.0#	0# -25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH071911w.M Wed Jul 20 09:21:25 2011

5.6.8

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4289.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bj4289.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 25 Jul 2011   7:26 pm
Operator : alysial
Sample   : cc173-50
Misc   : op25592,gbj177,1000,,,2,,
ALS Vial : 92 (Sig #1); 91 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 26 09:12:39 2011
Quant Method : C:\msdchem\1\METHODS\EPH072511w.M
Quant Title : BMAEPH-master method
QLast Update : Mon Jul 25 10:26:03 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	160.014	153.119 E3	4.3	97	0.00
3		2-methylnaphthalene	150.037	143.671 E3	4.2	96	0.00
4	s	2-fluorobiphenyl	130.217	124.399 E3	4.5	97	0.00
5		acenaphthylene	147.730	141.302 E3	4.4	96	0.00
6	s	2-bromonaphthalene	77.391	77.014 E3	0.5	94	0.00
7		acenaphthene	161.162	149.937 E3	7.0	97	0.00
8		fluorene	151.136	145.639 E3	3.6	97	0.00
9		phenanthrene	147.900	144.676 E3	2.2	97	0.00
10		anthracene	155.266	142.015 E3	8.5	96	0.00
11	s	o-terphenyl	152.015	144.694 E3	4.8	97	0.00
12		fluoranthene	147.707	142.996 E3	3.2	97	0.00
13		pyrene	157.141	148.027 E3	5.8	97	0.00
14		benzo(a)anthracene	128.057	128.790 E3	-0.6	95	0.00
15		chrysene	154.710	143.130 E3	7.5	99	0.00
16		benzo(B)fluoranthene	123.738	128.617 E3	-3.9	96	0.00
17		benzo(k)fluoranthene	151.425	138.085 E3	8.8	98	0.00
18		benzo(a)pyrene	141.423	135.994 E3	3.8	97	0.00
19		indeno(1,2,3-cd)pyrene	113.503	114.950 E3	-1.3	97	0.00
20		dibenzo(ah)anthracene	135.274	126.615 E3	6.4	90	0.00
21		benzo(ghi)perylene	150.218	132.408 E3	11.9	93	0.00
Signal #2							
25	h	c-9	115.862	113.090 E3	2.4	0#	0.00
26	h	c-10	115.862	117.939 E3	-1.8	0#	0.00
27		naphthalene #2	122.471	125.106 E3	-2.2	103	0.00
28		c-12	115.862	117.728 E3	-1.6	0#	0.00
29		2-methylnaphthalene #2	120.077	120.973 E3	-0.7	101	0.00
30		c-14	115.862	115.116 E3	0.6	0#	0.00
31		c-16	115.862	115.568 E3	0.3	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4289.D

32		c-18	115.862	120.463	E3	-4.0	0#	0.00	
33		c-19	116.249	112.707	E3	3.0	0#	0.00	
34		c-20	116.249	111.340	E3	4.2	0#	0.00	
35	s	1-chlorooctadecane	105.364	84.161	E3	20.1	99	0.00	
36		c-22	116.249	112.964	E3	2.8	0#	0.00	
37		c-24	116.249	111.189	E3	4.4	0#	0.00	
38		c-26	116.249	110.650	E3	4.8	0#	0.00	
39		c-28	116.249	109.403	E3	5.9	0#	0.00	
40	h	c-30	116.249	108.796	E3	6.4	0#	0.00	
41	h	c-36	116.249	104.958	E3	9.7	0#	0.00	

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000	E3	100.0#	0#	-6.50#
22	s	bht	0.100	0.000		100.0#	0#	-24.00#
23	s	bht	0.100	0.000		100.0#	0#	-24.49#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-24.00#
43	s	bht	0.100	0.000		100.0#	0#	-24.50#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072511w.M Tue Jul 26 11:15:49 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4300.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bj4300.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 26 Jul 2011   2:24 am
Operator : alysial
Sample   : cc173-50
Misc   : op25610,gbj177,1000,,,2,,
ALS Vial : 94 (Sig #1); 93 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 26 09:10:49 2011
Quant Method : C:\msdchem\1\METHODS\EPH072511w.M
Quant Title : BMAEPH-master method
QLast Update : Mon Jul 25 10:26:03 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	160.014	153.803 E3	3.9	97	0.00
3		2-methylnaphthalene	150.037	145.785 E3	2.8	98	0.00
4	s	2-fluorobiphenyl	130.217	126.510 E3	2.8	98	0.00
5		acenaphthylene	147.730	145.213 E3	1.7	98	0.00
6	s	2-bromonaphthalene	77.391	80.390 E3	-3.9	99	0.00
7		acenaphthene	161.162	150.444 E3	6.7	98	0.00
8		fluorene	151.136	148.072 E3	2.0	99	0.00
9		phenanthrene	147.900	147.360 E3	0.4	99	0.00
10		anthracene	155.266	145.388 E3	6.4	98	0.00
11	s	o-terphenyl	152.015	146.986 E3	3.3	99	0.00
12		fluoranthene	147.707	145.320 E3	1.6	99	0.00
13		pyrene	157.141	150.905 E3	4.0	99	0.00
14		benzo(a)anthracene	128.057	132.848 E3	-3.7	98	0.00
15		chrysene	154.710	146.361 E3	5.4	101	0.00
16		benzo(B)fluoranthene	123.738	133.880 E3	-8.2	100	0.00
17		benzo(k)fluoranthene	151.425	142.798 E3	5.7	102	0.00
18		benzo(a)pyrene	141.423	140.179 E3	0.9	100	0.00
19		indeno(1,2,3-cd)pyrene	113.503	120.048 E3	-5.8	101	0.00
20		dibenzo(ah)anthracene	135.274	132.075 E3	2.4	94	0.00
21		benzo(ghi)perylene	150.218	137.361 E3	8.6	97	0.00
Signal #2							
25	h	c-9	115.862	115.424 E3	0.4	0#	0.00
26	h	c-10	115.862	119.760 E3	-3.4	0#	0.00
27		naphthalene #2	122.471	126.444 E3	-3.2	104	0.00
28		c-12	115.862	119.662 E3	-3.3	0#	0.00
29		2-methylnaphthalene #2	120.077	122.717 E3	-2.2	102	0.00
30		c-14	115.862	116.825 E3	-0.8	0#	0.00
31		c-16	115.862	117.222 E3	-1.2	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4300.D

32		c-18	115.862	122.083	E3	-5.4	0#	0.00
33		c-19	116.249	114.205	E3	1.8	0#	0.00
34		c-20	116.249	112.809	E3	3.0	0#	0.00
35	s	1-chlorooctadecane	105.364	84.825	E3	19.5	99	0.00
36		c-22	116.249	114.647	E3	1.4	0#	0.00
37		c-24	116.249	112.260	E3	3.4	0#	0.00
38		c-26	116.249	111.807	E3	3.8	0#	0.00
39		c-28	116.249	110.438	E3	5.0	0#	0.00
40	h	c-30	116.249	109.803	E3	5.5	0#	0.00
41	h	c-36	116.249	106.065	E3	8.8	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000	E3	100.0#	0#	-6.50#
22	s	bht	0.100	0.000		100.0#	0#	-24.00#
23	s	bht	0.100	0.000		100.0#	0#	-24.49#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-24.00#
43	s	bht	0.100	0.000		100.0#	0#	-24.50#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072511w.M Tue Jul 26 11:15:55 2011

New England ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: MC1781-1 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-4

Wet Weight (Total)	29.969	g
Tare Weight	20.71	g
Dry Weight (Total)	28.07	g
Solids, Percent	79.5	%

Sample: MC1781-2 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-4.5

Wet Weight (Total)	25.435	g
Tare Weight	16.958	g
Dry Weight (Total)	24.458	g
Solids, Percent	88.5	%

Sample: MC1781-3 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-0.5

Wet Weight (Total)	25.081	g
Tare Weight	18.252	g
Dry Weight (Total)	23.432	g
Solids, Percent	75.9	%

Sample: MC1781-4 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-2.0

Wet Weight (Total)	33.423	g
Tare Weight	24.42	g
Dry Weight (Total)	32.506	g
Solids, Percent	89.8	%

Sample: MC1781-5 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-0.5

Wet Weight (Total)	27.517	g
Tare Weight	18.403	g
Dry Weight (Total)	26.505	g
Solids, Percent	88.9	%

Sample: MC1781-6 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-2.0

Wet Weight (Total)	30.494	g
Tare Weight	21.45	g
Dry Weight (Total)	29.53	g
Solids, Percent	89.3	%

Percent Solids Raw Data Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: MC1781-7 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-4.0

Wet Weight (Total)	25.29	g
Tare Weight	18.857	g
Dry Weight (Total)	24.688	g
Solids, Percent	90.6	%

Sample: MC1781-8 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-4.5

Wet Weight (Total)	26.505	g
Tare Weight	19.947	g
Dry Weight (Total)	25.81	g
Solids, Percent	89.4	%

Sample: MC1781-9 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-0.5

Wet Weight (Total)	24.529	g
Tare Weight	17.197	g
Dry Weight (Total)	23.893	g
Solids, Percent	91.3	%

Sample: MC1781-10 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-2.0

Wet Weight (Total)	28.429	g
Tare Weight	21.134	g
Dry Weight (Total)	27.119	g
Solids, Percent	82	%

Sample: MC1781-11 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-4.0

Wet Weight (Total)	25.44	g
Tare Weight	19.373	g
Dry Weight (Total)	23.279	g
Solids, Percent	64.4	%

Sample: MC1781-12 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-4.5

Wet Weight (Total)	27.764	g
Tare Weight	17.646	g
Dry Weight (Total)	26.129	g
Solids, Percent	83.8	%

Percent Solids Raw Data Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: MC1781-13 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-0.5

Wet Weight (Total)	28.167	g
Tare Weight	20.065	g
Dry Weight (Total)	27.216	g
Solids, Percent	88.3	%

Sample: MC1781-14 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-2

Wet Weight (Total)	30.126	g
Tare Weight	21.968	g
Dry Weight (Total)	28.946	g
Solids, Percent	85.5	%

Sample: MC1781-15 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS6-20110701-2

