

INITIAL ABATEMENT ACTION REPORT

Building AS-4146, Probe 49

for

Marine Corps Air Station, New River, NC

Initial Abatement Action Report

A. Site Information

1. Site Identification

- ≡ Date of Report: **June 15, 2009**
- ≡ Facility I.D.: **V-002740** UST Incident Number (if known): **32542**
- ≡ Site Name: **Marine Corps Air Station – New River Rapid Refuel System**
- ≡ Site Street Address: **Building AS-140, Attn: Fuels Officer, MCAS New River, NC 28545**
- ≡ City/Town: **MCAS New River** Zip Code: **28545** County: **Onslow**
- ≡ Description of Geographical Data Point (e.g., diesel fill port): **Building AS-4146, Probe 49**
- ≡ Location Method (GPS, topographical map, other): **Topographical Map**
- ≡ Latitude (decimal degrees): **34.71.8** Longitude (decimal degrees): **-77.45.1**

2. Information about Contacts Associated with the Leaking UST System (Addresses must include street, city, state, zip code and mailing address, if different).

- ≡ UST Owner: **Marine Corps Base Camp Lejeune (USMC)**
Address: **PSC Box 20004, Attn: EMD, Camp Lejeune MCB, NC 28542**
Tel.: **910-451-9660**
- ≡ UST Operator: **Marine Corps Air Station, New River, Fuels Division (USMC)**
Address: **Building AS-140, Attn: Fuels Officer, MCAS New River, NC 28545**
Tel: **910-451-9660**
- ≡ Property Owner: **Commanding Officer, MCB Camp Lejeune**
Address: **PSC Box 20004, Camp LeJeune MCB, NC 28542**
Tel: **910-451-9660**
- ≡ Property Occupant: **Marine Corps Air Station, New River, Fuels Division (USMC)**
Address: **Building AS-140, Attn: Fuels Officer, MCAS New River, NC 28545**
Tel: **910-451-9660**
- ≡ Consultant/Contractor: **The Conti Group/Michael Baker Jr., Inc.**
Address: **One Cragwood Place, South Plainfield, NJ 07080**
Tel: **(908) 791-4145**
- ≡ Analytical Laboratory: **SGS Environmental Services**
State Certification No. **#481**
Address: **5500 Business Drive, Wilmington, NC 28405**
Tel: **910-350-1903**

3. Information about Release

- ≡ Date Discovered: **Confirmed 04/03/2009**
- ≡ Estimated Quantity of Release: **Unknown**
- ≡ Cause of Release: **Fuel was discovered in a storm drain between Building AS 4146 and Canal Street at Campbell and White Streets. The cause of the release was a leak in a JP-5 transfer pipeline near Probe 49 and Building AS 4146. Tracer testing was completed at the site and the leak was located near Probe 49.**
- ≡ Source of Release (Dispenser/Piping/UST): **6-inch Fiberglass Transfer Pipeline**
- ≡ Sizes and contents of UST system(s) from which the release occurred: **The New River Air Station contains a JP-5 fueling system consisting of: the Campbell Street Bulk Fuel Farm with four ASTs capable of holding 200,000 gallons each, transfer pipelines, and two Rapid Refueler Systems. There is approximately 4,000 feet of 6-inch single wall fiberglass underground transfer piping and 1000 feet of 8-inch stainless steel transfer piping. In a typical month approximately 350,000 gallons of JP-5 is transferred and in a typical year approximately 3.8 million gallons of JP-5 is transferred to the Rapid Refueler Systems. The Rapid Refuelers are divided into two distinct systems identified as the A and B system and C and D system. At the Rapid Refuelers**

there are four underground storage tanks, 2 USTs capable of 30,000 gallons each at the A and B system, and 2 USTs capable of 20,000 gallons each at the C and D system. The 30,000 gallon USTs are double wall fiberglass tanks, and the 20,000 gallon USTs are single wall fiberglass tanks. In addition, there are two fuel product recovery tanks at the Rapid Refueler Systems, one 2,500 gallon (A and B) and one 1,000 gallon (C and D). The 2,500 gallon UST is a double wall fiberglass tank and the 1,000 gallon UST is single wall carbon steel.

4. Certification (*The title page must display the seal and signature of the certifying P.E. or L.G. and the name and certification number of the company or corporation, if applicable [See 15A NCAC 2L .0103(e)].*)

I, Joseph H. Burawa, a Licensed Geologist in the State of North Carolina (#2120) for Michael Baker, Jr., Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

(Please Affix Seal and Signature)

Michael Baker, Jr., Inc. is licensed to practice geology and engineering in North Carolina. The certification number of the company or corporation is C-372.



B. Site History and Characterization

1. Provide UST owner and operator information.

- ⇒ List the names, addresses, telephone numbers, and dates of ownership/operation of all previous UST owners and operators of the UST system(s). Present in table form (Use Reporting Table B-2, Site History, UST Owner/Operator and Other RP Information, from the *Guidelines*, Appendix B.).

See Table B-2 for UST owner and operator information.

2. Provide UST information (inclusive of all USTs, currently and historically in place at facility). For each UST, provide the following information in table form (Use Reporting Table B-1, Site History, UST/AST System and Other Release Information, from the *Guidelines*, Appendix B.):

- ⇒ Tank identification number (keyed to a site map showing the locations of all UST systems);
- ⇒ Last contents of tank;
- ⇒ Previous contents of tank (if any);
- ⇒ Capacity of tank in gallons;
- ⇒ Construction (material and structure);
- ⇒ Tank dimensions;
- ⇒ Installation date;
- ⇒ Description of piping and pump(s) associated with each UST;
- ⇒ Status of UST (in use or not in use, closed in place, closed by removal; date of last use, date of closure); and
- ⇒ Indication that a release was or was not associated with the tank or associated piping or pump(s).

Provide discussion to supplement Table B-1 and the UST location map in order to clarify the spatial and historical relationships among tanks and between tanks and piping and dispensers. Provide information about any historical compliance issues.

See Table B-1 for UST information. See Figure 4 for a UST location map.

3. Provide non-UST information.

- ⇒ List, describe, and indicate location of ASTs and associated piping and pump(s) currently and historically in place at facility) and describe historical releases. For each AST, present the information in table form (Use Reporting Table B-1, Site History, UST/AST System and Other Release Information, from the *Guidelines*, Appendix B.); and

See Table B-1.

4. Provide a comprehensive description of the release, including date discovered, cause and source (including tank identification number and contents), and the relationship of historical UST releases, non-UST releases, and off-site releases (indicate incident number) to contamination from current release.

On January 30, 2009 fuel was discovered in a storm water drainage ditch between Building AS 4146 and the intersection of Campbell and White Streets, see Figure 2, and reported to NCDENR Wilmington Office. The source was initially unknown. The JP-5 transfer line was secured and leak detection equipment and Tracer testing was scheduled. Background samples of probes were taken prior to inoculation and the system was inoculated with Tracer element "A" the week of March 9, 2009. Inoculates were circulated throughout the system and samples were taken March 26 and 27, 2009. On April 3, 2009 the results indicated a tracer hit at probe 49, which is located in the area of the suspected release in the JP-5 line. The tracer test results are provided in Appendix A.

5. Provide a brief description of site characteristics (including status of facility (active or inactive), land use of site and surrounding area, water supply, topography, vegetation, surface water, wells, buildings, surface cover, soil type, depth to and nature of bedrock, depth to groundwater, directions of groundwater flow, etc.).

The facility is an active military base. The site is located on the military base and the entire surrounding area is part of the military base.

The surface topography at the Probe 49 area is relatively flat and is located in the Coastal Plain Physiographic Region. The topography of the MCAS New River ranges from approximately 16 to 24 feet above mean sea level. An existing monitoring well was located immediately west of the leak area. This well is identified as USTAS4141-MW15 and was part of a previous investigation related to a previous leak at Probe 52 (incident #3218). A surface water canal is located north of the Probe 49 area, which receives storm water from the area. This canal flows west and then turns southwest and drains into New River. Free product was removed from a storm water manhole located north of the leak area and also from the surface water canal. Booms and absorbent material have been placed in the manhole and canal since January 2009 when the problem was first encountered. A record of free product removal is presented in Table B-8, including removal from storm sewer manhole and the storm drainage canal.

The geology at MCAS is comprised of unconsolidated sedimentary deposits that consist of interbedded sands, silts, clays, calcareous clays, shell beds, and limestone. These sediments of Cretaceous and Tertiary age are layered in interfingering beds and lenses that thicken to the southeast to a combined thickness of approximately 1,500 feet. They were deposited in marine or near shore environments and overlie igneous and metamorphic basement rocks of pre-Cretaceous age (Cardinell, et al). The Tertiary surficial deposits in the area consist of Belgrade Formation that consists of clay, sandy clay, and silt beds and is part of the Castle Hayne confining unit. The Belgrade Formation tends to be semi-confining in nature because it is laterally discontinuous. The thickness of the unit ranges from approximately 0 to 25 feet and typically averages 9 feet where present. The River Bend Formation underlies these deposits and consists of sand, cemented shells, and limestone and makes up the Castle Hayne Aquifer. The upper portion of the formation consists of calcareous sands with some thin clay and silt beds. The lower portions of the formation consist of partially unconsolidated Cretaceous limestone and sandy limestone interbedded with clay and sand (Cardinell, et al).

6. Summarize initial abatement actions, assessment of activities, and corrective actions performed to date and list all reports previously submitted.

See Section G discussion.

C. Site Check Report – Not Applicable

D. UST Closure Report – Not Applicable

E. Free Product Investigation and Recovery Report

Discuss the status of free product at the site, as follows:

1. If free product is, or has been, present at the site, describe its current and historical status (product distribution, thickness, recovery activities). Refer to tables in Section K: Table B-7, Monitoring and Remediation Well Construction Information; and Table B-8A, Free Product Recovery Information; Table B-8B, Cumulative Volume of Free Product Recovered from Site; and Table B-9, Current and Historical Groundwater Elevations and Free Product Thickness. Also refer to map(s) showing extent of free product in Section J;

Free product was first identified in a storm drain between Building AS 4146 and Campbell and White Streets. Booms used to collect free product have been in place in the storm water manhole and surface water canal since January 2009. Free product has been routinely pumped using a Vacuum Truck from the boomed areas. On January 30, approximately 4000 gallons of water and fuel was vacuumed from the storm drain and canal. Of the 4000 gallons, approximately 300 gallons of fuel was put in storage tanks at the Environmental Management Division (EMD) Used Fuel Storage Area. From January 30 to February 25 another 157 gallons of fuel was recovered from the storm water manhole, and from February 25 to June 1 approximately 218 gallons of fuel was recovered from the

storm water manhole. Following repair of the pipeline the beginning of April, the amount of free product in the storm water manhole has reduced significantly.

2. Identify any on-site or off-site effluent discharges, treatment used, effluent quality, permitting actions taken, and location of such discharges and identify the disposition of recovered free product (refer to attached product disposal manifests);

The recovered fuel was placed into storage tanks located on Base at the EMD Used Fuel Storage Area. The fuel will be disposed off-site once the volume constitutes removal.

3. Document the performance, total cost, and cost per gallon to date of each method of free product recovery used at site. Justify why the technology is or was used; and

Class II containment booms and absorbent booms were placed in the surface water canal and absorbent matting and Vacuum Trucks were utilized to remove fuel from the storm drain. The booms were placed in the canal to accumulate the free product and prevent migration to Southwest Creek and New River.

4. Provide conclusions and recommendations concerning historical, current, and future recovery activities, including:

- ≡ Any proposal to change the current method of free product recovery to a better or more cost-effective technology;
- ≡ A justification for continued product recovery, if planned; and
- ≡ Any determination that free product has been eliminated from the site with a recommendation to reclassify the risk posed by the release, if applicable.

Future plans include replacing the affected section of storm water piping in an attempt to eliminate the migration pathway of fuel entering the storm water drain. This will be performed in conjunction with construction of a recovery well point near the storm drain to remove free product prior to getting to the storm drain.

F. Groundwater and Surface Water Investigation (if applicable)

1. If groundwater or bedrock was encountered in pits, trenches or shallow boring during site check, UST system closure, or initial abatement investigation, if monitoring or water supply wells were found to be contaminated, or if surface water is present nearby, then indicate actions taken to investigate suspected contamination from a release (e.g., installation of monitoring wells, groundwater or surface sampling and analysis).

Groundwater was encountered during the initial abatement activities at a depth of approximately 5.5 feet bgs. Significant fuel related impact was encountered during pipeline repairs and groundwater will be investigated during a Limited Site Assessment to be conducted within 120 days from the April 3, 2009 notification.

2. Document groundwater investigation (or, if applicable, refer to groundwater investigations under Section C, Site Check Report, or Section D, UST Closure Report), as follows:
 - ≡ Present groundwater and surface water sampling information (Refer to tables and appendices provided in Sections K and L.), including:
 - Location of water samples (e.g., of monitoring well, water supply well, stream sampling point);
 - Field measurements (e.g., pH, dissolved oxygen, specific conductivity, temperature)
 - Sample collection procedures (grab, bailer, etc.);
 - Time/date collected.
 - Sample identification; and
 - Method(s) of water sample analysis.

No groundwater samples were collected during the pipeline repair activities.

- ⇒ Document quality-control measure information (Refer to tables and appendices provided in Sections K and L), including:
 - Sample handling procedures including sample preservation techniques and sample transport procedures;
 - Decontamination procedures;
 - Time and date samples were submitted to lab; and
 - Collection of samples for quality control purposes (e.g., duplicates, field blanks, trip blanks).

No groundwater samples were collected during the pipeline repair activities.

- ⇒ Describe groundwater or surface water investigation results, including:
 - Presentation of analytical results (Refer to table(s) provided in Section K and to appendix with laboratory analytical results provided in Section L.) and discussion of the results in relation to the cleanup levels (groundwater quality or surface water quality standards); and
 - Discussion of the effect of quality control sample results on the interpretation of groundwater or surface water analytical results.

No groundwater samples were collected during the pipeline repair activities.

G. Initial Response and Abatement Action

1. Describe initial response actions performed within 24 hours of discovery of the release, including:

- ⇒ Submittal of 24-Hour Release Report and UST Leak Reporting Form (UST-61);
- ⇒ Action to prevent further release and to determine source of the release;
- ⇒ Identification and mitigation of hazards due to exposure to pollutants (e.g. Responsible party must identify and sample water supply wells at risk of impact by the release and provide supply of alternate water, if wells are impacted.); and
- ⇒ Identification and mitigation of hazards due to fire, explosion, and vapor hazards.

The 24-Hour Release and UST Leak Reporting Form (UST-61) was submitted to the Wilmington NCDENR Office. Initial discovery of the leak was January 30, 2009, but it was first suspected to be a surface spill to the storm drain. Following the Tracer Test in March, the pipeline leak was confirmed on April 3, 2009 and an amended Form UST-61 was submitted. It is included as Appendix G.

A Tracer test was conducted following the initial discovery of the free product in the storm drain near Building AS 4146. The results of the Tracer test are provided in Appendix A.

Hazards of fuel located in the surface water canals were clearly marked to prevent accidental fires.

2. Describe initial abatement actions performed, including:

- ⇒ Completion of investigation to confirm presence and determine source of the release;
- ⇒ Investigation and recovery of free product;
- ⇒ Continued mitigation and monitoring of fire, explosion, and vapor hazards;
- ⇒ Remediation of hazards posed by exposed contaminated soil;
- ⇒ Submittal of 20-Day Report summarizing the progress of the initial actions performed within the 20-day period following discovery of the release; and
- ⇒ Soil excavation activities (Document in Section H, Excavation of Contaminated soil.).

A Tracer test was conducted following the initial discovery of the free product in the storm drain near Building AS 4146. The results of the Tracer test are provided in Appendix A. The leak was identified near Probe 49 and excavation of this area confirmed the leak.

Repair activities were conducted from April 6 to April 10, 2009 by Military Environmental & Construction Corporation (MEC). Copies of MEC's daily logs and safety procedures are included in Appendix I.

A leak was identified near Probe 49 at a joint coupling in the fiberglass pipe. A 118-inch section of 6"-fiberglass Bondstrand 2000 piping was replaced. A pressure test of this section was completed to 90 psi or one and one half the normal operating pressure for a period of 8 hours. A copy of the pressure test results is included in Appendix B. A total of six confirmation soil samples were collected from the excavation area and the results are presented in Table B-3 and shown on Figure 3.

Approximately 1100 gallons of JP-5 was removed from the 6-inch diameter fiberglass pipeline prior to repair activities. The fuel was placed in the petroleum collection recycle ASTs located at Camp Lejeune. In addition, 1,033 gallons of petroleum contaminated water was collected from the excavation along with 217 gallons of fuel. This fuel and water was disposed at Camp Lejeune at the DMD Used Fuel Recovery Area.

Two vacuum tracks were used to control the flow of JP-5 during the repair of the pipeline. Air monitoring of the excavated trench was conducted and the report is included as Appendix I.3. The excavation was backfilled to eliminate the fire/safety hazards.

Contaminated soil was excavated from around the leaking pipeline and stockpiled on plastic. Stockpiled soil was characterized and sent for off-site disposal as a non-hazardous waste. A total of 49.87 tons of contaminated soil was taken to ES&J Enterprises, Inc. facility located in Autryville, North Carolina. Additionally, 1,580 lbs of petroleum contaminated wood was also disposed at ES&J Enterprises, Inc. The wood was used as shoring of the excavation walls.

Detailed soil excavation information is provided in Section H.

H. Excavation of Contaminated Soil

1. Describe source and estimated extent of soil contamination determined in initial investigations (e.g., site check, UST system closure), referencing maps and cross-sections in Section J and tables presenting soil sampling information and results in Section K (If there are multiple sources of release, then describe the extent of contamination from each source.), including:
 - ≡ Sampling location and depths; locations of tanks, piping dispensers, sumps, areas of staining (indicate if above or below tank); utility lines; potential receptors; buildings; relationship of area(s) of contaminated soil to groundwater and bedrock; and
 - ≡ If part or all of UST system was removed, indicate dimensions of resulting pits and trenches.

The source of the soil contamination was a leak in the JP-5 fuel line near Probe 49 as identified during the March 2009 Tracer Test of the fuel line. Appendix H provides the surveyor's drawing of the excavation area as well as field sketches of the site. The six soil sampling locations are shown on Figure 3.

A sanitary sewer pipe was identified crossing the excavation trench and another which ran parallel to the JP-5 pipeline. Shoring was required due to the close proximity of the excavation trench to an emergency generator stored on a concrete slab and the close vicinity to Building AS-4146.

A 118-foot section of 6"-fiberglass pipeline was removed and replaced. The excavation area was approximately 257 square feet.

2. Describe excavation process, referencing maps and cross-sections in Section J, tables presenting soil sampling information and results in Section K and disposal manifests and geological logs in Section J, as follows:
 - ≡ Describe type of equipment used (e.g., back hoe, track hoe, dump truck);
 - ≡ Describe field screening, if used to determine limits of excavation, including:
 - Physical characteristics of the soil samples, as observed during collection;
 - Field instrumentation used to screen soils;
 - Field instrument calibration procedures;
 - Screening results (Refer to table provided in Section K.);
 - ≡ Indicate the final dimensions of the excavation(s);

- ⇒ Indicate the volume (in cubic yards) and weight (in tons) of soil excavated from each excavation (show calculations);
- ⇒ Describe relationship of final excavation pit to former UST system, to groundwater, to bedrock, and to structures; and
- ⇒ Indicate if the excavation operation ceased on encountering clean soil, groundwater, or bedrock OR if excavation ceased 5 feet from tank(s), dispenser(s), and/or piping and at a depth of 17 feet below land surface.

A Bobcat Excavator and John Deere Loader were used for the excavation of the JP-5 pipeline near Probe 49. The Equipment Inspection Forms are provided in Appendix I.4. In addition, hand excavation was required due to the close proximity of the sanitary sewer lines to the JP-5 pipeline.

The excavation was completed to a depth of approximately 5.5 feet bgs. The excavation area was approximately 257 square feet.

Based on the disposal manifests included in Appendix C, 49.87 tons or 39.90 CY of soil were removed and disposed off-site from the excavation area.

$$49.87 \text{ tons} \times (2000 \text{ lb/ton}) \times (1 \text{ CY}/2500 \text{ lbs}) = 39.90 \text{ CY}$$

The final excavation pit was located approximately 1 foot from the concrete slab with the emergency generator and approximately 10 feet from Building AS-4146. Groundwater was encountered at approximately 5.5 feet bgs.

The excavation operation ceased because of the presence of numerous utilities and above ground structures. The presence of fuel impacted soils was determined to be more than localized and would require a more extensive delineation. A total of six soil samples were collected from the sides, bottom, and below the leak area within the excavation.

3. Describe post-excavation confirmation soil sampling, referencing maps and cross-sections in Section J, tables presenting soil sampling information and results in Section K, and geological logs in Section L as follows:
 - ⇒ Describe sample location and depth, and methods of collection and analysis for each excavation;
 - ⇒ Note if multiple excavations were performed sequentially in an area of contaminated soil; i.e., if confirmatory sampling following primary excavation indicated that contaminated soil remained, so that further excavation was performed and a second set of confirmatory samples was collected and analyzed; and
 - ⇒ If contaminated soil was allowed to remain after final excavation, indicate precisely the location and depth of the residual contamination and explain why it was not removed, i.e., why it was not economically and/or technologically feasible to excavate it.

Sample locations are shown on Figure 3. The samples were collected at a depth of approximately 4 feet bgs along the middle of each sidewall. Multiple excavations were not completed for this site.

Based on the laboratory results shown on Table B-3, the following constituents had concentrations greater than the soil-to-groundwater MSCCs:

n-butylbenzene,
sec-butylbenzene,
isopropylbenzene,
naphthalene,
n-propyl benzene,
1,2,4-triethylbenzene,
1,3,5-trimethylbenzene,
xylenes, and
C9-C18 aliphatics.

In addition, the following constituents had concentrations greater than the residential MSCC:

**2-methylnaphthalene (107 mg/kg),
C9-C22 aromatics (677 mg/kg to 3,280 mg/kg), and
C9-C18 aliphatics (2,660 mg/kg to 7,510 mg/kg).**

The excavation floor and sidewalls both had exceedences of the aliphatics and aromatics.

4. Document Soil Investigation.

- ⇒ Provide soil sampling information for all samples collected following excavation and during previous investigations. Refer to table provided in Section K: Table B-3, Summary of Soil Sampling Results; to figures, in Section J; and to appendices, in Section L. Information should include:
 - Lithological descriptions from logs for borings, excavations;
 - Type of samples (from excavation, borehole, geoprobe boring, stockpiled soil, etc.);
 - Sample collection procedures (grab, split spoon, hand auger, etc.);
 - Location of soil samples;
 - Depth of soil samples (feet below land surface);
 - Time/date collected;
 - Sample identification;
 - Indication of phase of sampling: , site check; closure, IAA, etc.; and
 - Method(s) of soil sample analysis.
- ⇒ Document quality-control measures information (Refer to tables and appendices provided in Sections K and L.), including:
 - Sample handling procedures including sample preservation techniques and sample transport procedures;
 - Decontamination procedures;
 - Time and date samples were submitted to lab; and
 - Collection of samples for quality control purposes (e.g., duplicates, field blanks, trip blanks).
- ⇒ Describe soil investigation results, including:
- ⇒ Presentation of analytical results for soil samples (Refer to table provided in Section K and to appendix with laboratory analytical results provided in Section L.);
- ⇒ Discussion of the results in relation to the appropriate cleanup levels, identifying the samples that exceed the lower of:
 - (a) the residential MSCCs or
 - (b) the soil-to-groundwater MSCCs.
- ⇒ Discussion of effect of quality control sample results on the interpretation of soil analytical results.

Table B-3 summarizes all soil samples collected to date at the site. Soil borings were not completed at the site. The location of the soils samples are shown on Figure 3. Sample dates and times are included in the full analytical laboratory results included in Appendix D

A summary of the analytical results is shown on Table B-3. Figure 3 includes sample results that exceeded the residential MSCCs or the soil-to-groundwater MSCCs.

5. Describe disposal of contaminated soil, referencing tables presenting soil sampling information and results in Section K and disposal manifests in Section L as follows:

- ⇒ Indicate volume and weight of contaminated soil removed from each excavation at site;
- ⇒ Describe construction of any stockpile of contaminated soil, describe collection and analysis of stockpile samples;
- ⇒ Indicate if soil was treated onsite (Reference permit in Section L.);
- ⇒ Indicate if soil was transported offsite for disposal and, if so, by whom and to what destination; and
- ⇒ Confirm that excavation was back-filled with clean soil.

A total of 49.87 tons of excavated soil was disposed at ES&J Enterprises, Inc. facility located in Atrypville, North Carolina. The disposal manifests are included in Appendix C.

The soil was not treated on-site prior to disposal.

The excavation was backfilled with pea gravel to protect the pipeline from large rocks contained in the local fill, which was purchase from an independent vendor. Pea gravel was purchased from the Martins-Marietta Quarry located in Onslow County, North Carolina.

6. Present conclusions, as follows;

- ≡ Briefly summarize excavation process;
- ≡ Describe extent of final excavation(s) and collection of confirmatory samples;
- ≡ Indicate if excavation ceased on encountering groundwater or bedrock; and
- ≡ Indicate whether soil contaminant levels in exceedance of the lowest MSCCs remain in the excavation(s), further excavation being determined infeasible by the UST Section, or soil contaminant levels in final excavation confirmatory soil samples were equal to below the lowest MSCCs

A Tracer test was conducted following the initial discovery (January 30, 2009) of the free product in the storm drain near Building AS 4146. The leak was identified near Probe 49 of a Tracer Test on April 3, 2009 and excavation of this area confirmed the leak. Repair activities were conducted from April 6 to April 10, 2009 by Military Environmental & Construction Corporation (MEC). A 118-inch section of 6"-fiberglass Bondstrand 2000 piping was replaced. A total of six confirmation soil samples were collected from the excavation area. Results indicate soils remain with concentrations that exceed the residential MSCCs or the soil-to-groundwater MSCCs. Groundwater was encountered at the base of the excavation, and groundwater was not sampled during this pipeline repair activity.

I. Conclusions

1. If soil contaminant levels in exceedance of the lowest MSCCs remain in the excavation(s) (further excavation being determined infeasible by the UST Section), if groundwater or bedrock has been encountered in proximity to contamination, or if free product is present, it should be concluded that a Limited Site Assessment must be performed and a report submitted within 120 days of discovery of the release; but
2. If soil contaminant levels in final excavation confirmatory soil samples were equal to or below the lowest MSCCs and if groundwater, bedrock, and free product were not encountered in the excavation(s), then no further action should be requested.

A Limited Site Assessment is recommended to be performed at the site because groundwater was encountered in the excavation at a depth of approximately 5.5 feet bgs. In addition, all of the soil samples indicate that soils remain with concentrations that exceed the residential MSCCs or the soil-to-groundwater MSCCs.

J. Figures

Provide the following:

1. A topographic map illustrating the area within 1500-foot radius of the source of the release, showing:
 - ≡ Topographic contours;
 - ≡ Site location;
 - ≡ Buildings;
 - ≡ Adjacent streets, roads, highways (identified by street names and numbers);
 - ≡ Surface water bodies;
 - ≡ Groundwater flow direction (if determined); and
 - ≡ North arrow and scale.

Figure 1 is provided as a topographic map and shows the site location as well as buildings, adjacent streets and topographic contours.

2. A site map* and cross-sections illustrating the UST system(s)/excavation area(s), drawn to scale, showing:

- ≡ Buildings and property boundaries;
- ≡ Underground utilities, such as sewer lines and other conduits; basements; and vaults;
- ≡ Water supply wells, surface water bodies
- ≡ Location and orientation of current and former UST(s), pumps; product lines, sumps, etc.;
- ≡ Length, diameter and volume of current and former UST(s);
- ≡ Type of material(s) stored in UST(s) (currently and formerly); and
- ≡ Names or descriptions of properties adjacent to the site; and
- ≡ North arrow and scale.

A site map is provided as Figure 2 and shows the excavation area as well as buildings and underground utilities. In addition, two site sketches and a site survey are included in Appendix I.

3. Map(s)* and geological cross-sections, drawn to scale, depicting all soil analytical results obtained to date and final confirmatory sample results, to include:
 - ≡ Description of soil and bedrock lithology (as determined by investigation to date);
 - ≡ Location and orientation of UST(s), pumps, piping, sumps, etc.(current and former);
 - ≡ Soil sample identification (unique letter and/or numerical code), location, and depth;
 - ≡ Soil sample analytical results;
 - ≡ Final limits of each stage of excavation for each excavation on site**; and
 - ≡ Two geological cross-sections, drawn across the contaminated area and intersecting at right angles, showing the vertical distribution of the contaminants in the unsaturated zone. (Indicate vertical and horizontal scale, orientation of each section, location of water table, soil types and lithology, all borings and sample locations represented by the sections, and soil analytical results for each represented sample, and show sections as labeled lines on the map.)

Figure 3 shows all soil analytical results that exceeded the residential MSCCs or soil-to-groundwater MSCCs.

Geologic cross-sections have not been completed for this site yet due to the limited amount of information currently available.

4. Map(s)* and geological cross-sections, drawn to scale, depicting the groundwater and surface water analytical results,** to include:
 - ≡ Location and orientation of UST(s), pumps, piping, sumps, etc.(current and former);
 - ≡ Groundwater sample identification (unique letter and/or numerical code referencing monitoring or water supply well)and location;
 - ≡ Surface water sample identification (unique letter and/or numerical code) and location; and
 - ≡ Groundwater and surface water sample analytical results.

No groundwater or surface water samples have been collected for this incident at this time.

5. A free product map* showing thickness (in feet) and extent of free product** using contour lines; and

A free product map is not included as part of the Initial Abatement Action Report (IAAR).

6. A potential receptor map that clearly identifies water supply wells (municipal or public/private wells, etc.) and other potential receptors (surface water bodies, basements, utilities, etc.) which are at risk.

No potential water supply wells are located near the site since this is a military base. Potential surface water bodies are shown on Figure 1, including Southwest Creek and New River.

**Note: If possible, use a single base map to prepare site plans using a map scale of 1 inch = 40 feet (or a smaller scale for large sites, if necessary). Maps and figures should include conventional symbols, notations, labeling, legends, scales, and north arrows and should conform to generally accepted practices of map presentation such as those enumerated in the USGS Geological Survey pamphlet, "Topographic Maps."*

*** If applicable*

K. Tables

Provide the following:

1. Site History (Complete Tables B-1 and B-2 from *Guidelines*, Appendix B);

Tables B-1 and B-2 are provided.

3. Public and Private Water Supply Well and Other Receptor Information (Complete Table B-5 from *Guidelines*, Appendix B);

Table B-5 is not provided because there are no public or private water supply wells near the site.

4. Field Screening Results;

No field screening results are provided for this IAAR.

5. Summary of Soil Sampling Results (Complete Table B-3 from *Guidelines*, Appendix B);

Table B-3 is provided with the soil sampling results.

6. Summary of Groundwater and Surface Water Sampling Results* (Complete Table B-4 from *Guidelines*, Appendix B)*;

Table B-4 is not provided because no groundwater samples were collected during the pipeline repair activities.

7. Monitoring and Remediation Well Construction Information (Complete Table B-7 from *Guidelines*, Appendix B)*;

Table B-7 is not provided because no groundwater monitoring wells have been installed at the site.

8. Free Product Recovery Information (Complete Table B-8A from *Guidelines*, Appendix B)*;

Table B-8A is provided.

9. Cumulative Volume of Free Product Recovered from Site (Complete Table B-8B from *Guidelines*, Appendix B)*;

Table B-8B is provided.

10. Current and Historical Groundwater Elevations and Free Product Thickness (Complete Table B-9 from *Guidelines*, Appendix B)*.

Table B-9 is provided showing monitoring measurements from USTAS-4141-MW-15 located in the immediate vicinity of the leak. This well was installed in 2005 during incident #3218.

* If applicable

L. Appendices

Provide the following:*

Appendix A - Leak Confirmation Tightness Testing Results

Appendix B - Leak Repair Confirmation Testing

Appendix C - Soil Disposal Manifests

Appendix D - Laboratory Analytical Records and Chain-of-Custody Records

Appendix E - Photograph Log

Appendix F - Analytical and Fingerprint Analysis of Storm Drain Free Product

Appendix G - 24-Hour Release and UST Leak Reporting Form (UST-61)
Appendix H - Site Area Sketches
Appendix I - Safety Forms from MEC
Appendix I.1 - Supervisor Daily Form
Appendix I.2 - Activity Hazard Analysis
Appendix I.3 - Real Time Air Monitoring Log
Appendix I.4 - Equipment Inspection Form
Appendix I.5 - Safety Meetings
Appendix I.6 - Lockout/Tagout Activity Checklist
Appendix J - NORR Letter
Appendix K - MCBCL/MCASNR SPCC State Notification of Discharge Report

** If applicable*

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TABLES

Table B-1: Site History – UST/AST System and Other Release Information

Revision Date: June 15, 2009 Incident Number and Name: **32542; Building AS-4146, Probe 49**

UST ID Number	Current/Last Contents *	Previous Contents *	Capacity (in gallons)	Construction Details **	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST ***	Was release associated with the UST System?
Tank A	JP-5	NA	30,000	Fiberglass Double walled		Stainless Steel	1994	Operational	No
Tank B	JP-5	NA	30,000	Fiberglass Double walled		Stainless Steel	1994	Operational	No
Tank C	JP-5	NA	20,000	Fiberglass Single walled		Stainless Steel	1994	Operational	No
Tank D	JP-5	NA	20,000	Fiberglass Single walled		Stainless Steel	1994	Operational	No
A/B Product Recovery	JP-5	NA	2,500	Fiberglass Double walled		Stainless Steel	1994	Operational	No
C/D Product Recovery	JP-5	NA	1,000	Steel Single walled		Stainless Steel	1994	Operational	No

Add additional records as necessary

AST ID Number	Current/Last Contents *	Previous Contents *	Capacity (in gallons)	Construction Details **	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of AST ***	Was release associated with the AST System?
T1	JP-5	NA	200,000	Steel	35' Dia. 30' High	Fiberglass Transfer	1987	Operational	Yes
T2	JP-5	NA	200,000	Steel	35' Dia. 30' High	Fiberglass Transfer	1986	Operational	Yes
T3	JP-5	NA	200,000	Steel	35' Dia. 30' High	Fiberglass Transfer	1987	Operational	Yes
T4	JP-5	NA	200,000	Steel	35' Dia. 30' High	Fiberglass Transfer	1986	Operational	Yes

Add additional records as necessary

Appendix B
Reporting Tables

Incident Number	Material Released	Date of Release	Description of Release
23691	JP-5	2000	Transfer Line Leak
32101	JP-5	May 2002	Rapid Refueler Leak
32004	JP-5	October 2002	Rapid Refueler Leak
32086	JP-5	2003	Rapid Refueler Leak
32238	JP-5	2005	Transfer Line Leak Probe #52
87537	JP-5	2005	Campbell Street Fuel Farm Release
NA	JP-5	2006	Tracer Test Results for 5 Leaks
32466	JP-5	2007	Transfer Line Leak Probe #179
94045	JP-5	2008	Campbell Street Fuel Farm Release
32542	JP-5	2009	Transfer Line Leak Probe #49 (Current Release)

Add additional records as necessary

- * Gasoline (unleaded or leaded), diesel, used oil, waste oil, aviation fuel, etc., or pesticides, non-halogenated or halogenated solvents, etc.
- ** Fiberglass (single- or double-walled), steel (single- or double-walled), steel with FRP (single- or double-walled), steel with liner, other, unknown.
- *** Currently operational, not in use or temporarily closed (specify date), permanently closed in place (specify date), permanently closed by removal (specify date)

Table B-2: Site History - UST/AST Owner/Operator and Other Responsible Party Information

Revision Date: June 15, 2009 Incident Number and Name: **32542; Building AS-4146, Probe 49**