Wet Weight (Total)	35.646	g
Tare Weight	26.076	g
Dry Weight (Total)	34.337	g
Solids, Percent	86.3	%

Sample: MC1781-16 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS6-20110701-4

Wet Weight (Total)	30.607	g
Tare Weight	21.63	g
Dry Weight (Total)	29.463	g
Solids, Percent	87.3	%

Sample: MC1781-17 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-4

Wet Weight (Total)	30.679	g
Tare Weight	21.217	g
Dry Weight (Total)	28.292	g
Solids, Percent	74.8	%

Sample: MC1781-18 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-4.5

Wet Weight (Total)	25.62	g
Tare Weight	18.624	g
Dry Weight (Total)	24.479	g
Solids, Percent	83.7	%

New England ACCUTEST LABORATORIES

08/03/11

Technical Report for

Empirical Labs

TETIFLJX:Mayport 1585

112G02801

Accutest Job Number: MC1781

Sampling Date: 07/01/11

Report to:

brichard@empirlabs.com

ATTN: Brian Richards

Total number of pages in report: **65**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235)

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Sections: 1 2 3 4 5 6

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Sample Results **6**
3.1: MC1781-1: MPT-1343-SS18-20110701-4 7
3.2: MC1781-2: MPT-1343-SS18-20110701-4.5 8
3.3: MC1781-3: MPT-1343-SS18-20110701-0.5 9
3.4: MC1781-4: MPT-1343-SS18-20110701-2.0 10
3.5: MC1781-5: MPT-1343-SS19-20110701-0.5 11
3.6: MC1781-6: MPT-1343-SS19-20110701-2.0 12
3.7: MC1781-7: MPT-1343-SS19-20110701-4.0 13
3.8: MC1781-8: MPT-1343-SS19-20110701-4.5 14
3.9: MC1781-9: MPT-1343-SS20-20110701-0.5 15
3.10: MC1781-10: MPT-1343-SS20-20110701-2.0 16
3.11: MC1781-11: MPT-1343-SS20-20110701-4.0 17
3.12: MC1781-12: MPT-1343-SS20-20110701-4.5 18
3.13: MC1781-13: MPT-1343-SS21-20110701-0.5 19
3.14: MC1781-14: MPT-1343-SS21-20110701-2 20
3.15: MC1781-15: MPT-1343-SS6-20110701-2 21
3.16: MC1781-16: MPT-1343-SS6-20110701-4 22
3.17: MC1781-17: MPT-1343-SS21-20110701-4 23
3.18: MC1781-18: MPT-1343-SS21-20110701-4.5 24
Section 4: Misc. Forms **25**
4.1: Chain of Custody 26
4.2: Sample Tracking Chronicle 29
4.3: Internal Chain of Custody 32
Section 5: GC Semi-volatiles - QC Data Summaries **34**
5.1: Method Blank Summary 35
5.2: Blank Spike/Blank Spike Duplicate Summary 36
5.3: Matrix Spike/Matrix Spike Duplicate Summary 37
5.4: Surrogate Recovery Summaries 38
5.5: GC Surrogate Retention Time Summaries 39
5.6: Initial and Continuing Calibration Summaries 42
Section 6: General Chemistry - QC Data Summaries **62**
6.1: Percent Solids Raw Data Summary 63

Sample Summary

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC1781-1	07/01/11	10:00	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-4
MC1781-2	07/01/11	10:20	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-4.5
MC1781-3	07/01/11	10:35	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-0.5
MC1781-4	07/01/11	10:45	MP	07/08/11	SO	Soil	MPT-1343-SS18-20110701-2.0
MC1781-5	07/01/11	11:00	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-0.5
MC1781-6	07/01/11	11:05	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-2.0
MC1781-7	07/01/11	11:15	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-4.0
MC1781-8	07/01/11	11:30	MP	07/08/11	SO	Soil	MPT-1343-SS19-20110701-4.5
MC1781-9	07/01/11	11:40	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-0.5
MC1781-10	07/01/11	11:45	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-2.0
MC1781-11	07/01/11	12:10	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-4.0
MC1781-12	07/01/11	12:20	MP	07/08/11	SO	Soil	MPT-1343-SS20-20110701-4.5
MC1781-13	07/01/11	12:30	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-0.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC1781-14	07/01/11	12:45	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-2
MC1781-15	07/01/11	12:55	MP	07/08/11	SO	Soil	MPT-1343-SS6-20110701-2
MC1781-16	07/01/11	13:00	MP	07/08/11	SO	Soil	MPT-1343-SS6-20110701-4
MC1781-17	07/01/11	13:10	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-4
MC1781-18	07/01/11	13:30	MP	07/08/11	SO	Soil	MPT-1343-SS21-20110701-4.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Empirical Labs	**Job No**	MC1781
Site:	TETIFLJX:Mayport 1585	**Report Date**	7/26/2011 4:33:41 PM

18 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 07/01/2011 and were received at Accutest on 07/08/2011 properly preserved, at 1.5 Deg. C and intact. These Samples received an Accutest job number of MC1781. 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.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix SO **Batch ID:** OP25508

- 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(s) MC1781-2MS, MC1781-2MSD were used as the QC samples indicated.
- MC1781-12, 16 for o-Terphenyl: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- MC1781-11 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- OP25508-BS/BSD for C11-C22 Aromatics (Unadj.): Aromatic breakthrough (naphthalene and/or 2-methylnaphthalene) exceeded 5% method limit.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO **Batch ID:** GN35454

- Sample(s) MC1781-2DUP were used as the QC samples for Solids, Percent.

Matrix SO **Batch ID:** GN35471

- Sample(s) MC1781-7DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC1781).

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-4		
Lab Sample ID:	MC1781-1	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	79.5
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6089.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	22000 U	22000	22000	ug/kg	
	C9-C18 Aliphatics	11000 U	11000	11000	ug/kg	
	C19-C36 Aliphatics	11000 U	11000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%
321-60-8	2-Fluorobiphenyl	85%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	53%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-4.5		
Lab Sample ID:	MC1781-2	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	88.5
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6088.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	23800	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	19600	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	81%		40-140%
580-13-2	2-Bromonaphthalene	66%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-0.5		
Lab Sample ID:	MC1781-3	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	75.9
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6090.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	23000 U	23000	23000	ug/kg	
	C9-C18 Aliphatics	11000 U	11000	11000	ug/kg	
	C19-C36 Aliphatics	11000 U	11000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	51%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS18-20110701-2.0		
Lab Sample ID:	MC1781-4	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	89.8
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6091.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	19000 U	19000	19000	ug/kg	
	C9-C18 Aliphatics	9700 U	9700	9700	ug/kg	
	C19-C36 Aliphatics	15800	9700	9700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
580-13-2	2-Bromonaphthalene	67%		40-140%
3386-33-2	1-Chlorooctadecane	52%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-0.5		
Lab Sample ID:	MC1781-5	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	88.9
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6093.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	78%		40-140%
580-13-2	2-Bromonaphthalene	68%		40-140%
3386-33-2	1-Chlorooctadecane	50%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-2.0		
Lab Sample ID:	MC1781-6	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	89.3
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6094.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%
580-13-2	2-Bromonaphthalene	71%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-4.0		
Lab Sample ID:	MC1781-7	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	90.6
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6095.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.8 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	19000 U	19000	19000	ug/kg	
	C9-C18 Aliphatics	9300 U	9300	9300	ug/kg	
	C19-C36 Aliphatics	9300 U	9300	9300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	50%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS19-20110701-4.5		
Lab Sample ID:	MC1781-8	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	89.4
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6096.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	55%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS20-20110701-0.5		
Lab Sample ID:	MC1781-9	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	91.3
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6097.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.4 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	24200	19000	19000	ug/kg	
	C9-C18 Aliphatics	16000	9600	9600	ug/kg	
	C19-C36 Aliphatics	29000	9600	9600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		40-140%
321-60-8	2-Fluorobiphenyl	77%		40-140%
580-13-2	2-Bromonaphthalene	67%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS20-20110701-2.0
Lab Sample ID: MC1781-10
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 82.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6098.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.6 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	59300	21000	21000	ug/kg	
	C9-C18 Aliphatics	107000	11000	11000	ug/kg	
	C19-C36 Aliphatics	91600	11000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS20-20110701-4.0		
Lab Sample ID:	MC1781-11	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	64.4
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6099.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	113000	27000	27000	ug/kg	
	C9-C18 Aliphatics	105000	13000	13000	ug/kg	
	C19-C36 Aliphatics	29500	13000	13000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%
580-13-2	2-Bromonaphthalene	75%		40-140%
3386-33-2	1-Chlorooctadecane	34% [a]		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS20-20110701-4.5
Lab Sample ID: MC1781-12
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 83.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ4293.D	1	07/25/11	AL	07/11/11	OP25508	GBJ177
Run #2							

	Initial Weight	Final Volume
Run #1	11.5 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	1190000	21000	21000	ug/kg	
	C9-C18 Aliphatics	3180000	10000	10000	ug/kg	
	C19-C36 Aliphatics	590000	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	203% [a]		40-140%
321-60-8	2-Fluorobiphenyl	101%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%
3386-33-2	1-Chlorooctadecane	71%		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-0.5
Lab Sample ID: MC1781-13
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 88.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6101.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	19700	19000	19000	ug/kg	
	C9-C18 Aliphatics	9900	9700	9700	ug/kg	
	C19-C36 Aliphatics	25800	9700	9700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		40-140%
321-60-8	2-Fluorobiphenyl	76%		40-140%
580-13-2	2-Bromonaphthalene	72%		40-140%
3386-33-2	1-Chlorooctadecane	54%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-2
Lab Sample ID: MC1781-14
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 85.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6102.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	21000 U	21000	21000	ug/kg	
	C9-C18 Aliphatics	10000 U	10000	10000	ug/kg	
	C19-C36 Aliphatics	10000 U	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
580-13-2	2-Bromonaphthalene	70%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS6-20110701-2
Lab Sample ID: MC1781-15
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 86.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6104.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.9 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	20000 U	20000	20000	ug/kg	
	C9-C18 Aliphatics	12100	9800	9800	ug/kg	
	C19-C36 Aliphatics	9800 U	9800	9800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	74%		40-140%
580-13-2	2-Bromonaphthalene	69%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MPT-1343-SS6-20110701-4		
Lab Sample ID:	MC1781-16	**Date Sampled:**	07/01/11
Matrix:	SO - Soil	**Date Received:**	07/08/11
Method:	MADEP EPH REV 1.1 SW846 3546	**Percent Solids:**	87.3
Project:	TETIFLJX:Mayport 1585		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ4294.D	1	07/25/11	AL	07/11/11	OP25508	GBJ177
Run #2							

	Initial Weight	Final Volume
Run #1	11.4 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	1400000	20000	20000	ug/kg	
	C9-C18 Aliphatics	3710000	10000	10000	ug/kg	
	C19-C36 Aliphatics	623000	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	207% [a]		40-140%
321-60-8	2-Fluorobiphenyl	107%		40-140%
580-13-2	2-Bromonaphthalene	96%		40-140%
3386-33-2	1-Chlorooctadecane	70%		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-4
Lab Sample ID: MC1781-17
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 74.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6106.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.2 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	536000	24000	24000	ug/kg	
	C9-C18 Aliphatics	913000	12000	12000	ug/kg	
	C19-C36 Aliphatics	185000	12000	12000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	43%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%
580-13-2	2-Bromonaphthalene	71%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MPT-1343-SS21-20110701-4.5
Lab Sample ID: MC1781-18
Matrix: SO - Soil
Method: MADEP EPH REV 1.1 SW846 3546
Project: TETIFLJX:Mayport 1585

Date Sampled: 07/01/11
Date Received: 07/08/11
Percent Solids: 83.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BI6107.D	1	07/22/11	AL	07/11/11	OP25508	GBI266
Run #2							

	Initial Weight	Final Volume
Run #1	11.8 g	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	PQL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	498000	20000	20000	ug/kg	
	C9-C18 Aliphatics	879000	10000	10000	ug/kg	
	C19-C36 Aliphatics	183000	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		40-140%
321-60-8	2-Fluorobiphenyl	85%		40-140%
580-13-2	2-Bromonaphthalene	61%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (FL)
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

TETRA TECH NUS, INC. (MAYPORT) CHAIN OF CUSTODY | NUMBER № 2228 | ~~F83998~~ M-M OF 07-07-11 MC1781

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02801	Site 1343	Mark Peterson	904 334-7260	Accutest / Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: David Siefken	PHONE NUMBER: 904-334-7260	ADDRESS: 4405 Vineland Rd CT 15
		CARRIER/WAYBILL NUMBER		CITY, STATE: Orlando FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)
PRESERVATIVE USED

	DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TRPH Fraction (MADEP)								COMMENTS
1	7/1	1000	MPT-1343-SS18-20110701	-4		4	SO		1	x		-1						Cool to 4°C
2		1020	MPT-1343-SS18-20110701	-4.5		4.5			1	x		-2						
3		1035	MPT-1343-SS18-20110701	-0.5		0.5			1	x		-3						
4		1045	MPT-1343-SS18-20110701	-2.0		2.0			1	x		-4						
5		1100	MPT-1343-SS19-20110701	-0.5		0.5			1	x		-5						
6		1105	MPT-1343-SS19-20110701	-2.0		2			1	x		-6						
7		1115	MPT-1343-SS19-20110701	-4.0		4			1	x		-7						
8		1130	MPT-1343-SS19-20110701	-4.5		4.5			1	x		-8						
9		1140	MPT-1343-SS20-20110701	-0.5		0.5			1	x		-9						
10		1145	MPT-1343-SS20-20110701	-2.0		2.0			1	x		-10						
11		1210	MPT-1343-SS20-20110701	-4.0		4.0			1	x		-11						
12		1220	MPT-1343-SS20-20110701	-4.5		4.5			1	x		-12						12F

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	7-5-11	1221	1. RECEIVED BY	07/05/11	1221
2. RELINQUISHED BY	07/05/11	1555	2. RECEIVED BY	070611	0800
3. RELINQUISHED BY FEDEX	7/8/11	12:50	3. RECEIVED BY	7/8/11	12:50

COMMENTS: 3-4 rec 1.5°

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

4.1 4

MC1781: Chain of Custody
Page 1 of 3

TETRA TECH NUS, INC. (Mayport) CHAIN OF CUSTODY | NUMBER № 2229 ~~F8199~~ M-M 07-07-11 OF MC1781

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112g02801	Site 1343	Mark Peterson	904-334-7260	Accutest/Heather for Empirical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		David Siefken	904-334-7260	4405 Vineland Rd CT-15
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Orlando, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)
PRESERVATIVE USED

	DATE 2011 YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TRPH-Fraction (MADEP)								COMMENTS
13	7/1	1230	MPT-1343-SS21-20110701-0.5			0.5	SO		1	X		-13						Cool to 4°C
14		1245	MPT-1343-SS21-20110701-2			2			1	X		-14						
15		1255	MPT-1343-SS6-20110701-2			2			1	X		-15						
16		1300	MPT-1343-SS6-20110701-4			4			1	X		-16						
17		1310	MPT-1343-SS21-20110701 4			4			1	X		-17						
18		1330	MPT-1343-SS21-20110701 4.5			4.5			1	X		-18						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	7-5-11	1221	1. RECEIVED BY [signature]	07/05/11	1221
2. RELINQUISHED BY	07/05/11	1555	2. RECEIVED BY [signature] Alex	07/06/11	0800
3. RELINQUISHED BY FEDER	7/8/11	12:50	3. RECEIVED BY [signature]	7/8/11	12:50

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 3.4 rac 1.5°

4/02R
FORM NO. TtNUS-001

4.1 4

MC1781: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC1781 **Client:** ELTNN **Immediate Client Services Action Required:** No

Date / Time Received: 7/8/2011 **Delivery Method:** **Client Service Action Required at Login:** No

Project: MAYPORT 1343 **No. Coolers:** 1 **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC1781: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC1781-1 Collected: 01-JUL-11 10:00 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-4						
MC1781-1	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-1	MADEP EPH REV 1.1	21-JUL-11 22:52	AL	11-JUL-11	AJ	BMAEPHR
MC1781-2 Collected: 01-JUL-11 10:20 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-4.5						
MC1781-2	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-2	MADEP EPH REV 1.1	21-JUL-11 22:15	AL	11-JUL-11	AJ	BMAEPHR
MC1781-3 Collected: 01-JUL-11 10:35 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-0.5						
MC1781-3	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-3	MADEP EPH REV 1.1	21-JUL-11 23:30	AL	11-JUL-11	AJ	BMAEPHR
MC1781-4 Collected: 01-JUL-11 10:45 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS18-20110701-2.0						
MC1781-4	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-4	MADEP EPH REV 1.1	22-JUL-11 00:08	AL	11-JUL-11	AJ	BMAEPHR
MC1781-5 Collected: 01-JUL-11 11:00 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-0.5						
MC1781-5	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-5	MADEP EPH REV 1.1	22-JUL-11 01:23	AL	11-JUL-11	AJ	BMAEPHR
MC1781-6 Collected: 01-JUL-11 11:05 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-2.0						
MC1781-6	SM21 2540 B MOD.	11-JUL-11	HS			%SOL
MC1781-6	MADEP EPH REV 1.1	22-JUL-11 02:01	AL	11-JUL-11	AJ	BMAEPHR
MC1781-7 Collected: 01-JUL-11 11:15 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-4.0						
MC1781-7	SM21 2540 B MOD.	12-JUL-11	CF			%SOL

Internal Sample Tracking Chronicle

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC1781-7	MADEP EPH REV 1.1	22-JUL-11 02:38	AL	11-JUL-11	AJ	BMAEPHR
MC1781-8	Collected: 01-JUL-11 11:30 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS19-20110701-4.5						
MC1781-8	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-8	MADEP EPH REV 1.1	22-JUL-11 03:16	AL	11-JUL-11	AJ	BMAEPHR
MC1781-9	Collected: 01-JUL-11 11:40 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-0.5						
MC1781-9	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-9	MADEP EPH REV 1.1	22-JUL-11 03:53	AL	11-JUL-11	AJ	BMAEPHR
MC1781-10	Collected: 01-JUL-11 11:45 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-2.0						
MC1781-10	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-10	MADEP EPH REV 1.1	22-JUL-11 04:31	AL	11-JUL-11	AJ	BMAEPHR
MC1781-11	Collected: 01-JUL-11 12:10 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-4.0						
MC1781-11	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-11	MADEP EPH REV 1.1	22-JUL-11 05:08	AL	11-JUL-11	AJ	BMAEPHR
MC1781-12	Collected: 01-JUL-11 12:20 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS20-20110701-4.5						
MC1781-12	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-12	MADEP EPH REV 1.1	25-JUL-11 22:01	AL	11-JUL-11	AJ	BMAEPHR
MC1781-13	Collected: 01-JUL-11 12:30 By: MP		Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-0.5						
MC1781-13	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-13	MADEP EPH REV 1.1	22-JUL-11 06:24	AL	11-JUL-11	AJ	BMAEPHR

Internal Sample Tracking Chronicle

Empirical Labs

Job No: MC1781

TETIFLJX:Mayport 1585
Project No: 112G02801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC1781-14 Collected: 01-JUL-11 12:45 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-2						
MC1781-14	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-14	MADEP EPH REV 1.1	22-JUL-11 07:01	AL	11-JUL-11	AJ	BMAEPHR
MC1781-15 Collected: 01-JUL-11 12:55 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS6-20110701-2						
MC1781-15	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-15	MADEP EPH REV 1.1	22-JUL-11 08:17	AL	11-JUL-11	AJ	BMAEPHR
MC1781-16 Collected: 01-JUL-11 13:00 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS6-20110701-4						
MC1781-16	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-16	MADEP EPH REV 1.1	25-JUL-11 22:39	AL	11-JUL-11	AJ	BMAEPHR
MC1781-17 Collected: 01-JUL-11 13:10 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-4						
MC1781-17	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-17	MADEP EPH REV 1.1	22-JUL-11 09:34	AL	11-JUL-11	AJ	BMAEPHR
MC1781-18 Collected: 01-JUL-11 13:30 By: MP			Received: 08-JUL-11 By: JB			
MPT-1343-SS21-20110701-4.5						
MC1781-18	SM21 2540 B MOD.	12-JUL-11	CF			%SOL
MC1781-18	MADEP EPH REV 1.1	22-JUL-11 10:12	AL	11-JUL-11	AJ	BMAEPHR