UST ID Number	T1 through T4 ASTs		Facility ID Number	V-002740
Name of Owner			Dates of Operation (mm/dd/yy to mm/dd/yy)	
U.S. Marine Corps			1986 to Present	
Street Address				
PSC Box 20004, Attn: EMD				
City	State	Zip	Telephone Number	
Camp Lejeune MCB	NC	28542	910-451-9660	
Name of Operator			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Same				
Street Address				
City	State	Zip	Telephone Number	
Incident Number				
Name of Other Responsible Party			Dates of Release(s) (mm/dd/yy to mm/dd/yy)	
Street Address				
City	State	Zip	Telephone Number	

Add additional records for all owners, operators and responsible parties as necessary

Table B-2: Site History - UST/AST Owner/Operator and Other Responsible Party Information

Revision Date: June 15, 2009 Incident Number and Name: **32542; Building AS-4146, Probe 49**

UST ID Number	Rapid Refuelers A/B and C/D - 6 USTs		Facility ID Number	V-002740
Name of Owner			Dates of Operation (mm/dd/yy to mm/dd/yy)	
U.S. Marine Corps			1994 to Present	
Street Address				
PSC Box 20004, Attn: EMD				
City	State	Zip	Telephone Number	
Camp Lejeune MCB	NC	28542	910-451-9660	
Name of Operator			Dates of Operation (mm/dd/yy to mm/dd/yy)	
Same				
Street Address				
City	State	Zip	Telephone Number	
Incident Number				
Name of Other Responsible Party			Dates of Release(s) (mm/dd/yy to mm/dd/yy)	
Street Address				
City	State	Zip	Telephone Number	

Add additional records for all owners, operators and responsible parties as necessary

Table B-3
Summary of Soil Sampling Results

Revision Date 4/27/09

Incident Number and Name: 32542; Building AS-4146, Probe 49

Facility ID# V-002740

Analytical Method (e.g., VOC by EPA 8260) →					VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260	SVOC 8270	VOC 8260
Contaminant of Concern →					n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	2-Methylnaphthalene	Naphthalene
Sample ID	Date Collected (mm/dd/yy)	Source Area	Sample Depth (ft bgs)	Incident Phase							
AS4146-001-S-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	18.3	11	1.45	5.81	7.2	45	22.6
AS4146-002-E-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	23.1	13.2	< 1.88	6.08	8.7	61.9	28.9
AS4146-003-N-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	9.72	5.62	< 1.89	< 1.89	3.8	8.38	11.9
AS4146-004-W-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	< 1.57	2.84	< 1.57	< 1.57	1.9	1.28	7.5
AS4146-005-Floor	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	13.6	10.6	2.36	6.58	5.19	107	14.5
AS4146-006-Under Leak	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	13.2	10.1	< 3.56	6.55	4.67	50.4	19.5
Soil to Groundwater MSCC (mg/kg)					4.3	3.3	4.6	1.7	NE	1.7	0.58
Residential MSCC (mg/kg)					626	626	1,560	1,564	NE	63	313
Industrial/Commercial MSCC (mg/kg)					16,350	16,350	40,000	40,880	NE	1,635	8,176

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
- List any contaminants detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.
- mg/kg = milligrams per kilogram

Table B-3
Summary of Soil Sampling Results

Revision Date 4/27/09

Incident Number and Name: 32542; Building AS-4146, Probe 49

Facility ID# V-002740

Analytical Method (e.g., VOC by EPA 8260) →					SVOC 8270	VOC 8260	VOC 8260	VOC 8260	VOC 8260
Contaminant of Concern →					Naphthalene	n-Propyl benzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Mixed Xylenes (m-p- + o-)
Sample ID	Date Collected (mm/dd/yy)	Source Area	Sample Depth (ft bgs)	Incident Phase					
AS4146-001-S-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	7.18	6.27	52.6	12.1	12.31
AS4146-002-E-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	13.4	6.59	58.7	14.6	11.55
AS4146-003-N-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	2.64	2.14	18.1	4.76	< 5.67
AS4146-004-W-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	< 0.415	< 1.57	8.82	2.44	< 4.71
AS4146-005-Floor	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	41	7.85	38.3	9.3	13.54
AS4146-006-Under Leak	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	19.2	8.23	34.8	8.48	3.99
Soil to Groundwater MSCC (mg/kg)					0.58	1.7	7.5	7.3	5
Residential MSCC (mg/kg)					313	626	782	782	3,129
Industrial/Commercial MSCC (mg/kg)					<u>8,176</u>	<u>16,350</u>	<u>20,440</u>	<u>20,440</u>	<u>81,760</u>

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
- List any contaminants detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.
- mg/kg = milligrams per kilogram

Table B-3
Summary of Soil Sampling Results

Revision Date 4/27/09

Incident Number and Name: 32542; Building AS-4146, Probe 49

Facility ID# V-002740

Analytical Method (e.g., VOC by EPA 8260) →					MADEP VPH	MADEP VPH + EPH	MADEP VPH + EPH	MADEP EPH
Contaminant of Concern →					C5-C8 Aliphatics	C9-C18 Aliphatics	C9-C22 Aromatics	C9-C18 Aliphatics
Sample ID	Date Collected (mm/dd/yy)	Source Area	Sample Depth (ft bgs)	Incident Phase				
AS4146-001-S-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	71.2	7,980	3,280	7,510
AS4146-002-E-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	63.4	5,010	2,096	5,040
AS4146-003-N-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	27	2,983	1,277	2,660
AS4146-004-W-Sidewall	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	11.6	654	677	717
AS4146-005-Floor	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	18.7	5,090	1,277	5,290
AS4146-006-Under Leak	4/8/2009	Probe 49 Excavation	5.5	Initial Abatement	21.7	7,336	1,871	7,410
Soil to Groundwater MSCC (mg/kg)					72	3,300	34	72
Residential MSCC (mg/kg)					939	9,386	469	939
Industrial/Commercial MSCC (mg/kg)					<u>24,528</u>	<u>245,280</u>	<u>12,264</u>	<u>24,528</u>

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
- List any contaminants detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.
- mg/kg = milligrams per kilogram

Table B-8A: Free Product Recovery Information

Revision Date: **June 15, 2009** Incident Number and Name: **32542; Building AS-4146, Probe 49**

Facility ID#: **V-002740**

Date (m/dd/yy)	Well ID #	Product Type (gas, diesel, etc.)	Free Product Recovery Method*	Product Thickness before Recovery (inches)	Product Thickness after Recovery (inches)	Amount of Vaporized Product	Amount of Liquid (Water and Product)	Amount of Liquid Product	Total Amount of Product Recovered (gallons)
1/30/09	Storm Drain & Canal	JP-5	Vacuum Truck	NA	NA	NA	4000	300	300
1/31/09 through 6/01/09	Storm Drain	JP-5	Vacuum Truck	NA	NA	NA	375	375	375

(Present all calculations in an attachment)

* Bailing, Skimming, Aggressive Fluid Vapor Recovery, Mobile Multiphase Extraction, etc,

Table B-8B: Cumulative Volume of Free Product Recovered from Site

Date of Recovery Event (m/dd/yy)	Total Volume Recovered from Site During Current Recovery Event (gallons)	Cumulative Total of Volume Recovered to Date from All Recovery Events (gallons)
1/30/09 through 6/01/09	NA	675

Table B-9: Current and Historical Groundwater Elevations and Free Product Thickness

Revision Date: June 15, 2009 Incident Number and Name: 32542; Building AS-4146, Probe 49

Facility ID#: V-002740

Well ID #	Date	Screened Interval (top of screen, bottom of screen)	Depth to Water* Uncorrected (feet)	Free Product Thickness (feet)	Depth to Water* Corrected for Free Product Thickness (feet)	Top of Casing Elevation (MSL)	Groundwater Surface Elevation (MSL)
USTAS-4151-MW-15	2/3/09	-	2.84	0.02		18.62	15.78
USTAS-4151-MW-15	2/9/09	-	3.04	0.05		18.62	15.58
USTAS-4151-MW-15	2/16/09	-	3.11	0.01		18.62	15.51
USTAS-4151-MW-15	2/25/09	-	3.02	0.01		18.62	15.60
USTAS-4151-MW-15	3/4/09	-	2.34	0.04		18.62	16.28
USTAS-4151-MW-15	3/9/09	-	2.67	0.02		18.62	15.95
USTAS-4151-MW-15	3/17/09	-	2.82	0.00		18.62	15.80
USTAS-4151-MW-15	3/26/09	-	2.89	0.00		18.62	15.73
USTAS-4151-MW-15	4/1/09	-	3.05	0.02		18.62	15.57
USTAS-4151-MW-15	4/9/09	-	3.64	0.01		18.62	14.98
USTAS-4151-MW-15	4/20/09	-	3.92	0.06		18.62	14.70

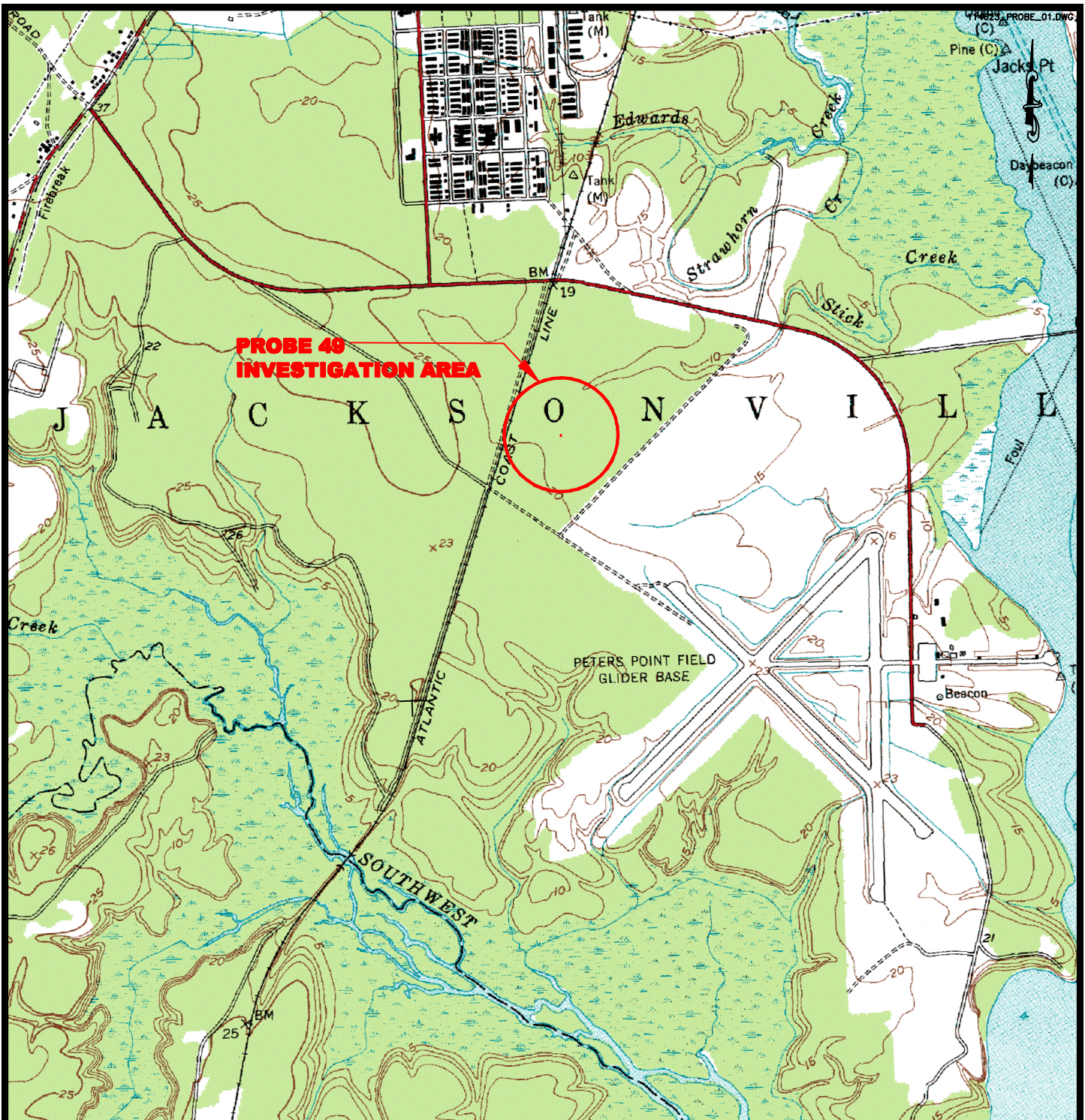
*Depth to Water is measured from Top of Casing

Notes:

Well USTAS-4151-MW-15 is located in the immediate vicinity of the current leak and Building AS-4146. This well was not installed as part of this incident, but was installed in 2005 related to incident #3218.

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FIGURES



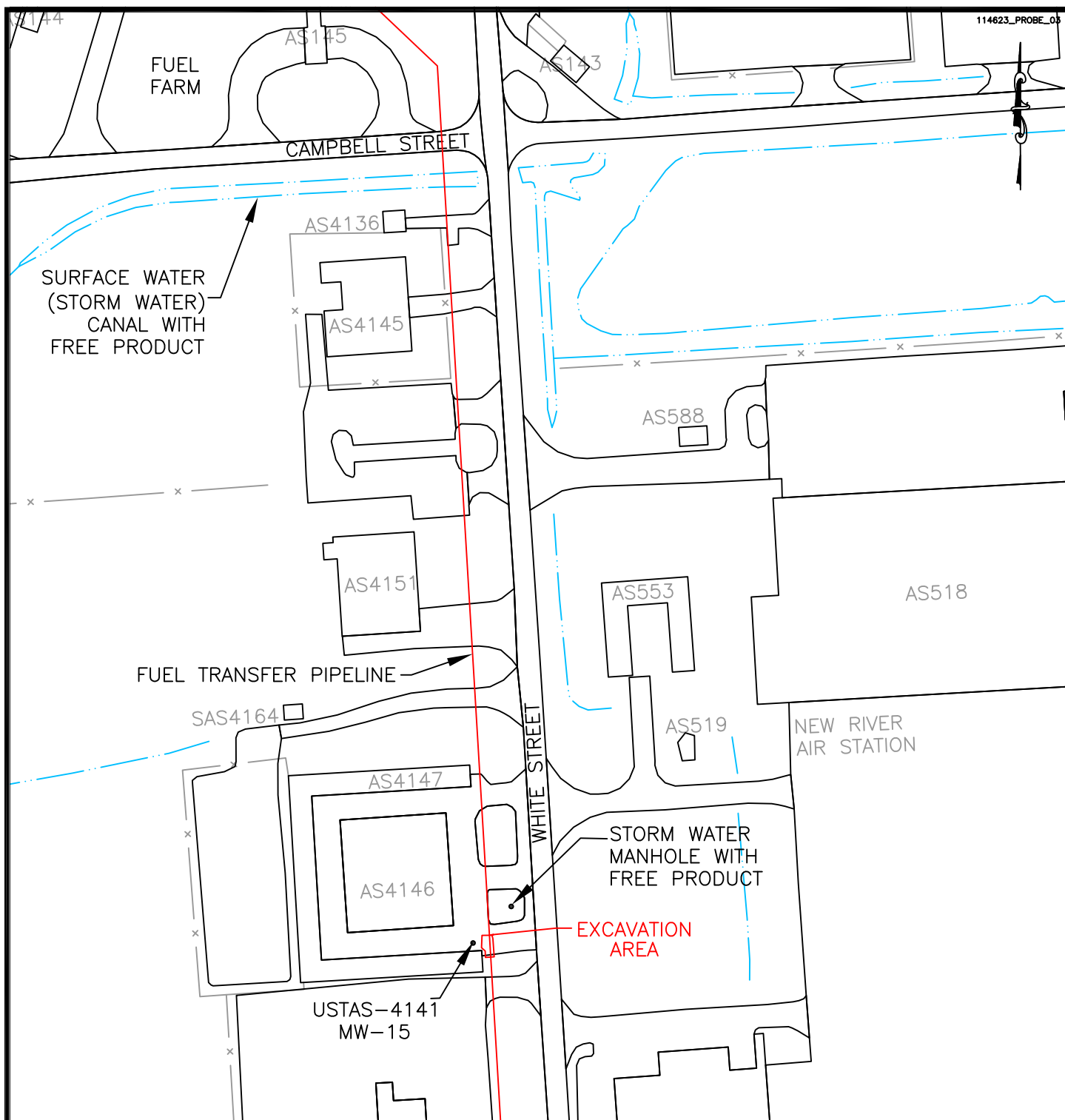
7.5 MIN. QUAD
JACKSONVILLE SOUTH, N.C.
1952
PHOTO INSPECTED 1988

2000 0 1000 2000
1 inch = 2000 ft.