Accutest Internal Chain of Custody

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585
Received: 07/08/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC1781-1.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-1.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-1.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-1.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-2.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-2.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-2.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-2.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-3.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-3.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-3.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-3.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-4.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-4.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-4.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-4.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-5.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-5.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-5.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-5.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-6.1	Walk In Ref #9	Hamid Siamak	07/11/11 08:25	Retrieve from Storage
MC1781-6.1	Hamid Siamak	Walk In Ref #9	07/11/11 09:45	Return to Storage
MC1781-6.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-6.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-7.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-7.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-7.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-7.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-8.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-8.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-8.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-8.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-9.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-9.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-9.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-9.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage

Accutest Internal Chain of Custody

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585
Received: 07/08/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC1781-10.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-10.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-10.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-10.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-11.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-11.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-11.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-11.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-12.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-12.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-12.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-12.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-13.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-13.1	Michael Rolo	Walk In Ref #9	07/12/11 15:04	Return to Storage
MC1781-14.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-14.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-14.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-14.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-15.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-15.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-15.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-15.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-16.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-16.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-16.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-16.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-17.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-17.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-17.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-17.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage
MC1781-18.1	Walk In Ref #9	Michael Rolo	07/11/11 15:23	Retrieve from Storage
MC1781-18.1	Michael Rolo	Walk In Ref #9	07/11/11 21:24	Return to Storage
MC1781-18.1	Walk In Ref #9	Crystall Woodruff	07/12/11 10:31	Retrieve from Storage
MC1781-18.1	Crystall Woodruff	Walk In Ref #9	07/12/11 11:46	Return to Storage

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25508-MB	BI6083.D	1	07/21/11	AL	07/11/11	OP25508	GBI266

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC1781-1, MC1781-2, MC1781-3, MC1781-4, MC1781-5, MC1781-6, MC1781-7, MC1781-8, MC1781-9, MC1781-10, MC1781-11, MC1781-12, MC1781-13, MC1781-14, MC1781-15, MC1781-16, MC1781-17, MC1781-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	17000	17000	ug/kg	
	C9-C18 Aliphatics	ND	8300	8300	ug/kg	
	C19-C36 Aliphatics	ND	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	56%	40-140%
321-60-8	2-Fluorobiphenyl	78%	40-140%
580-13-2	2-Bromonaphthalene	62%	40-140%
3386-33-2	1-Chlorooctadecane	49%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25508-BS	BI6084.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
OP25508-BSD	BI6085.D	1	07/21/11	AL	07/11/11	OP25508	GBI266

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC1781-1, MC1781-2, MC1781-3, MC1781-4, MC1781-5, MC1781-6, MC1781-7, MC1781-8, MC1781-9, MC1781-10, MC1781-11, MC1781-12, MC1781-13, MC1781-14, MC1781-15, MC1781-16, MC1781-17, MC1781-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	34200	24500	72 [a]	29100	82 [a]	17	40-140/25
	C9-C18 Aliphatics	12800	6500	50	7100	54	9	40-140/25
	C19-C36 Aliphatics	17100	9350	54	10500	60	12	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	53%	61%	40-140%
321-60-8	2-Fluorobiphenyl	77%	81%	40-140%
580-13-2	2-Bromonaphthalene	69%	69%	40-140%
3386-33-2	1-Chlorooctadecane	44%	49%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP25508-BS	2-Methylnaphthalene	965	40.6	4.0%	5.0
OP25508-BS	Naphthalene	947	79.2	7.7%*	5.0
OP25508-BSD	2-Methylnaphthalene	1170	45.8	3.8%	5.0
OP25508-BSD	Naphthalene	1130	92.2	7.5%*	5.0

(a) Aromatic breakthrough (naphthalene and/or 2-methylnaphthalene) exceeded 5% method limit.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP25508-MS	BI6086.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
OP25508-MSD	BI6087.D	1	07/21/11	AL	07/11/11	OP25508	GBI266
MC1781-2	BI6088.D	1	07/21/11	AL	07/11/11	OP25508	GBI266

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC1781-1, MC1781-2, MC1781-3, MC1781-4, MC1781-5, MC1781-6, MC1781-7, MC1781-8, MC1781-9, MC1781-10, MC1781-11, MC1781-12, MC1781-13, MC1781-14, MC1781-15, MC1781-16, MC1781-17, MC1781-18

CAS No.	Compound	MC1781-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	23800		40300	46900	58	58500	86	22	40-140/25
	C9-C18 Aliphatics	10000	U	15100	15400	102	17300	114	12	40-140/25
	C19-C36 Aliphatics	19600		20100	39500	98	33500	70	16	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC1781-2	Limits
84-15-1	o-Terphenyl	63%	66%	62%	40-140%
321-60-8	2-Fluorobiphenyl	78%	77%	81%	40-140%
580-13-2	2-Bromonaphthalene	65%	77%	66%	40-140%
3386-33-2	1-Chlorooctadecane	48%	41%	47%	40-140%

Semivolatile Surrogate Recovery Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Method: MADEP EPH REV 1.1 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [a]	S4 [b]
MC1781-1	BI6089.D	64.0	85.0	75.0	53.0
MC1781-2	BI6088.D	62.0	81.0	66.0	47.0
MC1781-3	BI6090.D	62.0	80.0	75.0	51.0
MC1781-4	BI6091.D	60.0	84.0	67.0	52.0
MC1781-5	BI6093.D	63.0	78.0	68.0	50.0
MC1781-6	BI6094.D	60.0	79.0	71.0	47.0
MC1781-7	BI6095.D	63.0	86.0	75.0	50.0
MC1781-8	BI6096.D	67.0	84.0	75.0	55.0
MC1781-9	BI6097.D	67.0	77.0	67.0	48.0
MC1781-10	BI6098.D	71.0	80.0	75.0	48.0
MC1781-11	BI6099.D	56.0	79.0	75.0	34.0* [c]
MC1781-12	BJ4293.D	203.0* [c]	101.0	89.0	71.0
MC1781-13	BI6101.D	66.0	76.0	72.0	54.0
MC1781-14	BI6102.D	60.0	80.0	70.0	47.0
MC1781-15	BI6104.D	62.0	74.0	69.0	45.0
MC1781-16	BJ4294.D	207.0* [c]	107.0	96.0	70.0
MC1781-17	BI6106.D	43.0	89.0	71.0	43.0
MC1781-18	BI6107.D	56.0	85.0	61.0	45.0
OP25508-BS	BI6084.D	53.0	77.0	69.0	44.0
OP25508-BSD	BI6085.D	61.0	81.0	69.0	49.0
OP25508-MB	BI6083.D	56.0	78.0	62.0	49.0
OP25508-MS	BI6086.D	63.0	78.0	65.0	48.0
OP25508-MSD	BI6087.D	66.0	77.0	77.0	41.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 2-Bromonaphthalene	40-140%
S4 = 1-Chlorooctadecane	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to possible matrix interference. Confirmed by refractionation.

GC Surrogate Retention Time Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Check Std: GBI266-CC264
Lab File ID: BI6092.D
Instrument ID: GCBI
Injection Date: 07/22/11
Injection Time: 00:46
Method: MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	12.68	7.88	8.89	15.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC1781-5	BI6093.D	07/22/11	01:23	12.68	7.88	8.89	15.63
MC1781-6	BI6094.D	07/22/11	02:01	12.68	7.88	8.89	15.63
MC1781-7	BI6095.D	07/22/11	02:38	12.68	7.88	8.89	15.63
MC1781-8	BI6096.D	07/22/11	03:16	12.68	7.88	8.89	15.63
MC1781-9	BI6097.D	07/22/11	03:53	12.68	7.88	8.89	15.63
MC1781-10	BI6098.D	07/22/11	04:31	12.68	7.88	8.89	15.63
MC1781-11	BI6099.D	07/22/11	05:08	12.68	7.88	8.89	15.63
MC1781-13	BI6101.D	07/22/11	06:24	12.68	7.88	8.89	15.63
MC1781-14	BI6102.D	07/22/11	07:01	12.68	7.88	8.89	15.63

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Check Std: GBI266-CC264
Lab File ID: BI6103.D
Instrument ID: GCBI
Injection Date: 07/22/11
Injection Time: 07:39
Method: MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	12.68	7.88	8.89	15.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC1781-15	BI6104.D	07/22/11	08:17	12.68	7.88	8.89	15.63
MC1781-17	BI6106.D	07/22/11	09:34	12.68	7.88	8.90	15.63
MC1781-18	BI6107.D	07/22/11	10:12	12.67	7.88	8.90	15.63

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Check Std:	GBJ177-CC173	**Injection Date:**	07/25/11
Lab File ID:	BJ4289.D	**Injection Time:**	19:26
Instrument ID:	GCBJ	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
Check Std	13.38	8.58	9.61	14.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [a] RT	S4 [b] RT
MC1781-12	BJ4293.D	07/25/11	22:01	13.37	8.58	9.62	14.90
MC1781-16	BJ4294.D	07/25/11	22:39	13.37	8.58	9.63	14.90
ZZZZZZ	BJ4298.D	07/26/11	01:10	13.37	8.57	9.61	14.87

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 2-Bromonaphthalene
S4 = 1-Chlorooctadecane

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICC264
Lab FileID: BI6036.D

Response Factor Report magcbi

Method : C:\msdchem\1\METHODS\EPH071911w.M (RTE Integrator)
Title : BMAEPH-WORKING
Last Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration

Calibration Files
1 =bi6034.D 2 =bi6035.D 3 =bi6036.D 4 =bi6037.D
5 =bi6038.D 6 =bi6039.D 7 =bi6040.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	1.092							1.092 E5	0.00
2) naphthalene	1.132	1.081	1.131	1.149	1.294	1.225	1.219	1.176 E5	6.19
3) 2-methylnaphthale	1.093	1.040	1.084	1.090	1.193	1.099	1.064	1.095 E5	4.37
4)s 2-fluorobiphenyl	0.937	0.891	0.929	0.933	1.019	0.925	0.895	0.933 E5	4.51
5) acenaphthylene	1.087	1.038	1.084	1.090	1.188	1.077	1.048	1.088 E5	4.49
6)s 2-bromonaphthalen	6.363	5.998	6.216	6.139	6.464	5.693	5.583	6.065 E4	5.43
7) acenaphthene	1.109	1.058	1.100	1.115	1.237	1.143	1.113	1.125 E5	4.94
8) fluorene	1.100	1.043	1.081	1.067	1.109	1.009	0.991	1.057 E5	4.25
9) phenanthrene	1.323	1.110	1.115	1.095	1.195	1.087	1.077	1.143 E5	7.73
10) anthracene	0.848	0.939	1.036	1.074	1.181	1.079	1.069	1.033 E5	10.46
11)s o-terphenyl	1.080	1.032	1.082	1.102	1.237	1.208	1.311	1.150 E5	8.86
12) fluoranthene	1.118	1.028	1.081	1.102	1.266	1.095	1.120	1.116 E5	6.55
13) pyrene	1.118	1.100	1.176	1.198	1.244	1.132	1.130	1.157 E5	4.43
14) benzo(a)anthracen	1.124	1.051	1.104	1.028	1.155	1.034	1.092	1.084 E5	4.44
15) chrysene	0.877	0.847	0.906	0.999	1.176	1.094	1.088	0.998 E5	12.59
16) benzo(B)fluoranth	1.179	1.116	1.150	1.086	1.153	1.110	1.103	1.128 E5	2.92
17) benzo(k)fluoranth	0.771	0.791	0.881	0.952	1.180	1.064	1.107	0.964 E5	16.47
18) benzo(a)pyrene	1.028	0.979	1.019	1.052	1.222	1.144	1.213	1.094 E5	8.98
19) indeno(1,2,3-cd)p	1.169	0.995	1.000	1.058	1.293	1.461	1.898	1.268 E5	25.66
Quadratic regr.,Force(0,0) for indeno(1,2,3-cd)pyrene									
Coefficient = 0.9996									
Response Ratio = 0.00000 + 88417.57858 *A + 140.89633 *A^2									
20) dibenzo(ah)anthra	0.785	0.903	0.957	0.995	1.156	1.115	1.121	1.005 E5	13.44
21) benzo(ghi)perylen	1.021	0.955	1.011	1.019	1.147	1.065	1.073	1.041 E5	5.79
22)s bht	0.100							0.100	0.00
23)s bht	0.100							0.100	0.00
Signal #2									
25)h c-9	1.347							1.347 E5	0.00
26)h c-10	1.347							1.347 E5	0.00
27) naphthalene #2	1.590	1.241	1.358	1.266	1.223	1.192	1.354	1.318 E5	10.30
28) c-12	1.347							1.347 E5	0.00
29) 2-methylnaphthale	1.552	1.212	1.309	1.235	1.189	1.158	1.429	1.298 E5	11.10
30) c-14	1.347							1.347 E5	0.00
31) c-16	1.347							1.347 E5	0.00
32) c-18	1.347							1.347 E5	0.00
33) c-19	1.293							1.293 E5	0.00
34) c-20	1.293							1.293 E5	0.00
35)s 1-chlorooctadecan	1.201	0.948	0.975	0.972	0.949	0.926	1.132	1.015 E5	10.55
36) c-22	1.293							1.293 E5	0.00
37) c-24	1.293							1.293 E5	0.00
38) c-26	1.293							1.293 E5	0.00
39) c-28	1.293							1.293 E5	0.00
40)h c-30	1.293							1.293 E5	0.00
41)h c-36	1.293							1.293 E5	0.00

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICC264
Lab FileID: BI6036.D

42)s bht	0.100		0.100	0.00
43)s bht	0.100		0.100	0.00
44)s BHT	0.100		0.100	0.00

(#) = Out of Range

EPH071911w.M Thu Jul 21 09:59:21 2011

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICV264
Lab FileID: BI6041.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6041.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 20 Jul 2011 12:45 am
Operator : alysial
Sample   : icv264-50
Misc   : op25494,gbi264,1000,,,2,,
ALS Vial : 16 (Sig #1); 15 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 20 16:47:20 2011
Quant Method : C:\msdchem\1\METHODS\EPH071911w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	110.367 E3	6.1	98	0.00
3		2-methylnaphthalene	109.481	104.074 E3	4.9	96	0.00
4	s	2-fluorobiphenyl	93.283	92.025 E3	1.3	99	0.00
5		acenaphthylene	108.753	103.669 E3	4.7	96	0.00
6	s	2-bromonaphthalene	60.653	61.466 E3	-1.3	99	0.00
7		acenaphthene	112.513	108.645 E3	3.4	99	0.00
8		fluorene	105.718	106.248 E3	-0.5	98	0.00
9		phenanthrene	114.323	102.217 E3	10.6	92	0.00
10		anthracene	103.256	102.791 E3	0.5	99	0.00
11	s	o-terphenyl	115.039	104.827 E3	8.9	97	0.00
12		fluoranthene	111.578	107.221 E3	3.9	99	0.00
13		pyrene	115.689	109.416 E3	5.4	93	0.01
14		benzo(a)anthracene	108.400	113.625 E3	-4.8	103	0.01
15		chrysene	99.806	87.175 E3	12.7	96	0.01
16		benzo(B)fluoranthene	112.813	104.397 E3	7.5	91	0.02
17		benzo(k)fluoranthene	96.386	92.562 E3	4.0	105	0.02
18		benzo(a)pyrene	109.383	97.779 E3	10.6	96	0.02
19		indeno(1,2,3-cd)pyrene	126.765	100.164 E3	21.0	100	0.02
20		dibenzo(ah)anthracene	100.455	95.255 E3	5.2	100	0.02
21		benzo(ghi)perylene	104.149	100.029 E3	4.0	99	0.03
Signal #2							
25	h	c-9	134.712	118.958 E3	11.7	0#	-0.07
26	h	c-10	134.712	121.066 E3	10.1	0#	0.07
27		naphthalene #2	131.755	127.650 E3	3.1	94	0.00
28		c-12	134.712	119.333 E3	11.4	0#	0.00
29		2-methylnaphthalene #2	129.787	122.806 E3	5.4	94	0.00
30		c-14	134.712	118.858 E3	11.8	0#	0.00
31		c-16	134.712	119.556 E3	11.3	0#	0.00

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI264-ICV264
Lab FileID: BI6041.D

32		c-18	134.712	122.537	E3	9.0	0#	0.00
33		c-19	129.318	119.008	E3	8.0	0#	0.00
34		c-20	129.318	118.801	E3	8.1	0#	0.00
35	s	1-chlorooctadecane	101.470	95.818	E3	5.6	98	0.00
36		c-22	129.318	119.972	E3	7.2	0#	0.00
37		c-24	129.318	115.370	E3	10.8	0#	0.00
38		c-26	129.318	112.886	E3	12.7	0#	0.00
39		c-28	129.318	116.678	E3	9.8	0#	0.00
40	h	c-30	129.318	118.722	E3	8.2	0#	1.56#
41	h	c-36	129.318	112.623	E3	12.9	0#	1.79#

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH071911w.M Thu Jul 21 09:57:42 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6081.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6081.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 21 Jul 2011   3:52 pm
Operator : alysial
Sample   : cc264-50, 266
Misc   : op25562,gbi266,11.,,,2,,
ALS Vial : 142 (Sig #1); 141 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 21 16:49:44 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	106.658 E3	9.3	94	0.00
3		2-methylnaphthalene	109.481	102.272 E3	6.6	94	0.00
4	s	2-fluorobiphenyl	93.283	87.875 E3	5.8	95	0.00
5		acenaphthylene	108.753	102.418 E3	5.8	94	0.00
6	s	2-bromonaphthalene	60.653	58.662 E3	3.3	94	0.00
7		acenaphthene	112.513	104.503 E3	7.1	95	0.00
8		fluorene	105.718	102.582 E3	3.0	95	0.00
9		phenanthrene	114.323	105.237 E3	7.9	94	0.00
10		anthracene	103.256	98.577 E3	4.5	95	0.00
11	s	o-terphenyl	115.039	102.510 E3	10.9	95	0.00
12		fluoranthene	111.578	102.281 E3	8.3	95	0.00
13		pyrene	115.689	107.355 E3	7.2	91	0.00
14		benzo(a)anthracene	108.400	107.311 E3	1.0	97	0.00
15		chrysene	99.806	85.673 E3	14.2	95	0.00
16		benzo(B)fluoranthene	112.813	98.751 E3	12.5	86	0.00
17		benzo(k)fluoranthene	96.386	91.944 E3	4.6	104	0.01
18		benzo(a)pyrene	109.383	98.315 E3	10.1	97	0.00
19		indeno(1,2,3-cd)pyrene	126.765	96.282 E3	24.0	96	0.01
20		dibenzo(ah)anthracene	100.455	91.614 E3	8.8	96	0.01
21		benzo(ghi)perylene	104.149	94.933 E3	8.8	94	0.02
Signal #2							
25	h	c-9	134.712	120.051 E3	10.9	0#	0.00
26	h	c-10	134.712	124.966 E3	7.2	0#	0.00
27		naphthalene #2	131.755	130.272 E3	1.1	96	0.00
28		c-12	134.712	123.735 E3	8.1	0#	0.00
29		2-methylnaphthalene #2	129.787	124.627 E3	4.0	95	0.00
30		c-14	134.712	120.626 E3	10.5	0#	0.00
31		c-16	134.712	121.325 E3	9.9	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6081.D