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FIGURE 1
SITE LOCATION MAP
PROBE 49
PROBE 49 INVESTIGATION AREA

MARINE CORPS AIR STATION — NEW RIVER
ONSLow COUNTY, NORTH CAROLINA



SOURCE: Special Project NRV03-3 Aviation Fuel System Study Site Plan, September 2001
Marine Corps Air Station, New River, North Carolina

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FIGURE 2
SITE PLAN
PROBE 49
PROBE 49 INVESTIGATION AREA

MARINE CORPS AIR STATION - NEW RIVER
ONSLOW COUNTY, NORTH CAROLINA

Site ID	005-FLOOR
Date	4/8/2009
Depth	5.5
VOC (mg/kg)	
n-Butylbenzene	18.3
sec-Butylbenzene	10.6
Isopropylbenzene	6.58
2-Methylnaphthalene	107
Naphthalene	14.5
n-Propyl benzene	7.85
1,2,4-Trimethylbenzene	38.3
1,3,5-Trimethylbenzene	9.3
SVOC (mg/kg)	
Naphthalene	41
Aliphatics (mg/kg)	
Mixed Xylenes (m-,p- + o-)	13.54
C9-C18 Aliphatics	5090
C9-C22 Aromatics	1277
C9-C18 Aliphatics	5290

Site ID	004-W-Sidewall
Date	4/8/2009
Depth	5.5
VOC (mg/kg)	
Naphthalene	7.5
1,2,4-Trimethylbenzene	8.82
Aliphatics (mg/kg)	
C9-C22 Aromatics	677
C9-C18 Aliphatics	717

Site ID	001-S-Sidewall
Date	4/8/2009
Depth	5.5
VOC (mg/kg)	
n-Butylbenzene	18.3
sec-Butylbenzene	11
Isopropylbenzene	5.81
2-Methylnaphthalene	45
Naphthalene	22.6
n-Propyl benzene	6.27
1,2,4-Trimethylbenzene	52.6
1,3,5-Trimethylbenzene	12.1
SVOC (mg/kg)	
Naphthalene	7.18
Aliphatics (mg/kg)	
Mixed Xylenes (m-,p- + o-)	12.31
C9-C18 Aliphatics	7980
C9-C22 Aromatics	3280
C9-C18 Aliphatics	7510

Site ID	006-UNDER LEAK
Date	4/8/2009
Depth	5.5
VOC (mg/kg)	
n-Butylbenzene	13.2
sec-Butylbenzene	10.1
Isopropylbenzene	6.55
2-Methylnaphthalene	50.4
Naphthalene	19.5
n-Propyl benzene	8.23
1,2,4-Trimethylbenzene	34.8
1,3,5-Trimethylbenzene	8.48
SVOC (mg/kg)	
Naphthalene	19.2
Aliphatics (mg/kg)	
C9-C18 Aliphatics	7336
C9-C22 Aromatics	1871
C9-C18 Aliphatics	7410

Site ID	003-N-Sidewall
Date	4/8/2009
Depth	5.5
VOC (mg/kg)	
n-Butylbenzene	9.72
sec-Butylbenzene	5.62
2-Methylnaphthalene	8.38
Naphthalene	11.9
n-Propyl benzene	2.14
1,2,4-Trimethylbenzene	18.1
SVOC (mg/kg)	
Naphthalene	2.64
Aliphatics (mg/kg)	
C9-C22 Aromatics	1277
C9-C18 Aliphatics	2660

Site ID	002-E-Sidewall
Date	4/8/2009
Depth	5.5
VOC (mg/kg)	
n-Butylbenzene	23.1
sec-Butylbenzene	13.2
Isopropylbenzene	6.08
2-Methylnaphthalene	61.9
Naphthalene	28.9
n-Propyl benzene	6.59
1,2,4-Trimethylbenzene	58.7
1,3,5-Trimethylbenzene	14.6
SVOC (mg/kg)	
Naphthalene	13.4
Aliphatics (mg/kg)	
Mixed Xylenes (m-,p- + o-)	11.55
C9-C18 Aliphatics	5010
C9-C22 Aromatics	2096
C9-C18 Aliphatics	5040

Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
List any contaminants detected above the method detection limit
MSCC = maximum soil contamination concentration
ft. BGS = feet below ground surface
Results must be reported in mg/kg.
mg/kg = milligrams per kilogram

SCALE: 1"=10'
S.O. NO.: 114623
DSN/DWN:

DATE: MAY 2009
FILE: 114623_PROBE_04
CHK:

Baker

MICHAEL BAKER Jr., INC.
MOON TOWNSHIP, PENNSYLVANIA

FIGURE 3
SAMPLE LOCATION AND EXCEEDANCE MAP
PROBE 49 INVESTIGATION AREA
MARINE CORPS AIR STATION – NEW RIVER
ONSLOW COUNTY, NORTH CAROLINA

Leak Confirmation Tightness Testing Results



3755 N. Business Center Drive
Tucson, Arizona 85705
Toll Free (800) 989-9929
Tel: (520) 888-9400
Fax: (520) 293-1306

Tracer Tight® Leak Test

2009 Annual Testing

(5,440 feet) of Pipeline
New River MCAS
Jacksonville, NC

Praxair Job No. 23091M-AN09

Prepared for:

Varec, Inc.
5834 Peachtree Corners East
Norcross, GA 30092

Tel: (404) 394-1356
Fax: (770) 662-8939

Attention: Doug Ptak

Base Contact:

New River MCAS
I&E Department, EMD/EQB
Post Lane, Bldg 12, RM 233
Camp LeJeune, NC 28542

Tel: (910) 451-9660

Attention: Bruce Markwick

Submitted by:

Praxair Services, Inc.
Anthony Ptak - Supervisor

A handwritten signature in black ink, appearing to read "Anthony Ptak", written over a horizontal line.

E-Mail: Anthony_Ptak@Praxair.com

Website: <http://www.praxair.com/services>

Site Location: **New River MCAS**

Praxair Job No.: **23091M-AN09**

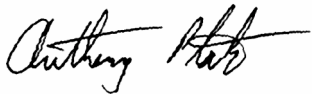
Inoculation Information:

	Inoculation:	Sampling:
Start Date:	March 11, 2009	March 4, 2009
Completion Date:	March 12, 2009	March 27, 2009
	Job Completion Date:	April 2, 2009

Note: Background Samples were collected before the Inoculation Event.

Annual Testing Results:

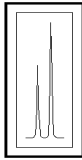
Facility:	System:	Type:	Volume:	Product:	Tracer:	Result:	
Pipe	Pipe	PIPELINE	5,440 ft	JP-5 Fuel	A	Failed	
Facility: (Pipe) / System: (Pipe) Failed on the Significant Value of: [3.437631] for Tracer [A] at the following Probes: ...							
	Test Round:	Probe:	A (µg/L)	TVHC (mg/L)			
	Background Tightness	No Significant Data for This Test ... 49	3.438	0.281			



Anthony Ptak - Supervisor

Date: 04/02/2009

Praxair Services, Inc. hereby certifies that the above listed systems(s) have been tested by means of Tracer Tight[®], which has been evaluated by a third party according to protocols issued and approved by the United States Environmental Protection Agency (EPA) as being able to detect a leak at a rate of 0.05 gallons per hour with a Probability of Detection (PD) of 0.97 and a Probability of False Alarm (PFA) of 0.029. If you have any questions or concerns, please call Praxair Services, Inc. at 800-989-9929 ext. 234.



Job No. 23091M-AN09 **Date:** 04-02-2009
New River MCAS ANNUAL

Significant Data Report			
Address: box 2102		USA	
City: Jacksonville	State: NC	Zip:	28545

System Number / Name:	Probe(s):	Collector:	Compound:	Concentration:	(units):
-----------------------	-----------	------------	-----------	----------------	----------

Source: DataTrace 2.0

Fac: Pipe	MCASNR Hydrant Pipeline
------------------	--------------------------------

Pipe	Pipe	Tightness Test				
		49	Individual	A	3.438	ug/L

EXPLANATION

• 1

Sampling Probe Location

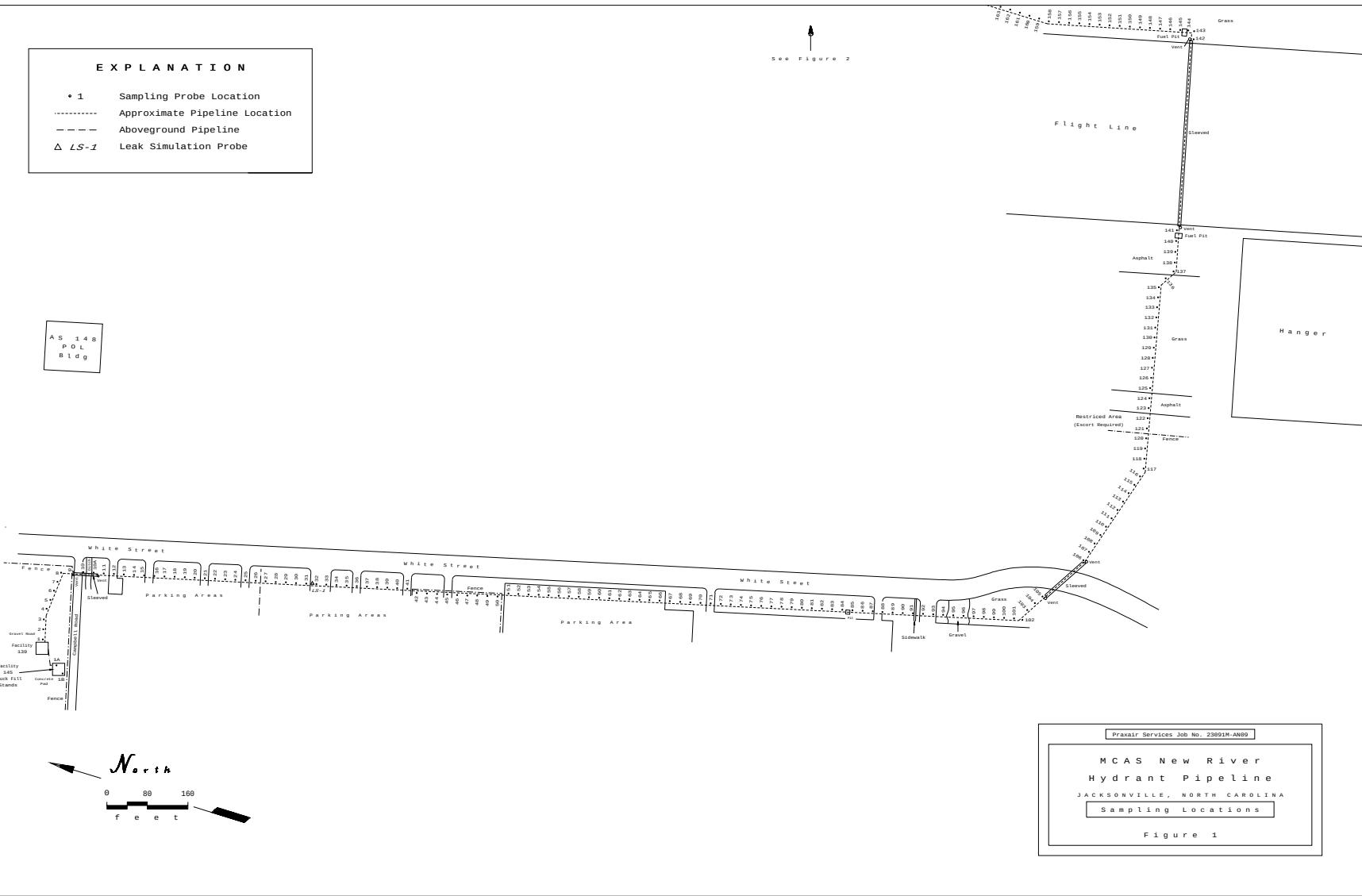
Approximate Pipeline Location

Aboveground Pipeline

△ LS-1

Leak Simulation Probe

AS 148
POL
Bldg



Praxair Services Job No. 23091A-AN09

MCAS New River

Hydrant Pipeline

JACKSONVILLE, NORTH CAROLINA

Sampling Locations

Figure 1

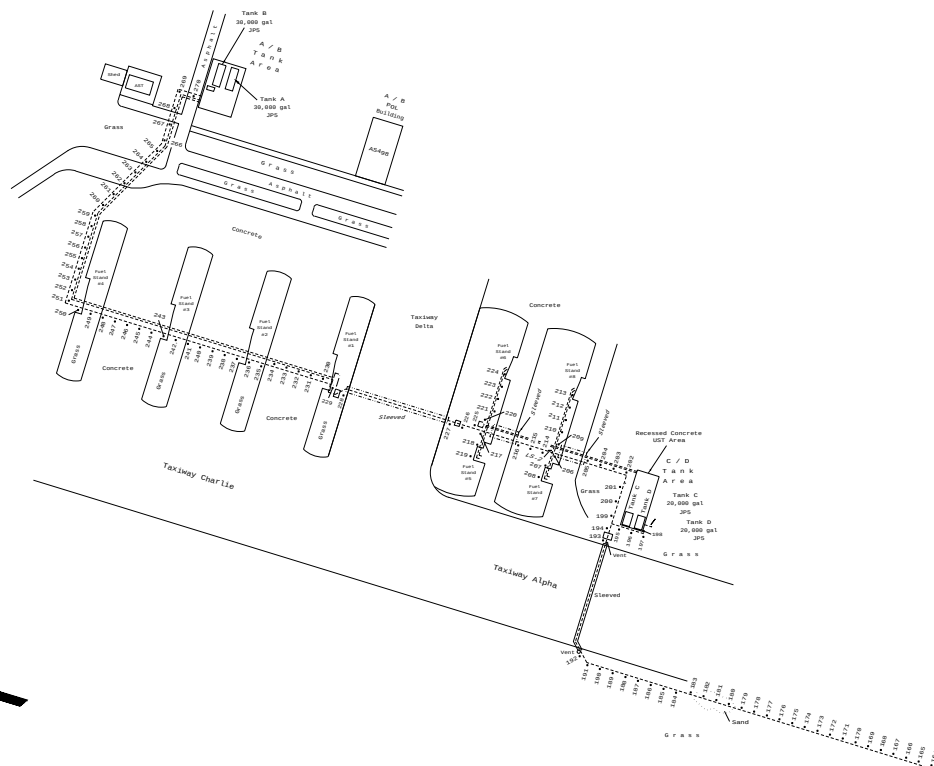
E X P L A N A T I O N

- 164 Sampling Probe Location
- Approximate Pipeline Location
- — — Aboveground Pipeline
- △ LS-2 Leak Simulation Probe

Praxair Services Job No. 23091M-AM09

MCAS New River
Hydrant Pipeline
JACKSONVILLE, NORTH CAROLINA
Sampling Locations

Figure 2



SEE FIGURE 1



Praxair Services, Inc.
3755 N. Business Center Dr.
Tucson, AZ 85705-2944
Tel: (520) 888-9400
Fax: (520) 293-1306

I confirm that inoculated product was circulated throughout all piping

sections scheduled for testing at NEW RIVER MCAS between
(Base Name)

MARCH 12, 2009 and MARCH 26, 2009.
(Date) (Date)

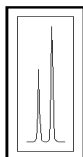
Thor O Giles
Printed name of base personnel

[Signature]
Signature of base personnel

Comments:

23091M-AN09 / 10147180

[illegible]



Job No. 23091M-AN09 Date: 04-02-2009
New River MCAS ANNUAL

Complete Data Report

Address: box 2102 USA
City: Jacksonville State: NC Zip: 28545

System Number / Name: Probe(s): Collector: Compound: Concentration: (units):

Source: DataTrace 2.0

Fac: Pipe

MCASNR Hydrant Pipeline

Pipe	Pipe	Background				
	1	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	2	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	3	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	4	Individual	A	0.000	ug/L	
			TVHC	0.148	mg/L	
	5	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	6	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	7	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	8	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	9	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	10	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	11	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	12	Individual	A	0.000	ug/L	
			TVHC	0.140	mg/L	
	13	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	14	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	15	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	16	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	17	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	18	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	19	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	20	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
	21	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	22	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	23	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	24	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	25	Individual	A	0.000	ug/L	
			TVHC	1.097	mg/L	
	26	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	27	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	28	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	29	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	30	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	31	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	32	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	33	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	34	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	35	Individual	A	0.000	ug/L	
			TVHC	0.053	mg/L	
	36	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	37	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	38	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	39	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	40	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	41	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	42	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
	43	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	44	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	45	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	46	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	47	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	48	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	49	Individual	A	0.000	ug/L	
			TVHC	0.570	mg/L	
	50	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	51	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	52	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	53	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	54	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	55	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	56	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	57	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	58	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	59	Individual	A	0.000	ug/L	
			TVHC	5.157	mg/L	
	60	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	61	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	62	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	63	Individual	A	0.000	ug/L	
			TVHC	15.368	mg/L	
	64	Individual	A	0.000	ug/L	
			TVHC	2.377	mg/L	

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
	65	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	66	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	67	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	68	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	69	Individual	A	0.000	ug/L	
			TVHC	0.098	mg/L	
	70	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	71	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	72	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	73	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	74	Individual	A	0.000	ug/L	
			TVHC	0.428	mg/L	
	75	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	76	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	77	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	78	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	79	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	80	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	81	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	82	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	83	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	84	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	85	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	
	86	Individual	A	0.000	ug/L	
			TVHC	0.000	mg/L	

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		87	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		88	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		89	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		90	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		91	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		92	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		93	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		94	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		95	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		96	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		97	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		98	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		99	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		100	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		101	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		102	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		103	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		104	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		105	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		106	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		107	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		108	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		109	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		110	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		111	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		112	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		113	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		114	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		115	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		116	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		117	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		118	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		119	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		120	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		121	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		122	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		123	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		124	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		125	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		126	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		127	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		128	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		129	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		130	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		131	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		132	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		133	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		134	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		135	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		136	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		137	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		138	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		139	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		140	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		141	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		142	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		143	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		144	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		145	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		146	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		147	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		148	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		149	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		150	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		151	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		152	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		153	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		154	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		155	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		156	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		157	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		158	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		159	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		160	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		161	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		162	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		163	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		164	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		165	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		166	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		167	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		168	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		169	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		170	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		171	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		172	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		173	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		174	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration: (units):	
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		175	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		176	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		177	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		178	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		179	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		180	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		181	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		182	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		183	Individual	A	0.000	ug/L
				TVHC	0.377	mg/L
		184	Individual	A	0.000	ug/L
				TVHC	1.116	mg/L
		185	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		186	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		187	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		188	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		189	Individual	A	0.000	ug/L
				TVHC	27.307	mg/L
		190	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		191	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		192	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		193	Individual	A	0.000	ug/L
				TVHC	12.751	mg/L
		194	Individual	A	0.000	ug/L
				TVHC	30.830	mg/L
		195	Individual	A	0.000	ug/L
				TVHC	22.996	mg/L
		196	Individual	A	0.000	ug/L
				TVHC	50.143	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		197	Individual	A	0.000	ug/L
				TVHC	28.223	mg/L
		198	Individual	A	0.000	ug/L
				TVHC	273.832	mg/L
		199	Individual	A	0.000	ug/L
				TVHC	5.648	mg/L
		200	Individual	A	0.000	ug/L
				TVHC	246.887	mg/L
		201	Individual	A	0.000	ug/L
				TVHC	291.542	mg/L
		202	Individual	A	0.000	ug/L
				TVHC	39.078	mg/L
		203	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		204	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		205	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		206	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		207	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		208	Individual	A	0.000	ug/L
				TVHC	0.105	mg/L
		209	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		210	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		211	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		212	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		213	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		214	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		215	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		216	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		217	Individual	A	0.000	ug/L
				TVHC	1.015	mg/L
		218	Individual	A	0.000	ug/L
				TVHC	0.097	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		219	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		220	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		221	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		222	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		223	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		224	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		225	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		226	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		227	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		228	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		229	Individual	A	0.000	ug/L
				TVHC	1.244	mg/L
		230	Individual	A	0.000	ug/L
				TVHC	15.029	mg/L
		231	Individual	A	0.000	ug/L
				TVHC	14.275	mg/L
		232	Individual	A	0.000	ug/L
				TVHC	21.301	mg/L
		233	Individual	A	0.000	ug/L
				TVHC	17.739	mg/L
		234	Individual	A	0.000	ug/L
				TVHC	11.096	mg/L
		235	Individual	A	0.000	ug/L
				TVHC	24.114	mg/L
		236	Individual	A	0.000	ug/L
				TVHC	23.657	mg/L
		237	Individual	A	0.000	ug/L
				TVHC	20.309	mg/L
		238	Individual	A	0.000	ug/L
				TVHC	12.127	mg/L
		239	Individual	A	0.000	ug/L
				TVHC	23.827	mg/L
		240	Individual	A	0.000	ug/L
				TVHC	10.447	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Background (Cont.)				
		241	Individual	A	0.000	ug/L
				TVHC	11.566	mg/L
		242	Individual	A	0.000	ug/L
				TVHC	23.132	mg/L
		243	Individual	A	0.000	ug/L
				TVHC	22.536	mg/L
		244	Individual	A	0.000	ug/L
				TVHC	12.691	mg/L
		245	Individual	A	0.000	ug/L
				TVHC	13.357	mg/L
		246	Individual	A	0.000	ug/L
				TVHC	20.902	mg/L
		247	Individual	A	0.000	ug/L
				TVHC	10.262	mg/L
		248	Individual	A	0.000	ug/L
				TVHC	13.787	mg/L
		249	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		250	Individual	A	0.000	ug/L
				TVHC	7.155	mg/L
		251	Individual	A	0.000	ug/L
				TVHC	0.071	mg/L
		252	Individual	A	0.000	ug/L
				TVHC	8.295	mg/L
		253	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		254	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		255	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		256	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		257	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		258	Individual	A	0.000	ug/L
				TVHC	1.491	mg/L
		259	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		260	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		261	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		262	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

<i>System Number / Name:</i>	<i>Probe(s):</i>	<i>Collector:</i>	<i>Compound:</i>	<i>Concentration:</i>	<i>(units):</i>
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Source: DataTrace 2.0

Fac: Pipe (Cont.)	MCASNR Hydrant Pipeline
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Pipe	Pipe	Background (Cont.)			
	263	Individual	A	0.000	ug/L
			TVHC	0.000	mg/L
	264	Individual	A	0.000	ug/L
			TVHC	0.000	mg/L
	265	Individual	A	0.000	ug/L
			TVHC	0.000	mg/L
	266	Individual	A	0.000	ug/L
			TVHC	0.000	mg/L
	267	Individual	A	0.000	ug/L
			TVHC	0.000	mg/L
	268	Individual	A	0.000	ug/L
			TVHC	0.060	mg/L
	269	Individual	A	0.000	ug/L
			TVHC	123.286	mg/L
	270	Individual	A	0.000	ug/L
			TVHC	0.195	mg/L
	1A	Individual	A	0.000	ug/L
			TVHC	13.938	mg/L
	1B	Individual	A	0.000	ug/L
			TVHC	4.726	mg/L

Pipe	Pipe	Tightness Test			
	1	Individual	A	0.000	ug/L
			TVHC	0.160	mg/L
	2	Individual	A	0.000	ug/L
			TVHC	0.082	mg/L
	3	Individual	A	0.000	ug/L
			TVHC	0.052	mg/L
	4	Individual	A	0.000	ug/L
			TVHC	1.386	mg/L
	5	Individual	A	0.000	ug/L
			TVHC	0.119	mg/L
	6	Individual	A	0.000	ug/L
			TVHC	0.116	mg/L
	7	Individual	A	0.000	ug/L
			TVHC	0.000	mg/L
	8	Individual	A	0.000	ug/L
			TVHC	0.109	mg/L
	9	Individual	A	0.000	ug/L
			TVHC	0.176	mg/L
	10	Individual	A	0.000	ug/L
			TVHC	0.210	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		11	Individual	A	0.000	ug/L
				TVHC	0.455	mg/L
		12	Individual	A	0.000	ug/L
				TVHC	0.303	mg/L
		13	Individual	A	0.000	ug/L
				TVHC	0.110	mg/L
		14	Individual	A	0.000	ug/L
				TVHC	0.276	mg/L
		15	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		16	Individual	A	0.000	ug/L
				TVHC	0.099	mg/L
		17	Individual	A	0.000	ug/L
				TVHC	0.106	mg/L
		18	Individual	A	0.000	ug/L
				TVHC	0.254	mg/L
		19	Individual	A	0.000	ug/L
				TVHC	0.128	mg/L
		20	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		21	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		22	Individual	A	0.000	ug/L
				TVHC	0.289	mg/L
		23	Individual	A	0.000	ug/L
				TVHC	0.321	mg/L
		24	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		25	Individual	A	0.000	ug/L
				TVHC	2.229	mg/L
		26	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		27	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		28	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		29	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		30	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		31	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		32	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration: (units):	
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		33	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		34	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		35	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		36	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		37	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		38	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		39	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		40	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		41	Individual	A	0.000	ug/L
				TVHC	0.676	mg/L
		42	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		43	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		44	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		45	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		46	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		47	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		48	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		49	Individual	A	3.438	ug/L
				TVHC	0.281	mg/L
		50	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		51	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		52	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		53	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		54	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration: (units):	
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		55	Individual	A	0.000	ug/L
				TVHC	0.199	mg/L
		56	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		57	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		58	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		59	Individual	A	0.000	ug/L
				TVHC	4.859	mg/L
		60	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		61	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		62	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		63	Individual	A	0.000	ug/L
				TVHC	6.257	mg/L
		64	Individual	A	0.000	ug/L
				TVHC	13.759	mg/L
		65	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		66	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		67	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		68	Individual	A	0.000	ug/L
				TVHC	0.053	mg/L
		69	Individual	A	0.000	ug/L
				TVHC	0.428	mg/L
		70	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		71	Individual	A	0.000	ug/L
				TVHC	2.442	mg/L
		72	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		73	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		74	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		75	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		76	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration: (units):	
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		77	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		78	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		79	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		80	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		81	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		82	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		83	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		84	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		85	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		86	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		87	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		88	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		89	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		90	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		91	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		92	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		93	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		94	Individual	A	0.000	ug/L
				TVHC	1.788	mg/L
		95	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		96	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		97	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		98	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		99	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		100	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		101	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		102	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		103	Individual	A	0.000	ug/L
				TVHC	0.053	mg/L
		104	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		105	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		106	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		107	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		108	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		109	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		110	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		111	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		112	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		113	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		114	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		115	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		116	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		117	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		118	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		119	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		120	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		121	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		122	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		123	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		124	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		125	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		126	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		127	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		128	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		129	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		130	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		131	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		132	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		133	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		134	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		135	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		136	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		137	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		138	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		139	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		140	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		141	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		142	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		143	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		144	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		145	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		146	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		147	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		148	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		149	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		150	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		151	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		152	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		153	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		154	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		155	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		156	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		157	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		158	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		159	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		160	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		161	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		162	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		163	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		164	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		165	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		166	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		167	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		168	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		169	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		170	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		171	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		172	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		173	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		174	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		175	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		176	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		177	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		178	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		179	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		180	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		181	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		182	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		183	Individual	A	0.000	ug/L
				TVHC	7.498	mg/L
		184	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		185	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		186	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

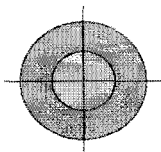
System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		187	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		188	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		189	Individual	A	0.000	ug/L
				TVHC	159.927	mg/L
		190	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		191	Individual	A	0.000	ug/L
				TVHC	0.078	mg/L
		192	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		193	Individual	A	0.000	ug/L
				TVHC	42.007	mg/L
		194	Individual	A	0.000	ug/L
				TVHC	256.041	mg/L
		195	Individual	A	0.000	ug/L
				TVHC	0.605	mg/L
		196	Individual	A	0.000	ug/L
				TVHC	338.832	mg/L
		197	Individual	A	0.000	ug/L
				TVHC	200.183	mg/L
		198	Individual	A	0.000	ug/L
				TVHC	312.196	mg/L
		199	Individual	A	0.000	ug/L
				TVHC	158.589	mg/L
		200	Individual	A	0.000	ug/L
				TVHC	137.836	mg/L
		201	Individual	A	0.000	ug/L
				TVHC	155.939	mg/L
		202	Individual	A	0.000	ug/L
				TVHC	2.434	mg/L
		203	Individual	A	0.000	ug/L
				TVHC	0.051	mg/L
		204	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		205	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		206	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		207	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		208	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		209	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		210	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		211	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		212	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		213	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		214	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		215	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		216	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		217	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		218	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		219	Individual	A	0.000	ug/L
				TVHC	0.347	mg/L
		220	Individual	A	0.000	ug/L
				TVHC	0.257	mg/L
		221	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		222	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		223	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		224	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		225	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		226	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		227	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		228	Individual	A	0.000	ug/L
				TVHC	15.290	mg/L
		229	Individual	A	0.000	ug/L
				TVHC	0.441	mg/L
		230	Individual	A	0.000	ug/L
				TVHC	23.729	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		231	Individual	A	0.000	ug/L
				TVHC	29.140	mg/L
		232	Individual	A	0.000	ug/L
				TVHC	31.874	mg/L
		233	Individual	A	0.000	ug/L
				TVHC	25.785	mg/L
		234	Individual	A	0.000	ug/L
				TVHC	33.181	mg/L
		235	Individual	A	0.000	ug/L
				TVHC	54.292	mg/L
		236	Individual	A	0.000	ug/L
				TVHC	48.306	mg/L
		237	Individual	A	0.000	ug/L
				TVHC	43.047	mg/L
		238	Individual	A	0.000	ug/L
				TVHC	32.936	mg/L
		239	Individual	A	0.000	ug/L
				TVHC	43.290	mg/L
		240	Individual	A	0.000	ug/L
				TVHC	29.137	mg/L
		241	Individual	A	0.000	ug/L
				TVHC	10.833	mg/L
		242	Individual	A	0.000	ug/L
				TVHC	50.628	mg/L
		243	Individual	A	0.000	ug/L
				TVHC	45.909	mg/L
		244	Individual	A	0.000	ug/L
				TVHC	23.192	mg/L
		245	Individual	A	0.000	ug/L
				TVHC	39.177	mg/L
		246	Individual	A	0.000	ug/L
				TVHC	51.104	mg/L
		247	Individual	A	0.000	ug/L
				TVHC	22.566	mg/L
		248	Individual	A	0.000	ug/L
				TVHC	2.293	mg/L
		249	Individual	A	0.000	ug/L
				TVHC	2.967	mg/L
		250	Individual	A	0.000	ug/L
				TVHC	27.063	mg/L
		251	Individual	A	0.000	ug/L
				TVHC	1.411	mg/L
		252	Individual	A	0.000	ug/L
				TVHC	25.220	mg/L

System Number / Name:		Probe(s):	Collector:	Compound:	Concentration:	(units):
Source: DataTrace 2.0						
Fac: Pipe (Cont.)		MCASNR Hydrant Pipeline				
Pipe	Pipe	Tightness Test (Cont.)				
		253	Individual	A	0.000	ug/L
				TVHC	0.200	mg/L
		254	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		255	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		256	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		257	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		258	Individual	A	0.000	ug/L
				TVHC	5.111	mg/L
		259	Individual	A	0.000	ug/L
				TVHC	0.101	mg/L
		260	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		261	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		262	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		263	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		264	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		265	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		266	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		267	Individual	A	0.000	ug/L
				TVHC	0.000	mg/L
		268	Individual	A	0.000	ug/L
				TVHC	0.527	mg/L
		269	Individual	A	0.000	ug/L
				TVHC	184.044	mg/L
		270	Individual	A	0.000	ug/L
				TVHC	9.205	mg/L
		10A	Individual	A	0.000	ug/L
				TVHC	0.746	mg/L
		1A	Individual	A	0.000	ug/L
				TVHC	227.517	mg/L
		1B	Individual	A	0.000	ug/L
				TVHC	14.222	mg/L

Leak Repair Confirmation Testing

**MEC Corp.**

Military Environmental & Construction Corp.

Site: AS-4146 Air Station

Date: 4/9/2009

Type of line	Fiberglass	# of joints within repair	2
Diameter of line	6"	Operating Pressure	60psi
Product in line	JP-5	Pressure at start of test	90psi
Length of line being tested	2900ft	Pressure after 8hrs	90psi
Length of line under repair	117.5"	Fuel pumped into fuel line	4499 gallons

	Time	Pressure (psi)	Action Taken, if necessary
Start test	930	90	Holding
	1000	90	Holding 60 degrees
	1030	90	Performed wipe test and visual leak test 61 degrees
	1100	90	Holding 64 degrees
	1130	90	Holding 65 degrees
	1200	90	Performed wipe test and visual leak test 65 degrees
	1240	120	Released pressure at valve to 89psi 66 degrees
	1310	89	Holding 68 degrees
	1340	89	Performed wipe test and visual leak test
	1410	89	Holding 66 degrees
	1440	89	Holding 64 degrees
	1510	89	Performed wipe test and visual leak test
	1600	89	Holding 62 degrees
	1645	89	Holding 59 degrees
Stop test	1730	89	Performed final wipe test and visual leak test

Weather Conditions: Partly cloudyCrew Performing Test: Chauncey, Jonathan, BrianWind Direction: NW-0-5mphQC Supervisor: Randy SmithMoisture of Location: NoneOver Site Representative: Charles Hilton

Soil Disposal Manifests

Marine Corps Base, Camp Lejeune

Non-Hazardous Waste Shipping Document

AS090001
Document #:

Site: <u>AS-4146</u>		Page 1 of 1	
Generator's Name & Mailing Address:		US EPA ID Number: <u>NC6170022580</u>	
COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004			
Generator's Telephone #:		(910) 451-1482	
Transporter's Name, Mailing Address & Telephone Number:		US EPA ID Number:	
ESTJ Enterprises, Inc. 1555 Holland Rd. Autryville, NC			
Destination's Name, Mailing Address & Telephone Number:		US EPA ID Number:	
ESTJ Enterprises, Inc. 1555 Holland Rd. Autryville, NC			
Waste Shipping Name and Description	Containers	Total Quantity	Units
	Number Type		
non-hazardous petroleum contaminated soil	001 DT	57860	103
		28.83	toys
Container/Tag Number:	Profile #:		
Lab: <u>Y'A-94097</u>			
Additional Information and Discrepancy Indication:			
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:			
Printed/Typed Name	Signature:	Date:	
<u>LARRY Lanier</u>	<u>Larry Lanier</u>	<u>4/7/09</u>	
Transporter's Name	Signature:	Date:	
<u>Johnny Tanner</u>	<u>Johnny Tanner</u>	<u>4/7/09</u>	
Accepting Facility	Signature:	Date:	
<u>ES & I</u>	<u>Beck</u>	<u>4/7/09</u>	

Return Original form to Generator

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2009
ECKY WILLIAMS - 27363
[Signature]
INVALID UNLESS SIGNED

28.93 Tons

11110136 04-07-09
Tare# 160
Gross . 85720 lb
Tare 27860 lb KP
Net 57860 lb



J.A. KING
& COMPANY, L.L.C.



MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2620 High Point Road • Greensboro, NC 27420-1225
Ph: (336) 292-0511 • Fax: (336) 294-9664

Marine Corps Base, Camp Lejeune

Non-Hazardous Waste Shipping Document

AS090001
Document #:

Site: <u>AS 4146</u>		Page 1 of 1		
Generator's Name & Mailing Address:		US EPA ID Number: <u>NC6170022580</u>		
COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004				
Generator's Telephone #:	<u>(910) 451-1482</u>			
Transporter's Name, Mailing Address & Telephone Number:		US EPA ID Number: _____		
<u>ES&J Enterprises, Inc.</u> <u>1555 Holland Rd. Autryville, NC</u>				
Destination's Name, Mailing Address & Telephone Number:		US EPA ID Number: _____		
<u>ES&J Enterprises, Inc.</u> <u>1555 Holland Rd. Autryville, NC</u>				
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>non-hazardous petroleum contaminated soil</u>	<u>006</u> <u>(22 Ton min)</u>	<u>DT</u>	<u>41,880</u> <u>20.94 TONS</u>	<u>lbs</u>
Container/Tag Number: <u>Y196058 N.C.</u>		Profile #: _____		
Lab: _____				
Additional Information and Discrepancy Indication: _____				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name		Signature:	Date:	
<u>LARRY Lanier</u>		<u>Larry Lanier</u>	<u>4/7/09</u>	
Transporter's Name		Signature:	Date:	
<u>J. R. Odom</u>		<u>J. R. Odom</u>	<u>4/7/09</u>	
Accepting Facility		Signature:	Date:	
<u>ES&J Enterprises INC.</u>		<u>Rick Odom</u>	<u>4-7-09</u>	

Return Original form to Generator

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2009
RIC EY WILLIAMS 27363
Ric Williams
INVALID UNLESS SIGNED

20-94 Tons.

12:54:14 04-07-09
Tare# 156
Gross 72140 lb
Tare 30260 lb KP
Net 41880 lb



J.A. KING
& COMPANY, L.L.C.