32		c-18	134.712	123.781	E3	8.1	0#	0.00
33		c-19	129.318	120.065	E3	7.2	0#	0.00
34		c-20	129.318	119.741	E3	7.4	0#	0.00
35	s	1-chlorooctadecane	101.470	96.681	E3	4.7	99	-0.01
36		c-22	129.318	120.749	E3	6.6	0#	-0.01
37		c-24	129.318	119.559	E3	7.5	0#	0.00
38		c-26	129.318	118.456	E3	8.4	0#	-0.01
39		c-28	129.318	117.787	E3	8.9	0#	-0.01
40	h	c-30	129.318	119.160	E3	7.9	0#	0.00
41	h	c-36	129.318	114.166	E3	11.7	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Thu Jul 21 16:50:40 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6092.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6092.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 22 Jul 2011 12:46 am
Operator : alysial
Sample   : cc264-50
Misc   : op25508,gbi266,11.99,,,2,,
ALS Vial : 144 (Sig #1); 143 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 22 11:10:52 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	103.328 E3	12.1	91	0.00
3		2-methylnaphthalene	109.481	100.524 E3	8.2	93	0.00
4	s	2-fluorobiphenyl	93.283	86.521 E3	7.2	93	0.00
5		acenaphthylene	108.753	101.194 E3	7.0	93	0.00
6	s	2-bromonaphthalene	60.653	59.495 E3	1.9	96	0.00
7		acenaphthene	112.513	102.010 E3	9.3	93	0.00
8		fluorene	105.718	101.818 E3	3.7	94	0.00
9		phenanthrene	114.323	103.650 E3	9.3	93	0.00
10		anthracene	103.256	97.800 E3	5.3	94	0.00
11	s	o-terphenyl	115.039	100.576 E3	12.6	93	0.00
12		fluoranthene	111.578	100.218 E3	10.2	93	0.00
13		pyrene	115.689	104.884 E3	9.3	89	0.00
14		benzo(a)anthracene	108.400	104.930 E3	3.2	95	0.00
15		chrysene	99.806	85.770 E3	14.1	95	0.00
16		benzo(B)fluoranthene	112.813	109.133 E3	3.3	95	0.00
17		benzo(k)fluoranthene	96.386	79.976 E3	17.0	91	0.01
18		benzo(a)pyrene	109.383	97.684 E3	10.7	96	0.01
19		indeno(1,2,3-cd)pyrene	126.765	96.532 E3	23.8	96	0.02
20		dibenzo(ah)anthracene	100.455	90.513 E3	9.9	95	0.02
21		benzo(ghi)perylene	104.149	94.940 E3	8.8	94	0.02
Signal #2							
25	h	c-9	134.712	115.658 E3	14.1	0#	0.00
26	h	c-10	134.712	121.618 E3	9.7	0#	0.00
27		naphthalene #2	131.755	126.507 E3	4.0	93	0.00
28		c-12	134.712	121.002 E3	10.2	0#	0.00
29		2-methylnaphthalene #2	129.787	121.382 E3	6.5	93	0.00
30		c-14	134.712	118.306 E3	12.2	0#	-0.01
31		c-16	134.712	119.328 E3	11.4	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6092.D

32		c-18	134.712	121.355	E3	9.9	0#	0.00
33		c-19	129.318	118.500	E3	8.4	0#	0.00
34		c-20	129.318	117.491	E3	9.1	0#	0.00
35	s	1-chlorooctadecane	101.470	96.583	E3	4.8	99	-0.01
36		c-22	129.318	119.576	E3	7.5	0#	-0.01
37		c-24	129.318	118.086	E3	8.7	0#	-0.01
38		c-26	129.318	117.156	E3	9.4	0#	-0.01
39		c-28	129.318	116.685	E3	9.8	0#	-0.01
40	h	c-30	129.318	117.724	E3	9.0	0#	0.00
41	h	c-36	129.318	114.422	E3	11.5	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Fri Jul 22 13:23:23 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6103.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6103.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 22 Jul 2011   7:39 am
Operator : alysial
Sample   : cc264-50
Misc   : op25508,gbi266,11.99,,,2,,
ALS Vial : 144 (Sig #1); 143 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 22 11:12:17 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	106.851 E3	9.1	94	0.00
3		2-methylnaphthalene	109.481	103.779 E3	5.2	96	0.00
4	s	2-fluorobiphenyl	93.283	89.182 E3	4.4	96	0.00
5		acenaphthylene	108.753	104.352 E3	4.0	96	0.00
6	s	2-bromonaphthalene	60.653	61.134 E3	-0.8	98	0.00
7		acenaphthene	112.513	105.220 E3	6.5	96	0.00
8		fluorene	105.718	105.086 E3	0.6	97	0.00
9		phenanthrene	114.323	106.644 E3	6.7	96	0.00
10		anthracene	103.256	101.074 E3	2.1	98	0.00
11	s	o-terphenyl	115.039	103.278 E3	10.2	95	0.00
12		fluoranthene	111.578	103.389 E3	7.3	96	0.00
13		pyrene	115.689	107.975 E3	6.7	92	0.00
14		benzo(a)anthracene	108.400	110.351 E3	-1.8	100	0.00
15		chrysene	99.806	88.668 E3	11.2	98	0.00
16		benzo(B)fluoranthene	112.813	111.494 E3	1.2	97	0.00
17		benzo(k)fluoranthene	96.386	84.435 E3	12.4	96	0.02
18		benzo(a)pyrene	109.383	100.114 E3	8.5	98	0.01
19		indeno(1,2,3-cd)pyrene	126.765	98.745 E3	22.1	99	0.02
20		dibenzo(ah)anthracene	100.455	93.347 E3	7.1	98	0.02
21		benzo(ghi)perylene	104.149	97.371 E3	6.5	96	0.03
Signal #2							
25	h	c-9	134.712	123.530 E3	8.3	0#	0.00
26	h	c-10	134.712	129.113 E3	4.2	0#	0.00
27		naphthalene #2	131.755	134.192 E3	-1.8	99	0.00
28		c-12	134.712	127.788 E3	5.1	0#	0.00
29		2-methylnaphthalene #2	129.787	128.366 E3	1.1	98	0.00
30		c-14	134.712	124.451 E3	7.6	0#	-0.01
31		c-16	134.712	124.862 E3	7.3	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6103.D

32		c-18	134.712	126.571	E3	6.0	0#	0.00
33		c-19	129.318	123.416	E3	4.6	0#	0.00
34		c-20	129.318	122.367	E3	5.4	0#	0.00
35	s	1-chlorooctadecane	101.470	100.185	E3	1.3	103	-0.01
36		c-22	129.318	123.962	E3	4.1	0#	-0.01
37		c-24	129.318	122.729	E3	5.1	0#	-0.01
38		c-26	129.318	122.372	E3	5.4	0#	-0.01
39		c-28	129.318	121.093	E3	6.4	0#	-0.02
40	h	c-30	129.318	122.264	E3	5.5	0#	0.00
41	h	c-36	129.318	119.033	E3	8.0	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Fri Jul 22 13:23:28 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6108.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bi6108.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 22 Jul 2011 10:49 am
Operator : alysial
Sample   : cc264-50 (Sig #1); ecc264-50 (Sig #2)
Misc   : op25508,gbi266,11.99,,,2,,
ALS Vial : 142 (Sig #1); 141 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 22 13:19:36 2011
Quant Method : C:\msdchem\1\METHODS\EPH072111w.M
Quant Title : BMAEPH-WORKING
QLast Update : Wed Jul 20 16:45:44 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	117.583	101.665 E3	13.5	90	0.00
3		2-methylnaphthalene	109.481	98.679 E3	9.9	91	0.00
4	s	2-fluorobiphenyl	93.283	85.315 E3	8.5	92	0.00
5		acenaphthylene	108.753	100.055 E3	8.0	92	0.00
6	s	2-bromonaphthalene	60.653	58.666 E3	3.3	94	0.00
7		acenaphthene	112.513	101.352 E3	9.9	92	0.00
8		fluorene	105.718	100.731 E3	4.7	93	0.00
9		phenanthrene	114.323	102.509 E3	10.3	92	0.00
10		anthracene	103.256	96.898 E3	6.2	94	0.00
11	s	o-terphenyl	115.039	99.267 E3	13.7	92	0.00
12		fluoranthene	111.578	99.202 E3	11.1	92	0.00
13		pyrene	115.689	103.630 E3	10.4	88	0.00
14		benzo(a)anthracene	108.400	103.688 E3	4.3	94	0.00
15		chrysene	99.806	85.329 E3	14.5	94	0.00
16		benzo(B)fluoranthene	112.813	106.197 E3	5.9	92	0.00
17		benzo(k)fluoranthene	96.386	81.082 E3	15.9	92	0.02
18		benzo(a)pyrene	109.383	96.776 E3	11.5	95	0.01
19		indeno(1,2,3-cd)pyrene	126.765	95.151 E3	24.9	95	0.02
20		dibenzo(ah)anthracene	100.455	90.014 E3	10.4	94	0.02
21		benzo(ghi)perylene	104.149	93.948 E3	9.8	93	0.02
Signal #2							
25	h	c-9	134.712	121.877 E3	9.5	0#	0.00
26	h	c-10	134.712	128.110 E3	4.9	0#	0.00
27		naphthalene #2	131.755	132.744 E3	-0.8	98	0.00
28		c-12	134.712	126.389 E3	6.2	0#	0.00
29		2-methylnaphthalene #2	129.787	126.968 E3	2.2	97	0.00
30		c-14	134.712	122.788 E3	8.9	0#	-0.01
31		c-16	134.712	123.345 E3	8.4	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBI266-CC264
Lab FileID: BI6108.D

32		c-18	134.712	125.893	E3	6.5	0#	0.00
33		c-19	129.318	122.218	E3	5.5	0#	0.00
34		c-20	129.318	121.476	E3	6.1	0#	0.00
35	s	1-chlorooctadecane	101.470	97.667	E3	3.7	100	-0.01
36		c-22	129.318	122.605	E3	5.2	0#	-0.01
37		c-24	129.318	121.298	E3	6.2	0#	-0.01
38		c-26	129.318	120.809	E3	6.6	0#	-0.01
39		c-28	129.318	120.539	E3	6.8	0#	-0.01
40	h	c-30	129.318	121.462	E3	6.1	0#	0.00
41	h	c-36	129.318	117.864	E3	8.9	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	109.238	0.000	E3	100.0#	0#	-5.76#
22	s	bht	0.100	0.000		100.0#	0#	-22.00#
23	s	bht	0.100	0.000		100.0#	0#	-23.00#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-22.00#
43	s	bht	0.100	0.000		100.0#	0#	-23.00#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072111w.M Fri Jul 22 14:43:03 2011