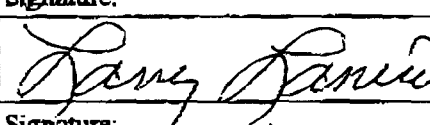
MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2820 High Point Road • Greensboro, NC 27420-1225
Ph: (336) 292-0511 • Fax: (336) 294-9684

Marine Corps Base, Camp Lejeune

Non-Hazardous Waste Shipping Document

AS090003
Document #:

Site: <u>AS 4146</u>		Page 1 of 1		
Generator's Name & Mailing Address:		US EPA ID Number: <u>NC6170022580</u>		
COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004				
Generator's Telephone #:		(910) 451-1482		
Transporter's Name, Mailing Address & Telephone Number:		US EPA ID Number:		
ES&J Enterprises, Inc. 1555 Holland Rd. Autryville, NC				
Destination's Name, Mailing Address & Telephone Number:		US EPA ID Number:		
ES&J Enterprises, Inc. 1555 Holland Rd. Autryville, NC				
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
Non-hazardous petroleum contaminated ~~oil~~ Wood	001	Wood	1,580	lbs.
Container/Tag Number:		Profile #:		
Lab:				
Additional Information and Discrepancy Indication:				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name		Signature:		Date:
LARRY Lanier				4/13/09
Transporter's Name		Signature:		Date:
Brian Griffin				4/13/09
Accepting Facility		Signature:		Date:
ES&J				4-13-09

Return Original form to Generator

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2009
RICKY WILLIAMS 27363

INVALID UNLESS SIGNED

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2009
RICKY WILLIAMS 27363
[Signature]
INVALID UNLESS SIGNED

12500

1580

10:51:14 04-13-09

Tare# 1

Gross 12500 lb

Tare 27000 lb

Net 9800 lb

11:05:07 04-13-09

Tare# 1

Gross 10920 lb

Tare 27000 lb

Net 8220 lb



J.A. KING

& COMPANY, L.L.C.



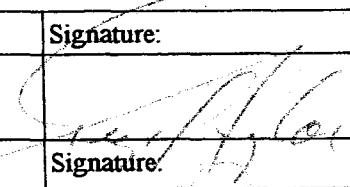
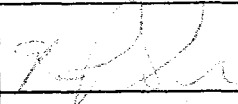
MEASUREMENT PROFESSIONALS SINCE 1939

P.O. Box 21225 • 2620 High Point Road • Greensboro, NC 27420-1225
Ph: (336) 292-0511 • Fax: (336) 294-9664

Marine Corps Base, Camp Lejeune

Non-Hazardous Waste Shipping Document

Document #: **07384**

Site: AS-4146		Page 1 of 1		
Generator's Name & Mailing Address:		US EPA ID Number: NC6170022580		
COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004				
Generator's Telephone #:				
(910) 451-1482				
Transporter's Name, Mailing Address & Telephone Number:		US EPA ID Number: _____		
MRC Corp 1565 Lejeune Blvd., Jacksonville, NC 28510 910-451-8478				
Destination's Name, Mailing Address & Telephone Number:		US EPA ID Number: _____		
Same as Generator				
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
non-hazardous petroleum Contaminated liquid - Water	01	DV	1033	gallons
Non-hazardous - petroleum Contaminated liquid - Fuel	01	DV	217	gallons
Container/Tag Number:		Profile #:		
Lab: YA001567		Total 1250 gallons		
Additional Information and Discrepancy Indication:				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name		Signature:		Date:
George L. Taylor				4/17/09
Transporter's Name		Signature:		Date:
Robert L. Smith				4/17/09
Accepting Facility		Signature:		Date:

Return Original form to Generator

Laboratory Analytical Data and Chain-of-Custody Records



Randy Smith
MEC Corporation
MEC Laydown Area
MCAS Cherry Point, NC 28533

Report Number: G894-145

Client Project: Baker MCAS 4146

Dear Randy Smith,

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Ashley Nifong at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS Environmental Services, Inc.

 5/1/09

Project Manager Date
Ashley Nifong

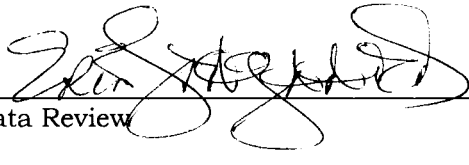
Case Narrative
MEC Corporation
SGS Project: **G894-145**
Project Name: **Baker MCAS 4146**
SGS Environmental Services Inc.

May 1, 2009

- Six soil samples were accepted into the laboratory on April 9, 2009 at 1500 for analyses as indicated on the chain of custody. The samples were received in good condition, with a temperature of 4.0°C.
- All extractions and analyses were completed within holding time limits with the following quality control exceptions.

8270 Analysis

- The internal standard recoveries were outside of acceptance criteria for all submitted samples due to probable matrix effects. These recoveries were confirmed by either reinjection, reextraction or by MS/MSD recoveries for sample **AS4146-005-Floor**.
- Sample **AS4146-005-Floor** has a reported concentration for 2-Methylnaphthalene that has been 'E' flagged.
- Samples **AS4146-003-N-Sidewall** and **AS4146-004-W-Sidewall** were reextracted to confirm high surrogate recoveries.

 Date 05/14/09
Data Review

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-001-S-Sidewall
Sample Matrix	Soil
Date Collected	04/08/09 02:00
Date Received	04/09/09
Date Extracted	04/14/09
Date Analyzed	04/17/09 10:23 - 04/17/09 10:51
Dry Weight	89.2
Dilution Factor	50 - 10
Initial weight (g)	12.21
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	7510	41.0	
C19-C36 Aliphatics	BQL	41.0	
C11-C22 Aromatics	1230	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	NA		40	140
Aromatic (ortho-terphenyl)	95.5		40	140
Fractionation 1 (2-bromonaphthalene)	102		40	140
Fractionation 2 (2-fluorobiphenyl)	112		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

NA = Non-applicable, surrogate diluted out.

Lab Info: G894-145-1I	Lab Info: G894-145-1I
Aliphatic: EP041709/003F0301.D	Aromatic: EP041709/004F0401.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC Corporation

Project Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-002-E-Sidewall
Sample Matrix	Soil
Date Collected	04/08/09 02:15
Date Received	04/09/09
Date Extracted	04/14/09
Date Analyzed	04/17/09 11:18 - 04/17/09 11:46
Dry Weight	87.3
Dilution Factor	50 - 10
Initial weight (g)	12.04
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	5040	41.5	
C19-C36 Aliphatics	BQL	41.5	
C11-C22 Aromatics	736	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	NA		40	140
Aromatic (ortho-terphenyl)	94.0		40	140
Fractionation 1 (2-bromonaphthalene)	97.6		40	140
Fractionation 2 (2-fluorobiphenyl)	106		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

NA = Non-applicable, surrogate diluted out.

Lab Info: G894-145-2I	Lab Info: G894-145-2I
Aliphatic: EP041709/005F0501.D	Aromatic: EP041709/006F0601.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-003-N-Sidewall
Sample Matrix	Soil
Date Collected	04/08/09 02:30
Date Received	04/09/09
Date Extracted	04/14/09
Date Analyzed	04/17/09 12:14 - 04/17/09 12:42
Dry Weight	78.2
Dilution Factor	20 - 2
Initial weight (g)	13.50
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	2660	14.8	
C19-C36 Aliphatics	BQL	14.8	
C11-C22 Aromatics	520	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	NA		40	140
Aromatic (ortho-terphenyl)	91.1		40	140
Fractionation 1 (2-bromonaphthalene)	95.7		40	140
Fractionation 2 (2-fluorobiphenyl)	98.6		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

NA = Non-applicable, surrogate diluted out.

Lab Info: G894-145-3I	Lab Info: G894-145-3I
Aliphatic: EP041709/007F0701.D	Aromatic: EP041709/008F0801.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-004-W-Sidewall
Sample Matrix	Soil
Date Collected	04/08/09 02:40
Date Received	04/09/09
Date Extracted	04/14/09
Date Analyzed	04/17/09 13:10 - 04/16/09 21:30
Dry Weight	70.7
Dilution Factor	10 - 1
Initial weight (g)	13.23
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	717	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	295	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	45.6		40	140
Aromatic (ortho-terphenyl)	73.7		40	140
Fractionation 1 (2-bromonaphthalene)	92.7		40	140
Fractionation 2 (2-fluorobiphenyl)	93.0		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: G894-145-4I	Lab Info: G894-145-4I
Aliphatic: EP041709/009F0901.D	Aromatic: EP041609/016F1201.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-005-Floor
Sample Matrix	Soil
Date Collected	04/08/09 02:50
Date Received	04/09/09
Date Extracted	04/14/09
Date Analyzed	04/17/09 13:38 - 04/17/09 14:06
Dry Weight	84.3
Dilution Factor	50 - 5
Initial weight (g)	12.02
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	5290	41.6	
C19-C36 Aliphatics	BQL	41.6	
C11-C22 Aromatics	756	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	NA		40	140
Aromatic (ortho-terphenyl)	78.8		40	140
Fractionation 1 (2-bromonaphthalene)	85.3		40	140
Fractionation 2 (2-fluorobiphenyl)	91.4		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

NA = Non-applicable, surrogate diluted out.

Lab Info: G894-145-5I	Lab Info: G894-145-5I
Aliphatic: EP041709/010F1001.D	Aromatic: EP041709/011F1101.D

Reviewed By: CD

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-006-Under Leak
Sample Matrix	Soil
Date Collected	04/08/09 03:00
Date Received	04/09/09
Date Extracted	04/14/09
Date Analyzed	04/17/09 14:35 - 04/17/09 15:03
Dry Weight	81.3
Dilution Factor	50 - 5
Initial weight (g)	12.50
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	7410	40.0	
C19-C36 Aliphatics	BQL	40.0	
C11-C22 Aromatics	1280	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	NA		40	140
Aromatic (ortho-terphenyl)	87.9		40	140
Fractionation 1 (2-bromonaphthalene)	95.6		40	140
Fractionation 2 (2-fluorobiphenyl)	106		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

NA = Non-applicable, surrogate diluted out.

Lab Info: G894-145-6I	Lab Info: G894-145-6I
Aliphatic: EP041709/012F1201.D	Aromatic: EP041709/013F1301.D

Reviewed By: 

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 02/24/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	6.70	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	4.67	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	2.55	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 04/16/09
04/16/09Filenames: ep041609/001f0101.d
ep041609/002f0201.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	3.2 ✓	≤±25%
C19-C36 Aliphatics	100	16.7	1.8 ✓	≤±25%
C11-C22 Aromatics	100	16.7	3.8 ✓	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 02/24/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	6.70	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	4.67	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	2.55	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 04/16/09
04/17/09Filenames: ep041609/021f0101.d
ep041609/022f1801.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	3.3 ✓	≤±25%
C19-C36 Aliphatics	100	16.7	5.1 ✓	≤±25%
C11-C22 Aromatics	100	16.7	11.3 ✓	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 02/24/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	6.70	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	4.67	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	2.55	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 04/17/09
04/17/09Filenames: ep041709/001f0101.d
ep041709/002f0201.d

Calibration Check

Range	Levels (µg/L) (mg/Kg)		%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	-2.8 ✓	±25%
C19-C36 Aliphatics	100	16.7	0.3 ✓	±25%
C11-C22 Aromatics	100	16.7	-1.7 ✓	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 02/24/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	6.70	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	4.67	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	2.55	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 04/17/09
04/17/09Filenames: ep041709/023f2301.d
ep041709/024f2401.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	3.3 ✓	≤±25%
C19-C36 Aliphatics	100	16.7	5.5 ✓	≤±25%
C11-C22 Aromatics	100	16.7	1.1 ✓	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-001-S-Sidewall
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	04/08/09 02:00
Date Received	04/09/09
Date Extracted	04/10/09
Date Analyzed	04/28/09 17:40 - 04/28/09 17:40
Dry Weight	89.2
Dilution Factor	20 - 20

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	71.2	24.8		
C ₉ -C ₁₂ Aliphatics**	2520	24.8		
C ₉ -C ₁₀ Aromatics**	2050	24.8		
		Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID		104		70 130
Surrogate % Recovery - FID		114		70 130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g894-145-1e	Lab Info: g894-145-1e
FID Info: VP042809/022F0101.D	PID Info: VP042809/022R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-002-E-Sidewall
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	04/08/09 02:15
Date Received	04/09/09
Date Extracted	04/10/09
Date Analyzed	04/29/09 22:25 - 04/29/09 22:25
Dry Weight	87.3
Dilution Factor	10 - 10

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	63.4	10.0		
C ₉ -C ₁₂ Aliphatics**	1330	10.0		
C ₉ -C ₁₀ Aromatics**	1360	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	107		70	130
Surrogate % Recovery - FID	131	***	70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

*** = High surrogate recovery due to matrix interference.

Lab Info: g894-145-2e	Lab Info: g894-145-2e
FID Info: VP042909/029F0101.D	PID Info: VP042909/029R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

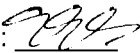
Sample Information	
Sample Identification	AS4146-003-N-Sidewall
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	04/08/09 02:30
Date Received	04/09/09
Date Extracted	04/10/09
Date Analyzed	04/29/09 22:51 - 04/29/09 22:51
Dry Weight	78.2
Dilution Factor	10 - 10

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	27.0	11.6		
C ₉ -C ₁₂ Aliphatics**	1080	11.6		
C ₉ -C ₁₀ Aromatics**	757	11.6		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	96.5		70	130
Surrogate % Recovery - FID	116		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g894-145-3e	Lab Info: g894-145-3e
FID Info: VP042909/030F0101.D	PID Info: VP042909/030R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: MEC CorporationProject Name: Baker MCAS 4146

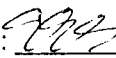
Sample Information	
Sample Identification	AS4146-004-W-Sidewall
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	04/08/09 02:40
Date Received	04/09/09
Date Extracted	04/10/09
Date Analyzed	04/29/09 21:06 - 04/29/09 21:06
Dry Weight	70.7
Dilution Factor	2 - 2

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	11.6	10.0		
C ₉ -C ₁₂ Aliphatics**	319	10.0		
C ₉ -C ₁₀ Aromatics**	382	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	101		70	130
Surrogate % Recovery - FID	126		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g894-145-4e	Lab Info: g894-145-4e
FID Info: VP042909/026F0101.D	PID Info: VP042909/026R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-005-Floor
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	04/08/09 02:50
Date Received	04/09/09
Date Extracted	04/10/09
Date Analyzed	04/29/09 21:32 - 04/29/09 21:32
Dry Weight	84.3
Dilution Factor	2 - 2

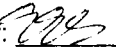
Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	18.7	10.0		
C ₉ -C ₁₂ Aliphatics**	321	10.0		
C ₉ -C ₁₀ Aromatics**	521	10.0		
	Percent Recovery	Flags	Limits	
			Lower	Upper
Surrogate % Recovery - PID	109		70	130
Surrogate % Recovery - FID	134	***	70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

*** = High surrogate recovery due to matrix interference.

Lab Info: g894-145-5e	Lab Info: g894-145-5e
FID Info: VP042909/027F0101.D	PID Info: VP042909/027R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: MEC CorporationProject Name: Baker MCAS 4146

Sample Information	
Sample Identification	AS4146-006-Under Leak
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	04/08/09 03:00
Date Received	04/09/09
Date Extracted	04/10/09
Date Analyzed	04/29/09 21:59 - 04/29/09 21:59
Dry Weight	81.3
Dilution Factor	5 - 5

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	21.7	10.0		
C ₉ -C ₁₂ Aliphatics**	517	10.0		
C ₉ -C ₁₀ Aromatics**	591	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	104		70	130
Surrogate % Recovery - FID	119		70	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Lab Info: g894-145-6e	Lab Info: g894-145-6e
FID Info: VP042909/028F0101.D	PID Info: VP042909/028R0101.D

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 04/23/09PID Initial Calibration Date: 04/23/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	12.90	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 04/28/09Filename: VP042809/014F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	13.0 ✓	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-1.6 ✓	±25%
C ₉ -C ₁₀ Aromatics	200	16	-3.5 ✓	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date:

04/23/09

PID Initial Calibration Date:

04/23/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	12.90	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date:

04/28/09

Filename:

VP042809/027F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	12.6	±25%
C ₉ -C ₁₂ Aliphatics	200	16	5.0	±25%
C ₉ -C ₁₀ Aromatics	200	16	2.2	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

dft

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 04/23/09PID Initial Calibration Date: 04/23/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	12.90	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 04/29/09Filename: VP042909/002F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	13.3	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-2.5	±25%
C ₉ -C ₁₀ Aromatics	200	16	-6.8	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 04/23/09PID Initial Calibration Date: 04/23/09

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	12.90	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	0.99	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 04/29/09Filename: VP042909/036F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	7.4	±25%
C ₉ -C ₁₂ Aliphatics	200	16	-2.9	±25%
C ₉ -C ₁₀ Aromatics	200	16	-6.1	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-001-S-Sidewall

Client Project ID: Baker MCAS 4146

Lab Sample ID: G894-145-1D

Lab Project ID: G894-145

Report Basis: Dry Weight

Analyzed By: CLP

Date Collected: 4/8/2009 2:00

Date Received: 4/9/2009

Matrix: Soil

Sample Amount: 4.32 g

%Solids: 89.2

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	32400	1000	4/11/2009
Benzene	BQL	1300	1000	4/11/2009
Bromobenzene	BQL	1300	1000	4/11/2009
Bromochloromethane	BQL	1300	1000	4/11/2009
Bromodichloromethane	BQL	1300	1000	4/11/2009
Bromoform	BQL	1300	1000	4/11/2009
Bromomethane	BQL	1300	1000	4/11/2009
2-Butanone	BQL	32400	1000	4/11/2009
n-Butylbenzene	18300	1300	1000	4/11/2009
sec-Butylbenzene	11000	1300	1000	4/11/2009
tert-Butylbenzene	BQL	1300	1000	4/11/2009
Carbon disulfide	BQL	1300	1000	4/11/2009
Carbon tetrachloride	BQL	1300	1000	4/11/2009
Chlorobenzene	BQL	1300	1000	4/11/2009
Chloroethane	BQL	1300	1000	4/11/2009
Chloroform	BQL	1300	1000	4/11/2009
Chloromethane	BQL	1300	1000	4/11/2009
2-Chlorotoluene	BQL	1300	1000	4/11/2009
4-Chlorotoluene	BQL	1300	1000	4/11/2009
Dibromochloromethane	BQL	1300	1000	4/11/2009
1,2-Dibromo-3-chloropropane	BQL	6490	1000	4/11/2009
Dibromomethane	BQL	1300	1000	4/11/2009
1,2-Dibromoethane (EDB)	BQL	1300	1000	4/11/2009
1,2-Dichlorobenzene	BQL	1300	1000	4/11/2009
1,3-Dichlorobenzene	BQL	1300	1000	4/11/2009
1,4-Dichlorobenzene	BQL	1300	1000	4/11/2009
trans-1,4-Dichloro-2-butene	BQL	6490	1000	4/11/2009
1,1-Dichloroethane	BQL	1300	1000	4/11/2009
1,1-Dichloroethene	BQL	1300	1000	4/11/2009
1,2-Dichloroethane	BQL	1300	1000	4/11/2009
cis-1,2-Dichloroethene	BQL	1300	1000	4/11/2009
trans-1,2-dichloroethene	BQL	1300	1000	4/11/2009
1,2-Dichloropropane	BQL	1300	1000	4/11/2009
1,3-Dichloropropane	BQL	1300	1000	4/11/2009
2,2-Dichloropropane	BQL	1300	1000	4/11/2009
1,1-Dichloropropene	BQL	1300	1000	4/11/2009
cis-1,3-Dichloropropene	BQL	1300	1000	4/11/2009
trans-1,3-Dichloropropene	BQL	1300	1000	4/11/2009
Dichlorodifluoromethane	BQL	6490	1000	4/11/2009
Diisopropyl ether (DIPE)	BQL	1300	1000	4/11/2009
Ethylbenzene	1450	1300	1000	4/11/2009
Hexachlorobutadiene	BQL	1300	1000	4/11/2009
2-Hexanone	BQL	6490	1000	4/11/2009
Iodomethane	BQL	1300	1000	4/11/2009
Isopropylbenzene	5810	1300	1000	4/11/2009
4-Isopropyltoluene	7200	1300	1000	4/11/2009

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-001-S-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-1D
 Lab Project ID: G894-145
 Report Basis: Dry Weight

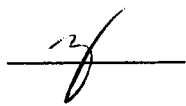
Analyzed By: CLP
 Date Collected: 4/8/2009 2:00
 Date Received: 4/9/2009
 Matrix: Soil
 Sample Amount: 4.32 g
 %Solids: 89.2

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Methylene chloride	BQL	6490	1000	4/11/2009
4-Methyl-2-pentanone	BQL	6490	1000	4/11/2009
Methyl-tert-butyl ether (MTBE)	BQL	1300	1000	4/11/2009
Naphthalene	22600	1300	1000	4/11/2009
n-Propyl benzene	6270	1300	1000	4/11/2009
Styrene	BQL	1300	1000	4/11/2009
1,1,1,2-Tetrachloroethane	BQL	1300	1000	4/11/2009
1,1,2,2-Tetrachloroethane	BQL	1300	1000	4/11/2009
Tetrachloroethene	BQL	1300	1000	4/11/2009
Toluene	BQL	1300	1000	4/11/2009
1,2,3-Trichlorobenzene	BQL	1300	1000	4/11/2009
1,2,4-Trichlorobenzene	BQL	1300	1000	4/11/2009
Trichloroethene	BQL	1300	1000	4/11/2009
1,1,1-Trichloroethane	BQL	1300	1000	4/11/2009
1,1,2-Trichloroethane	BQL	1300	1000	4/11/2009
Trichlorofluoromethane	BQL	1300	1000	4/11/2009
1,2,3-Trichloropropane	BQL	1300	1000	4/11/2009
1,2,4-Trimethylbenzene	52600	1300	1000	4/11/2009
1,3,5-Trimethylbenzene	12100	1300	1000	4/11/2009
Vinyl chloride	BQL	1300	1000	4/11/2009
m-,p-Xylene	6710	2590	1000	4/11/2009
o-Xylene	5600	1300	1000	4/11/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.94	99
Toluene-d8	10	10	100
4-Bromofluorobenzene	10	10.5	105

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-002-E-Sidewall

Client Project ID: Baker MCAS 4146

Lab Sample ID: G894-145-2D

Lab Project ID: G894-145

Report Basis: Dry Weight

Analyzed By: CLP

Date Collected: 4/8/2009 2:15

Date Received: 4/9/2009

Matrix: Soil

Sample Amount: 3.04 g

%Solids: 87.3

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	47100	1000	4/11/2009
Benzene	BQL	1880	1000	4/11/2009
Bromobenzene	BQL	1880	1000	4/11/2009
Bromochloromethane	BQL	1880	1000	4/11/2009
Bromodichloromethane	BQL	1880	1000	4/11/2009
Bromoform	BQL	1880	1000	4/11/2009
Bromomethane	BQL	1880	1000	4/11/2009
2-Butanone	BQL	47100	1000	4/11/2009
n-Butylbenzene	23100	1880	1000	4/11/2009
sec-Butylbenzene	13200	1880	1000	4/11/2009
tert-Butylbenzene	BQL	1880	1000	4/11/2009
Carbon disulfide	BQL	1880	1000	4/11/2009
Carbon tetrachloride	BQL	1880	1000	4/11/2009
Chlorobenzene	BQL	1880	1000	4/11/2009
Chloroethane	BQL	1880	1000	4/11/2009
Chloroform	BQL	1880	1000	4/11/2009
Chloromethane	BQL	1880	1000	4/11/2009
2-Chlorotoluene	BQL	1880	1000	4/11/2009
4-Chlorotoluene	BQL	1880	1000	4/11/2009
Dibromochloromethane	BQL	1880	1000	4/11/2009
1,2-Dibromo-3-chloropropane	BQL	9420	1000	4/11/2009
Dibromomethane	BQL	1880	1000	4/11/2009
1,2-Dibromoethane (EDB)	BQL	1880	1000	4/11/2009
1,2-Dichlorobenzene	BQL	1880	1000	4/11/2009
1,3-Dichlorobenzene	BQL	1880	1000	4/11/2009
1,4-Dichlorobenzene	BQL	1880	1000	4/11/2009
trans-1,4-Dichloro-2-butene	BQL	9420	1000	4/11/2009
1,1-Dichloroethane	BQL	1880	1000	4/11/2009
1,1-Dichloroethene	BQL	1880	1000	4/11/2009
1,2-Dichloroethane	BQL	1880	1000	4/11/2009
cis-1,2-Dichloroethene	BQL	1880	1000	4/11/2009
trans-1,2-dichloroethene	BQL	1880	1000	4/11/2009
1,2-Dichloropropane	BQL	1880	1000	4/11/2009
1,3-Dichloropropane	BQL	1880	1000	4/11/2009
2,2-Dichloropropane	BQL	1880	1000	4/11/2009
1,1-Dichloropropene	BQL	1880	1000	4/11/2009
cis-1,3-Dichloropropene	BQL	1880	1000	4/11/2009
trans-1,3-Dichloropropene	BQL	1880	1000	4/11/2009
Dichlorodifluoromethane	BQL	9420	1000	4/11/2009
Diisopropyl ether (DIPE)	BQL	1880	1000	4/11/2009
Ethylbenzene	BQL	1880	1000	4/11/2009
Hexachlorobutadiene	BQL	1880	1000	4/11/2009
2-Hexanone	BQL	9420	1000	4/11/2009
Iodomethane	BQL	1880	1000	4/11/2009
Isopropylbenzene	6080	1880	1000	4/11/2009
4-Isopropyltoluene	8700	1880	1000	4/11/2009

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-002-E-Sidewall

Client Project ID: Baker MCAS 4146

Lab Sample ID: G894-145-2D

Lab Project ID: G894-145

Report Basis: Dry Weight

Analyzed By: CLP

Date Collected: 4/8/2009 2:15

Date Received: 4/9/2009

Matrix: Soil

Sample Amount: 3.04 g

%Solids: 87.3

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Methylene chloride	BQL	9420	1000	4/11/2009
4-Methyl-2-pentanone	BQL	9420	1000	4/11/2009
Methyl-tert-butyl ether (MTBE)	BQL	1880	1000	4/11/2009
Naphthalene	28900	1880	1000	4/11/2009
n-Propyl benzene	6590	1880	1000	4/11/2009
Styrene	BQL	1880	1000	4/11/2009
1,1,1,2-Tetrachloroethane	BQL	1880	1000	4/11/2009
1,1,2,2-Tetrachloroethane	BQL	1880	1000	4/11/2009
Tetrachloroethene	BQL	1880	1000	4/11/2009
Toluene	BQL	1880	1000	4/11/2009
1,2,3-Trichlorobenzene	BQL	1880	1000	4/11/2009
1,2,4-Trichlorobenzene	BQL	1880	1000	4/11/2009
Trichloroethene	BQL	1880	1000	4/11/2009
1,1,1-Trichloroethane	BQL	1880	1000	4/11/2009
1,1,2-Trichloroethane	BQL	1880	1000	4/11/2009
Trichlorofluoromethane	BQL	1880	1000	4/11/2009
1,2,3-Trichloropropane	BQL	1880	1000	4/11/2009
1,2,4-Trimethylbenzene	58700	1880	1000	4/11/2009
1,3,5-Trimethylbenzene	14600	1880	1000	4/11/2009
Vinyl chloride	BQL	1880	1000	4/11/2009
m-,p-Xylene	6220	3770	1000	4/11/2009
o-Xylene	5330	1880	1000	4/11/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.97	100
Toluene-d8	10	10.1	101
4-Bromofluorobenzene	10	10.5	105

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-003-N-Sidewall

Client Project ID: Baker MCAS 4146

Lab Sample ID: G894-145-3D

Lab Project ID: G894-145

Report Basis: Dry Weight

Analyzed By: CLP

Date Collected: 4/8/2009 2:30

Date Received: 4/9/2009

Matrix: Soil

Sample Amount: 3.38 g

%Solids: 78.2

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	47300	1000	4/13/2009
Benzene	BQL	1890	1000	4/13/2009
Bromobenzene	BQL	1890	1000	4/13/2009
Bromochloromethane	BQL	1890	1000	4/13/2009
Bromodichloromethane	BQL	1890	1000	4/13/2009
Bromoform	BQL	1890	1000	4/13/2009
Bromomethane	BQL	1890	1000	4/13/2009
2-Butanone	BQL	47300	1000	4/13/2009
n-Butylbenzene	9720	1890	1000	4/13/2009
sec-Butylbenzene	5620	1890	1000	4/13/2009
tert-Butylbenzene	BQL	1890	1000	4/13/2009
Carbon disulfide	BQL	1890	1000	4/13/2009
Carbon tetrachloride	BQL	1890	1000	4/13/2009
Chlorobenzene	BQL	1890	1000	4/13/2009
Chloroethane	BQL	1890	1000	4/13/2009
Chloroform	BQL	1890	1000	4/13/2009
Chloromethane	BQL	1890	1000	4/13/2009
2-Chlorotoluene	BQL	1890	1000	4/13/2009
4-Chlorotoluene	BQL	1890	1000	4/13/2009
Dibromochloromethane	BQL	1890	1000	4/13/2009
1,2-Dibromo-3-chloropropane	BQL	9450	1000	4/13/2009
Dibromomethane	BQL	1890	1000	4/13/2009
1,2-Dibromoethane (EDB)	BQL	1890	1000	4/13/2009
1,2-Dichlorobenzene	BQL	1890	1000	4/13/2009
1,3-Dichlorobenzene	BQL	1890	1000	4/13/2009
1,4-Dichlorobenzene	BQL	1890	1000	4/13/2009
trans-1,4-Dichloro-2-butene	BQL	9450	1000	4/13/2009
1,1-Dichloroethane	BQL	1890	1000	4/13/2009
1,1-Dichloroethene	BQL	1890	1000	4/13/2009
1,2-Dichloroethane	BQL	1890	1000	4/13/2009
cis-1,2-Dichloroethene	BQL	1890	1000	4/13/2009
trans-1,2-dichloroethene	BQL	1890	1000	4/13/2009
1,2-Dichloropropane	BQL	1890	1000	4/13/2009
1,3-Dichloropropane	BQL	1890	1000	4/13/2009
2,2-Dichloropropane	BQL	1890	1000	4/13/2009
1,1-Dichloropropene	BQL	1890	1000	4/13/2009
cis-1,3-Dichloropropene	BQL	1890	1000	4/13/2009
trans-1,3-Dichloropropene	BQL	1890	1000	4/13/2009
Dichlorodifluoromethane	BQL	9450	1000	4/13/2009
Diisopropyl ether (DIPE)	BQL	1890	1000	4/13/2009
Ethylbenzene	BQL	1890	1000	4/13/2009
Hexachlorobutadiene	BQL	1890	1000	4/13/2009
2-Hexanone	BQL	9450	1000	4/13/2009
Iodomethane	BQL	1890	1000	4/13/2009
Isopropylbenzene	BQL	1890	1000	4/13/2009
4-Isopropyltoluene	3800	1890	1000	4/13/2009

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-003-N-Sidewall

Client Project ID: Baker MCAS 4146

Lab Sample ID: G894-145-3D

Lab Project ID: G894-145

Report Basis: Dry Weight

Analyzed By: CLP

Date Collected: 4/8/2009 2:30

Date Received: 4/9/2009

Matrix: Soil

Sample Amount: 3.38 g

%Solids: 78.2

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Methylene chloride	BQL	9450	1000	4/13/2009
4-Methyl-2-pentanone	BQL	9450	1000	4/13/2009
Methyl-tert-butyl ether (MTBE)	BQL	1890	1000	4/13/2009
Naphthalene	11900	1890	1000	4/13/2009
n-Propyl benzene	2140	1890	1000	4/13/2009
Styrene	BQL	1890	1000	4/13/2009
1,1,1,2-Tetrachloroethane	BQL	1890	1000	4/13/2009
1,1,2,2-Tetrachloroethane	BQL	1890	1000	4/13/2009
Tetrachloroethene	BQL	1890	1000	4/13/2009
Toluene	BQL	1890	1000	4/13/2009
1,2,3-Trichlorobenzene	BQL	1890	1000	4/13/2009
1,2,4-Trichlorobenzene	BQL	1890	1000	4/13/2009
Trichloroethene	BQL	1890	1000	4/13/2009
1,1,1-Trichloroethane	BQL	1890	1000	4/13/2009
1,1,2-Trichloroethane	BQL	1890	1000	4/13/2009
Trichlorofluoromethane	BQL	1890	1000	4/13/2009
1,2,3-Trichloropropane	BQL	1890	1000	4/13/2009
1,2,4-Trimethylbenzene	18100	1890	1000	4/13/2009
1,3,5-Trimethylbenzene	4760	1890	1000	4/13/2009
Vinyl chloride	BQL	1890	1000	4/13/2009
m-,p-Xylene	BQL	3780	1000	4/13/2009
o-Xylene	BQL	1890	1000	4/13/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	9.93	99
4-Bromofluorobenzene	10	10.4	104

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 3Reviewed By: MD

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-004-W-Sidewall
Client Project ID: Baker MCAS 4146
Lab Sample ID: G894-145-4D
Lab Project ID: G894-145
Report Basis: Dry Weight

Analyzed By: CLP
Date Collected: 4/8/2009 2:40
Date Received: 4/9/2009
Matrix: Soil
Sample Amount: 4.5 g
%Solids: 70.7

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	39300	1000	4/13/2009
Benzene	BQL	1570	1000	4/13/2009
Bromobenzene	BQL	1570	1000	4/13/2009
Bromochloromethane	BQL	1570	1000	4/13/2009
Bromodichloromethane	BQL	1570	1000	4/13/2009
Bromoform	BQL	1570	1000	4/13/2009
Bromomethane	BQL	1570	1000	4/13/2009
2-Butanone	BQL	39300	1000	4/13/2009
n-Butylbenzene	BQL	1570	1000	4/13/2009
sec-Butylbenzene	2840	1570	1000	4/13/2009
tert-Butylbenzene	BQL	1570	1000	4/13/2009
Carbon disulfide	BQL	1570	1000	4/13/2009
Carbon tetrachloride	BQL	1570	1000	4/13/2009
Chlorobenzene	BQL	1570	1000	4/13/2009
Chloroethane	BQL	1570	1000	4/13/2009
Chloroform	BQL	1570	1000	4/13/2009
Chloromethane	BQL	1570	1000	4/13/2009
2-Chlorotoluene	BQL	1570	1000	4/13/2009
4-Chlorotoluene	BQL	1570	1000	4/13/2009
Dibromochloromethane	BQL	1570	1000	4/13/2009
1,2-Dibromo-3-chloropropane	BQL	7860	1000	4/13/2009
Dibromomethane	BQL	1570	1000	4/13/2009
1,2-Dibromoethane (EDB)	BQL	1570	1000	4/13/2009
1,2-Dichlorobenzene	BQL	1570	1000	4/13/2009
1,3-Dichlorobenzene	BQL	1570	1000	4/13/2009
1,4-Dichlorobenzene	BQL	1570	1000	4/13/2009
trans-1,4-Dichloro-2-butene	BQL	7860	1000	4/13/2009
1,1-Dichloroethane	BQL	1570	1000	4/13/2009
1,1-Dichloroethene	BQL	1570	1000	4/13/2009
1,2-Dichloroethane	BQL	1570	1000	4/13/2009
cis-1,2-Dichloroethene	BQL	1570	1000	4/13/2009
trans-1,2-dichloroethene	BQL	1570	1000	4/13/2009
1,2-Dichloropropane	BQL	1570	1000	4/13/2009
1,3-Dichloropropane	BQL	1570	1000	4/13/2009
2,2-Dichloropropane	BQL	1570	1000	4/13/2009
1,1-Dichloropropene	BQL	1570	1000	4/13/2009
cis-1,3-Dichloropropene	BQL	1570	1000	4/13/2009
trans-1,3-Dichloropropene	BQL	1570	1000	4/13/2009
Dichlorodifluoromethane	BQL	7860	1000	4/13/2009
Diisopropyl ether (DIPE)	BQL	1570	1000	4/13/2009
Ethylbenzene	BQL	1570	1000	4/13/2009
Hexachlorobutadiene	BQL	1570	1000	4/13/2009
2-Hexanone	BQL	7860	1000	4/13/2009
Iodomethane	BQL	1570	1000	4/13/2009
Isopropylbenzene	BQL	1570	1000	4/13/2009
4-Isopropyltoluene	1900	1570	1000	4/13/2009

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-004-W-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-4D
 Lab Project ID: G894-145
 Report Basis: Dry Weight