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICC173
Lab FileID: BJ4169.D

Response Factor Report MAGCBJ

Method : C:\msdchem\1\METHODS\EPH071911w.M (RTE Integrator)
Title : BMAEPH-master method
Last Update : Wed Jul 20 09:15:46 2011
Response via : Initial Calibration

Calibration Files
1 =bj4167.D 2 =bj4168.D 3 =bj4169.D 4 =bj4170.D
5 =bj4171.D 6 =bj4172.D 7 =bj4173.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	1.457							1.457 E5	0.00
2) naphthalene	1.751	1.480	1.583	1.592	1.749	1.576	1.469	1.600 E5	7.10
3) 2-methylnaphthale	1.672	1.403	1.492	1.481	1.631	1.465	1.357	1.500 E5	7.61
4)s 2-fluorobiphenyl	1.441	1.208	1.287	1.281	1.398	1.288	1.213	1.302 E5	6.73
5) acenaphthylene	1.658	1.391	1.478	1.465	1.598	1.417	1.334	1.477 E5	7.78
6)s 2-bromonaphthalen	9.379	7.749	8.155	7.938	8.327	6.824	5.802	7.739 E4	14.77
7) acenaphthene	1.702	1.437	1.540	1.535	1.776	1.659	1.632	1.612 E5	7.14
8) fluorene	1.673	1.407	1.501	1.497	1.636	1.467	1.398	1.511 E5	7.03
9) phenanthrene	1.661	1.397	1.494	1.489	1.620	1.409	1.282	1.479 E5	8.90
10) anthracene	1.623	1.388	1.478	1.478	1.673	1.617	1.612	1.553 E5	6.73
11)s o-terphenyl	1.637	1.385	1.485	1.489	1.659	1.516	1.471	1.520 E5	6.35
12) fluoranthene	1.618	1.376	1.469	1.466	1.606	1.447	1.357	1.477 E5	6.89
13) pyrene	1.701	1.421	1.524	1.524	1.673	1.592	1.565	1.571 E5	6.07
14) benzo(a)anthracen	1.507	1.286	1.355	1.332	1.387	1.120	0.977	1.281 E5	13.84
15) chrysene	1.592	1.359	1.452	1.462	1.695	1.619	1.650	1.547 E5	7.97
16) benzo(B)fluoranth	1.570	1.294	1.343	1.286	1.269	1.021	0.879	1.237 E5	18.18
17) benzo(k)fluoranth	1.489	1.325	1.403	1.436	1.705	1.643	1.598	1.514 E5	9.14
18) benzo(a)pyrene	1.551	1.337	1.403	1.380	1.541	1.385	1.302	1.414 E5	6.80
19) indeno(1,2,3-cd)p	1.793	1.150	1.190	1.115	1.096	0.859	0.743	1.135 E5	29.42
Quadratic regr.,Force(0,0) for indeno(1,2,3-cd)pyrene									
Coefficient = 0.9977									
Response Ratio = 0.00000 + 71594.95188 *A + 534.18082 *A^2									
20) dibenzo(ah)anthra	1.090	1.290	1.405	1.420	1.583	1.395	1.285	1.353 E5	11.27
21) benzo(ghi)perylen	1.515	1.313	1.423	1.408	1.652	1.663	1.540	1.502 E5	8.62
22)s bht	0.100							0.100	0.00
23)s bht	0.100							0.100	0.00
Signal #2									
25)h c-9	1.159							1.159 E5	0.00
26)h c-10	1.159							1.159 E5	0.00
27) naphthalene #2	1.197	1.310	1.220	1.195	1.175	1.136	1.339	1.225 E5	5.99
28) c-12	1.159							1.159 E5	0.00
29) 2-methylnaphthale	1.166	1.280	1.202	1.178	1.160	1.121	1.298	1.201 E5	5.43
30) c-14	1.159							1.159 E5	0.00
31) c-16	1.159							1.159 E5	0.00
32) c-18	1.159							1.159 E5	0.00
33) c-19	1.162							1.162 E5	0.00
34) c-20	1.162							1.162 E5	0.00
35)s 1-chlorooctadecan	0.821	0.910	0.853	0.847	0.926	1.028	1.990	1.054 E5	39.72
Linear regr.,Force(0,0)for 1-chlorooctadecane									
Coefficient = 0.9975									
Response Ratio = 0.00000 + 83999.36153 *A									
36) c-22	1.162							1.162 E5	0.00
37) c-24	1.162							1.162 E5	0.00

Initial Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICC173
Lab FileID: BJ4169.D

38)	c-26	1.162		1.162 E5	0.00
39)	c-28	1.162		1.162 E5	0.00
40)h	c-30	1.162		1.162 E5	0.00
41)h	c-36	1.162		1.162 E5	0.00
42)s	bht	0.100		0.100	0.00
43)s	bht	0.100		0.100	0.00
44)s	BHT	0.100		0.100	0.00

(#) = Out of Range

EPH071911w.M Wed Jul 20 09:21:04 2011

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICV173
Lab FileID: BJ4174.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bj4174.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 20 Jul 2011   1:07 am
Operator : alysial
Sample   : icv173-50
Misc   : op25547,gbj173,1000,,,2,,
ALS Vial : 16 (Sig #1); 15 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 20 09:17:45 2011
Quant Method : C:\msdchem\1\METHODS\EPH071911w.M
Quant Title : BMAEPH-master method
QLast Update : Wed Jul 20 09:07:39 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000 E3	100.0#	0#	-6.51#
2		naphthalene	160.014	147.390 E3	7.9	93	0.00
3		2-methylnaphthalene	150.037	136.385 E3	9.1	91	0.00
4	s	2-fluorobiphenyl	130.217	121.287 E3	6.9	94	0.00
5		acenaphthylene	147.730	134.246 E3	9.1	91	0.00
6	s	2-bromonaphthalene	77.391	76.223 E3	1.5	93	0.00
7		acenaphthene	161.162	145.053 E3	10.0	94	0.00
8		fluorene	151.136	139.964 E3	7.4	93	0.00
9		phenanthrene	147.900	133.168 E3	10.0	89	0.01
10		anthracene	155.266	136.997 E3	11.8	93	0.01
11	s	o-terphenyl	152.015	136.990 E3	9.9	92	0.00
12		fluoranthene	147.707	139.160 E3	5.8	95	0.01
13		pyrene	157.141	139.163 E3	11.4	91	0.01
14		benzo(a)anthracene	128.057	131.409 E3	-2.6	97	0.01
15		chrysene	154.710	135.357 E3	12.5	93	0.02
16		benzo(B)fluoranthene	123.738	129.259 E3	-4.5	96	0.02
17		benzo(k)fluoranthene	151.425	134.998 E3	10.8	96	0.02
18		benzo(a)pyrene	141.423	127.901 E3	9.6	91	0.02
19		indeno(1,2,3-cd)pyrene	113.503	115.632 E3	-1.9	97	0.02
20		dibenzo(ah)anthracene	135.274	128.541 E3	5.0	91	0.02
21		benzo(ghi)perylene	150.218	129.541 E3	13.8	91	0.03
Signal #2							
25	h	c-9	115.862	108.411 E3	6.4	0#	0.00
26	h	c-10	115.862	110.602 E3	4.5	0#	0.00
27		naphthalene #2	122.471	119.301 E3	2.6	98	0.00
28		c-12	115.862	111.128 E3	4.1	0#	0.00
29		2-methylnaphthalene #2	120.077	116.599 E3	2.9	97	0.00
30		c-14	115.862	110.933 E3	4.3	0#	0.00

Initial Calibration Verification

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ173-ICV173
Lab FileID: BJ4174.D

31		c-16	115.862	110.860	E3	4.3	0#	0.00
32		c-18	115.862	115.109	E3	0.6	0#	0.00
33		c-19	116.249	108.835	E3	6.4	0#	0.00
34		c-20	116.249	107.679	E3	7.4	0#	0.00
35	s	1-chlorooctadecane	105.364	84.471	E3	19.8	99	0.00
36		c-22	116.249	109.707	E3	5.6	0#	0.00
37		c-24	116.249	105.273	E3	9.4	0#	0.00
38		c-26	116.249	106.488	E3	8.4	0#	0.00
39		c-28	116.249	106.020	E3	8.8	0#	0.00
40	h	c-30	116.249	106.208	E3	8.6	0#	0.00
41	h	c-36	116.249	100.327	E3	13.7	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000	E3	100.0#	0# -6.51#
22	s	bht	0.100	0.000		100.0#	0# -24.00#
23	s	bht	0.100	0.000		100.0#	0# -24.49#

Signal #2

42	s	bht	0.100	0.000		100.0#	0# -24.00#
43	s	bht	0.100	0.000		100.0#	0# -24.50#
44	s	BHT	0.100	0.000		100.0#	0# -25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH071911w.M Wed Jul 20 09:21:25 2011

5.6.8

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4289.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bj4289.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 25 Jul 2011   7:26 pm
Operator : alysial
Sample   : cc173-50
Misc   : op25592,gbj177,1000,,,2,,
ALS Vial : 92 (Sig #1); 91 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 26 09:12:39 2011
Quant Method : C:\msdchem\1\METHODS\EPH072511w.M
Quant Title : BMAEPH-master method
QLast Update : Mon Jul 25 10:26:03 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	160.014	153.119 E3	4.3	97	0.00
3		2-methylnaphthalene	150.037	143.671 E3	4.2	96	0.00
4	s	2-fluorobiphenyl	130.217	124.399 E3	4.5	97	0.00
5		acenaphthylene	147.730	141.302 E3	4.4	96	0.00
6	s	2-bromonaphthalene	77.391	77.014 E3	0.5	94	0.00
7		acenaphthene	161.162	149.937 E3	7.0	97	0.00
8		fluorene	151.136	145.639 E3	3.6	97	0.00
9		phenanthrene	147.900	144.676 E3	2.2	97	0.00
10		anthracene	155.266	142.015 E3	8.5	96	0.00
11	s	o-terphenyl	152.015	144.694 E3	4.8	97	0.00
12		fluoranthene	147.707	142.996 E3	3.2	97	0.00
13		pyrene	157.141	148.027 E3	5.8	97	0.00
14		benzo(a)anthracene	128.057	128.790 E3	-0.6	95	0.00
15		chrysene	154.710	143.130 E3	7.5	99	0.00
16		benzo(B)fluoranthene	123.738	128.617 E3	-3.9	96	0.00
17		benzo(k)fluoranthene	151.425	138.085 E3	8.8	98	0.00
18		benzo(a)pyrene	141.423	135.994 E3	3.8	97	0.00
19		indeno(1,2,3-cd)pyrene	113.503	114.950 E3	-1.3	97	0.00
20		dibenzo(ah)anthracene	135.274	126.615 E3	6.4	90	0.00
21		benzo(ghi)perylene	150.218	132.408 E3	11.9	93	0.00
Signal #2							
25	h	c-9	115.862	113.090 E3	2.4	0#	0.00
26	h	c-10	115.862	117.939 E3	-1.8	0#	0.00
27		naphthalene #2	122.471	125.106 E3	-2.2	103	0.00
28		c-12	115.862	117.728 E3	-1.6	0#	0.00
29		2-methylnaphthalene #2	120.077	120.973 E3	-0.7	101	0.00
30		c-14	115.862	115.116 E3	0.6	0#	0.00
31		c-16	115.862	115.568 E3	0.3	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4289.D

32		c-18	115.862	120.463	E3	-4.0	0#	0.00	
33		c-19	116.249	112.707	E3	3.0	0#	0.00	
34		c-20	116.249	111.340	E3	4.2	0#	0.00	
35	s	1-chlorooctadecane	105.364	84.161	E3	20.1	99	0.00	
36		c-22	116.249	112.964	E3	2.8	0#	0.00	
37		c-24	116.249	111.189	E3	4.4	0#	0.00	
38		c-26	116.249	110.650	E3	4.8	0#	0.00	
39		c-28	116.249	109.403	E3	5.9	0#	0.00	
40	h	c-30	116.249	108.796	E3	6.4	0#	0.00	
41	h	c-36	116.249	104.958	E3	9.7	0#	0.00	

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000	E3	100.0#	0#	-6.50#
22	s	bht	0.100	0.000		100.0#	0#	-24.00#
23	s	bht	0.100	0.000		100.0#	0#	-24.49#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-24.00#
43	s	bht	0.100	0.000		100.0#	0#	-24.50#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072511w.M Tue Jul 26 11:15:49 2011

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4300.D

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : bj4300.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On   : 26 Jul 2011   2:24 am
Operator : alysial
Sample   : cc173-50
Misc   : op25610,gbj177,1000,,,2,,
ALS Vial : 94 (Sig #1); 93 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 26 09:10:49 2011
Quant Method : C:\msdchem\1\METHODS\EPH072511w.M
Quant Title : BMAEPH-master method
QLast Update : Mon Jul 25 10:26:03 2011
Response via : Initial Calibration
Integrator: RTE

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 75% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 125%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	160.014	153.803 E3	3.9	97	0.00
3		2-methylnaphthalene	150.037	145.785 E3	2.8	98	0.00
4	s	2-fluorobiphenyl	130.217	126.510 E3	2.8	98	0.00
5		acenaphthylene	147.730	145.213 E3	1.7	98	0.00
6	s	2-bromonaphthalene	77.391	80.390 E3	-3.9	99	0.00
7		acenaphthene	161.162	150.444 E3	6.7	98	0.00
8		fluorene	151.136	148.072 E3	2.0	99	0.00
9		phenanthrene	147.900	147.360 E3	0.4	99	0.00
10		anthracene	155.266	145.388 E3	6.4	98	0.00
11	s	o-terphenyl	152.015	146.986 E3	3.3	99	0.00
12		fluoranthene	147.707	145.320 E3	1.6	99	0.00
13		pyrene	157.141	150.905 E3	4.0	99	0.00
14		benzo(a)anthracene	128.057	132.848 E3	-3.7	98	0.00
15		chrysene	154.710	146.361 E3	5.4	101	0.00
16		benzo(B)fluoranthene	123.738	133.880 E3	-8.2	100	0.00
17		benzo(k)fluoranthene	151.425	142.798 E3	5.7	102	0.00
18		benzo(a)pyrene	141.423	140.179 E3	0.9	100	0.00
19		indeno(1,2,3-cd)pyrene	113.503	120.048 E3	-5.8	101	0.00
20		dibenzo(ah)anthracene	135.274	132.075 E3	2.4	94	0.00
21		benzo(ghi)perylene	150.218	137.361 E3	8.6	97	0.00
Signal #2							
25	h	c-9	115.862	115.424 E3	0.4	0#	0.00
26	h	c-10	115.862	119.760 E3	-3.4	0#	0.00
27		naphthalene #2	122.471	126.444 E3	-3.2	104	0.00
28		c-12	115.862	119.662 E3	-3.3	0#	0.00
29		2-methylnaphthalene #2	120.077	122.717 E3	-2.2	102	0.00
30		c-14	115.862	116.825 E3	-0.8	0#	0.00
31		c-16	115.862	117.222 E3	-1.2	0#	0.00

Continuing Calibration Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: GBJ177-CC173
Lab FileID: BJ4300.D

32		c-18	115.862	122.083	E3	-5.4	0#	0.00
33		c-19	116.249	114.205	E3	1.8	0#	0.00
34		c-20	116.249	112.809	E3	3.0	0#	0.00
35	s	1-chlorooctadecane	105.364	84.825	E3	19.5	99	0.00
36		c-22	116.249	114.647	E3	1.4	0#	0.00
37		c-24	116.249	112.260	E3	3.4	0#	0.00
38		c-26	116.249	111.807	E3	3.8	0#	0.00
39		c-28	116.249	110.438	E3	5.0	0#	0.00
40	h	c-30	116.249	109.803	E3	5.5	0#	0.00
41	h	c-36	116.249	106.065	E3	8.8	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	145.673	0.000	E3	100.0#	0#	-6.50#
22	s	bht	0.100	0.000		100.0#	0#	-24.00#
23	s	bht	0.100	0.000		100.0#	0#	-24.49#

Signal #2

42	s	bht	0.100	0.000		100.0#	0#	-24.00#
43	s	bht	0.100	0.000		100.0#	0#	-24.50#
44	s	BHT	0.100	0.000		100.0#	0#	-25.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EPH072511w.M Tue Jul 26 11:15:55 2011

New England ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: MC1781-1 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-4

Wet Weight (Total)	29.969	g
Tare Weight	20.71	g
Dry Weight (Total)	28.07	g
Solids, Percent	79.5	%

Sample: MC1781-2 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-4.5

Wet Weight (Total)	25.435	g
Tare Weight	16.958	g
Dry Weight (Total)	24.458	g
Solids, Percent	88.5	%

Sample: MC1781-3 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-0.5

Wet Weight (Total)	25.081	g
Tare Weight	18.252	g
Dry Weight (Total)	23.432	g
Solids, Percent	75.9	%

Sample: MC1781-4 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS18-20110701-2.0

Wet Weight (Total)	33.423	g
Tare Weight	24.42	g
Dry Weight (Total)	32.506	g
Solids, Percent	89.8	%

Sample: MC1781-5 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-0.5

Wet Weight (Total)	27.517	g
Tare Weight	18.403	g
Dry Weight (Total)	26.505	g
Solids, Percent	88.9	%

Sample: MC1781-6 **Analyzed:** 11-JUL-11 by HS **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-2.0

Wet Weight (Total)	30.494	g
Tare Weight	21.45	g
Dry Weight (Total)	29.53	g
Solids, Percent	89.3	%

Percent Solids Raw Data Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: MC1781-7 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-4.0

Wet Weight (Total)	25.29	g
Tare Weight	18.857	g
Dry Weight (Total)	24.688	g
Solids, Percent	90.6	%

Sample: MC1781-8 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS19-20110701-4.5

Wet Weight (Total)	26.505	g
Tare Weight	19.947	g
Dry Weight (Total)	25.81	g
Solids, Percent	89.4	%

Sample: MC1781-9 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-0.5

Wet Weight (Total)	24.529	g
Tare Weight	17.197	g
Dry Weight (Total)	23.893	g
Solids, Percent	91.3	%

Sample: MC1781-10 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-2.0

Wet Weight (Total)	28.429	g
Tare Weight	21.134	g
Dry Weight (Total)	27.119	g
Solids, Percent	82	%

Sample: MC1781-11 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-4.0

Wet Weight (Total)	25.44	g
Tare Weight	19.373	g
Dry Weight (Total)	23.279	g
Solids, Percent	64.4	%

Sample: MC1781-12 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS20-20110701-4.5

Wet Weight (Total)	27.764	g
Tare Weight	17.646	g
Dry Weight (Total)	26.129	g
Solids, Percent	83.8	%

Percent Solids Raw Data Summary

Job Number: MC1781
Account: ELTNN Empirical Labs
Project: TETIFLJX:Mayport 1585

Sample: MC1781-13 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-0.5

Wet Weight (Total)	28.167	g
Tare Weight	20.065	g
Dry Weight (Total)	27.216	g
Solids, Percent	88.3	%

Sample: MC1781-14 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-2

Wet Weight (Total)	30.126	g
Tare Weight	21.968	g
Dry Weight (Total)	28.946	g
Solids, Percent	85.5	%

Sample: MC1781-15 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS6-20110701-2

Wet Weight (Total)	35.646	g
Tare Weight	26.076	g
Dry Weight (Total)	34.337	g
Solids, Percent	86.3	%

Sample: MC1781-16 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS6-20110701-4

Wet Weight (Total)	30.607	g
Tare Weight	21.63	g
Dry Weight (Total)	29.463	g
Solids, Percent	87.3	%

Sample: MC1781-17 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-4

Wet Weight (Total)	30.679	g
Tare Weight	21.217	g
Dry Weight (Total)	28.292	g
Solids, Percent	74.8	%

Sample: MC1781-18 **Analyzed:** 12-JUL-11 by CF **Method:** SM21 2540 B MOD.
ClientID: MPT-1343-SS21-20110701-4.5

Wet Weight (Total)	25.62	g
Tare Weight	18.624	g
Dry Weight (Total)	24.479	g
Solids, Percent	83.7	%