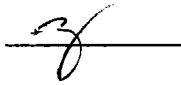
Analyzed By: CLP
 Date Collected: 4/8/2009 2:40
 Date Received: 4/9/2009
 Matrix: Soil
 Sample Amount: 4.5 g
 %Solids: 70.7

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Methylene chloride	BQL	7860	1000	4/13/2009
4-Methyl-2-pentanone	BQL	7860	1000	4/13/2009
Methyl-tert-butyl ether (MTBE)	BQL	1570	1000	4/13/2009
Naphthalene	7500	1570	1000	4/13/2009
n-Propyl benzene	BQL	1570	1000	4/13/2009
Styrene	BQL	1570	1000	4/13/2009
1,1,1,2-Tetrachloroethane	BQL	1570	1000	4/13/2009
1,1,2,2-Tetrachloroethane	BQL	1570	1000	4/13/2009
Tetrachloroethene	BQL	1570	1000	4/13/2009
Toluene	BQL	1570	1000	4/13/2009
1,2,3-Trichlorobenzene	BQL	1570	1000	4/13/2009
1,2,4-Trichlorobenzene	BQL	1570	1000	4/13/2009
Trichloroethene	BQL	1570	1000	4/13/2009
1,1,1-Trichloroethane	BQL	1570	1000	4/13/2009
1,1,2-Trichloroethane	BQL	1570	1000	4/13/2009
Trichlorofluoromethane	BQL	1570	1000	4/13/2009
1,2,3-Trichloropropane	BQL	1570	1000	4/13/2009
1,2,4-Trimethylbenzene	8820	1570	1000	4/13/2009
1,3,5-Trimethylbenzene	2440	1570	1000	4/13/2009
Vinyl chloride	BQL	1570	1000	4/13/2009
m-,p-Xylene	BQL	3140	1000	4/13/2009
o-Xylene	BQL	1570	1000	4/13/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.97	100
Toluene-d8	10	10	100
4-Bromofluorobenzene	10	10.4	104

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-005-Floor
Client Project ID: Baker MCAS 4146
Lab Sample ID: G894-145-5D
Lab Project ID: G894-145
Report Basis: Dry Weight

Analyzed By: CLP
Date Collected: 4/8/2009 2:50
Date Received: 4/9/2009
Matrix: Soil
Sample Amount: 3.92 g
%Solids: 84.3

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	37800	1000	4/14/2009
Benzene	BQL	1510	1000	4/14/2009
Bromobenzene	BQL	1510	1000	4/14/2009
Bromochloromethane	BQL	1510	1000	4/14/2009
Bromodichloromethane	BQL	1510	1000	4/14/2009
Bromoform	BQL	1510	1000	4/14/2009
Bromomethane	BQL	1510	1000	4/14/2009
2-Butanone	BQL	37800	1000	4/14/2009
n-Butylbenzene	13600	1510	1000	4/14/2009
sec-Butylbenzene	10600	1510	1000	4/14/2009
tert-Butylbenzene	BQL	1510	1000	4/14/2009
Carbon disulfide	BQL	1510	1000	4/14/2009
Carbon tetrachloride	BQL	1510	1000	4/14/2009
Chlorobenzene	BQL	1510	1000	4/14/2009
Chloroethane	BQL	1510	1000	4/14/2009
Chloroform	BQL	1510	1000	4/14/2009
Chloromethane	BQL	1510	1000	4/14/2009
2-Chlorotoluene	BQL	1510	1000	4/14/2009
4-Chlorotoluene	BQL	1510	1000	4/14/2009
Dibromochloromethane	BQL	1510	1000	4/14/2009
1,2-Dibromo-3-chloropropane	BQL	7560	1000	4/14/2009
Dibromomethane	BQL	1510	1000	4/14/2009
1,2-Dibromoethane (EDB)	BQL	1510	1000	4/14/2009
1,2-Dichlorobenzene	BQL	1510	1000	4/14/2009
1,3-Dichlorobenzene	BQL	1510	1000	4/14/2009
1,4-Dichlorobenzene	BQL	1510	1000	4/14/2009
trans-1,4-Dichloro-2-butene	BQL	7560	1000	4/14/2009
1,1-Dichloroethane	BQL	1510	1000	4/14/2009
1,1-Dichloroethene	BQL	1510	1000	4/14/2009
1,2-Dichloroethane	BQL	1510	1000	4/14/2009
cis-1,2-Dichloroethene	BQL	1510	1000	4/14/2009
trans-1,2-dichloroethene	BQL	1510	1000	4/14/2009
1,2-Dichloropropane	BQL	1510	1000	4/14/2009
1,3-Dichloropropane	BQL	1510	1000	4/14/2009
2,2-Dichloropropane	BQL	1510	1000	4/14/2009
1,1-Dichloropropene	BQL	1510	1000	4/14/2009
cis-1,3-Dichloropropene	BQL	1510	1000	4/14/2009
trans-1,3-Dichloropropene	BQL	1510	1000	4/14/2009
Dichlorodifluoromethane	BQL	7560	1000	4/14/2009
Diisopropyl ether (DIPE)	BQL	1510	1000	4/14/2009
Ethylbenzene	2360	1510	1000	4/14/2009
Hexachlorobutadiene	BQL	1510	1000	4/14/2009
2-Hexanone	BQL	7560	1000	4/14/2009
Iodomethane	BQL	1510	1000	4/14/2009
Isopropylbenzene	6580	1510	1000	4/14/2009
4-Isopropyltoluene	5190	1510	1000	4/14/2009

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-005-Floor
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-5D
 Lab Project ID: G894-145
 Report Basis: Dry Weight

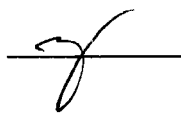
Analyzed By: CLP
 Date Collected: 4/8/2009 2:50
 Date Received: 4/9/2009
 Matrix: Soil
 Sample Amount: 3.92 g
 %Solids: 84.3

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Methylene chloride	BQL	7560	1000	4/14/2009
4-Methyl-2-pentanone	BQL	7560	1000	4/14/2009
Methyl-tert-butyl ether (MTBE)	BQL	1510	1000	4/14/2009
Naphthalene	14500	1510	1000	4/14/2009
n-Propyl benzene	7850	1510	1000	4/14/2009
Styrene	BQL	1510	1000	4/14/2009
1,1,1,2-Tetrachloroethane	BQL	1510	1000	4/14/2009
1,1,2,2-Tetrachloroethane	BQL	1510	1000	4/14/2009
Tetrachloroethene	BQL	1510	1000	4/14/2009
Toluene	BQL	1510	1000	4/14/2009
1,2,3-Trichlorobenzene	BQL	1510	1000	4/14/2009
1,2,4-Trichlorobenzene	BQL	1510	1000	4/14/2009
Trichloroethene	BQL	1510	1000	4/14/2009
1,1,1-Trichloroethane	BQL	1510	1000	4/14/2009
1,1,2-Trichloroethane	BQL	1510	1000	4/14/2009
Trichlorofluoromethane	BQL	1510	1000	4/14/2009
1,2,3-Trichloropropane	BQL	1510	1000	4/14/2009
1,2,4-Trimethylbenzene	38300	1510	1000	4/14/2009
1,3,5-Trimethylbenzene	9300	1510	1000	4/14/2009
Vinyl chloride	BQL	1510	1000	4/14/2009
m-,p-Xylene	7930	3030	1000	4/14/2009
o-Xylene	5610	1510	1000	4/14/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.83	98
Toluene-d8	10	10.2	102
4-Bromofluorobenzene	10	10.5	105

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-006-Under Leak

Client Project ID: Baker MCAS 4146

Lab Sample ID: G894-145-6D

Lab Project ID: G894-145

Report Basis: Dry Weight

Analyzed By: CLP

Date Collected: 4/8/2009 3:00

Date Received: 4/9/2009

Matrix: Soil

Sample Amount: 6.91 g

%Solids: 81.3

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	89000	4000	4/14/2009
Benzene	BQL	3560	4000	4/14/2009
Bromobenzene	BQL	3560	4000	4/14/2009
Bromochloromethane	BQL	3560	4000	4/14/2009
Bromodichloromethane	BQL	3560	4000	4/14/2009
Bromoform	BQL	3560	4000	4/14/2009
Bromomethane	BQL	3560	4000	4/14/2009
2-Butanone	BQL	89000	4000	4/14/2009
n-Butylbenzene	13200	3560	4000	4/14/2009
sec-Butylbenzene	10100	3560	4000	4/14/2009
tert-Butylbenzene	BQL	3560	4000	4/14/2009
Carbon disulfide	BQL	3560	4000	4/14/2009
Carbon tetrachloride	BQL	3560	4000	4/14/2009
Chlorobenzene	BQL	3560	4000	4/14/2009
Chloroethane	BQL	3560	4000	4/14/2009
Chloroform	BQL	3560	4000	4/14/2009
Chloromethane	BQL	3560	4000	4/14/2009
2-Chlorotoluene	BQL	3560	4000	4/14/2009
4-Chlorotoluene	BQL	3560	4000	4/14/2009
Dibromochloromethane	BQL	3560	4000	4/14/2009
1,2-Dibromo-3-chloropropane	BQL	17800	4000	4/14/2009
Dibromomethane	BQL	3560	4000	4/14/2009
1,2-Dibromoethane (EDB)	BQL	3560	4000	4/14/2009
1,2-Dichlorobenzene	BQL	3560	4000	4/14/2009
1,3-Dichlorobenzene	BQL	3560	4000	4/14/2009
1,4-Dichlorobenzene	BQL	3560	4000	4/14/2009
trans-1,4-Dichloro-2-butene	BQL	17800	4000	4/14/2009
1,1-Dichloroethane	BQL	3560	4000	4/14/2009
1,1-Dichloroethene	BQL	3560	4000	4/14/2009
1,2-Dichloroethane	BQL	3560	4000	4/14/2009
cis-1,2-Dichloroethene	BQL	3560	4000	4/14/2009
trans-1,2-dichloroethene	BQL	3560	4000	4/14/2009
1,2-Dichloropropane	BQL	3560	4000	4/14/2009
1,3-Dichloropropane	BQL	3560	4000	4/14/2009
2,2-Dichloropropane	BQL	3560	4000	4/14/2009
1,1-Dichloropropene	BQL	3560	4000	4/14/2009
cis-1,3-Dichloropropene	BQL	3560	4000	4/14/2009
trans-1,3-Dichloropropene	BQL	3560	4000	4/14/2009
Dichlorodifluoromethane	BQL	17800	4000	4/14/2009
Diisopropyl ether (DIPE)	BQL	3560	4000	4/14/2009
Ethylbenzene	BQL	3560	4000	4/14/2009
Hexachlorobutadiene	BQL	3560	4000	4/14/2009
2-Hexanone	BQL	17800	4000	4/14/2009
Iodomethane	BQL	3560	4000	4/14/2009
Isopropylbenzene	6550	3560	4000	4/14/2009
4-Isopropyltoluene	4670	3560	4000	4/14/2009

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: AS4146-006-Under Leak
Client Project ID: Baker MCAS 4146
Lab Sample ID: G894-145-6D
Lab Project ID: G894-145
Report Basis: Dry Weight

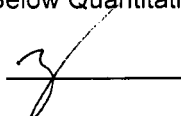
Analyzed By: CLP
Date Collected: 4/8/2009 3:00
Date Received: 4/9/2009
Matrix: Soil
Sample Amount: 6.91 g
%Solids: 81.3

Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Methylene chloride	BQL	17800	4000	4/14/2009
4-Methyl-2-pentanone	BQL	17800	4000	4/14/2009
Methyl-tert-butyl ether (MTBE)	BQL	3560	4000	4/14/2009
Naphthalene	19500	3560	4000	4/14/2009
n-Propyl benzene	8230	3560	4000	4/14/2009
Styrene	BQL	3560	4000	4/14/2009
1,1,1,2-Tetrachloroethane	BQL	3560	4000	4/14/2009
1,1,2,2-Tetrachloroethane	BQL	3560	4000	4/14/2009
Tetrachloroethene	BQL	3560	4000	4/14/2009
Toluene	BQL	3560	4000	4/14/2009
1,2,3-Trichlorobenzene	BQL	3560	4000	4/14/2009
1,2,4-Trichlorobenzene	BQL	3560	4000	4/14/2009
Trichloroethene	BQL	3560	4000	4/14/2009
1,1,1-Trichloroethane	BQL	3560	4000	4/14/2009
1,1,2-Trichloroethane	BQL	3560	4000	4/14/2009
Trichlorofluoromethane	BQL	3560	4000	4/14/2009
1,2,3-Trichloropropane	BQL	3560	4000	4/14/2009
1,2,4-Trimethylbenzene	34800	3560	4000	4/14/2009
1,3,5-Trimethylbenzene	8480	3560	4000	4/14/2009
Vinyl chloride	BQL	3560	4000	4/14/2009
m-,p-Xylene	BQL	7120	4000	4/14/2009
o-Xylene	3990	3560	4000	4/14/2009

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	10.1	101
4-Bromofluorobenzene	10	10	100

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-001-S-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-1J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 35.61 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:00
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 89.22

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	3150	10	4/27/2009
Acenaphthylene	BQL	3150	10	4/27/2009
Anthracene	BQL	3150	10	4/27/2009
Benzo[a]anthracene	BQL	3150	10	4/27/2009
Benzo[a]pyrene	BQL	3150	10	4/27/2009
Benzo[b]fluoranthene	BQL	3150	10	4/27/2009
Benzo[g,h,i]perylene	BQL	3150	10	4/27/2009
Benzo[k]fluoranthene	BQL	3150	10	4/27/2009
Benzoic Acid	BQL	15700	10	4/27/2009
Bis(2-chloroethoxy)methane	BQL	3150	10	4/27/2009
Bis(2-chloroethyl)ether	BQL	3150	10	4/27/2009
Bis(2-chloroisopropyl)ether	BQL	3150	10	4/27/2009
Bis(2-ethylhexyl)phthalate	BQL	3150	10	4/27/2009
4-bromophenyl phenyl ether	BQL	3150	10	4/27/2009
Butylbenzylphthalate	BQL	3150	10	4/27/2009
2-Chloronaphthalene	BQL	3150	10	4/27/2009
2-Chlorophenol	BQL	3150	10	4/27/2009
4-Chloro-3-methylphenol	BQL	3150	10	4/27/2009
4-Chloroaniline	BQL	15700	10	4/27/2009
4-Chlorophenyl phenyl ether	BQL	3150	10	4/27/2009
Chrysene	BQL	3150	10	4/27/2009
Dibenzo[a,h]anthracene	BQL	3150	10	4/27/2009
Dibenzofuran	BQL	3150	10	4/27/2009
Di-n-Butylphthalate	BQL	3150	10	4/27/2009
1,2-Dichlorobenzene	BQL	3150	10	4/27/2009
1,3-Dichlorobenzene	BQL	3150	10	4/27/2009
1,4-Dichlorobenzene	BQL	3150	10	4/27/2009
3,3'-Dichlorobenzidine	BQL	6300	10	4/27/2009
2,4-Dichlorophenol	BQL	3150	10	4/27/2009
Diethylphthalate	BQL	3150	10	4/27/2009
Dimethylphthalate	BQL	3150	10	4/27/2009
2,4-Dimethylphenol	BQL	3150	10	4/27/2009
Di-n-octylphthalate	BQL	3150	10	4/27/2009
4,6-Dinitro-2-methylphenol	BQL	15700	10	4/27/2009
2,4-Dinitrophenol	BQL	15700	10	4/27/2009
2,4-Dinitrotoluene	BQL	3150	10	4/27/2009
2,6-Dinitrotoluene	BQL	3150	10	4/27/2009
Fluoranthene	BQL	3150	10	4/27/2009
Fluorene	BQL	3150	10	4/27/2009
Hexachlorobenzene	BQL	3150	10	4/27/2009
Hexachlorobutadiene	BQL	3150	10	4/27/2009
Hexachlorocyclopentadiene	BQL	6300	10	4/27/2009
Hexachloroethane	BQL	3150	10	4/27/2009
Indeno(1,2,3-c,d)pyrene	BQL	3150	10	4/27/2009
Isophorone	BQL	3150	10	4/27/2009
2-Methylnaphthalene	45000	3150	10	4/27/2009
2-Methylphenol	BQL	3150	10	4/27/2009

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-001-S-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-1J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 35.61 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:00
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 89.22

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
3- & 4-Methylphenol	BQL	3150	10	4/27/2009
Naphthalene	7180	3150	10	4/27/2009
2-Nitroaniline	BQL	3150	10	4/27/2009
3-Nitroaniline	BQL	15700	10	4/27/2009
4-Nitroaniline	BQL	15700	10	4/27/2009
Nitrobenzene	BQL	3150	10	4/27/2009
2-Nitrophenol	BQL	3150	10	4/27/2009
4-Nitrophenol	BQL	15700	10	4/27/2009
Diphenylamine *	BQL	3150	10	4/27/2009
Pentachlorophenol	BQL	15700	10	4/27/2009
Phenanthrene	BQL	3150	10	4/27/2009
Phenol	BQL	3150	10	4/27/2009
Pyrene	BQL	3150	10	4/27/2009
1,2,4-Trichlorobenzene	BQL	3150	10	4/27/2009
2,4,5-Trichlorophenol	BQL	3150	10	4/27/2009
2,4,6-Trichlorophenol	BQL	3150	10	4/27/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1	NA	NA
2-Fluorophenol	1	NA	NA
Nitrobenzene-d5	1	NA	NA
Phenol-d6	1	NA	NA
2,4,6-Tribromophenol	1	NA	NA
4-Terphenyl-d14	1	NA	NA

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: CD

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-002-E-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-2J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 35.25 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:15
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 87.32

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	3250	10	4/27/2009
Acenaphthylene	BQL	3250	10	4/27/2009
Anthracene	BQL	3250	10	4/27/2009
Benzo[a]anthracene	BQL	3250	10	4/27/2009
Benzo[a]pyrene	BQL	3250	10	4/27/2009
Benzo[b]fluoranthene	BQL	3250	10	4/27/2009
Benzo[g,h,i]perylene	BQL	3250	10	4/27/2009
Benzo[k]fluoranthene	BQL	3250	10	4/27/2009
Benzoic Acid	BQL	16200	10	4/27/2009
Bis(2-chloroethoxy)methane	BQL	3250	10	4/27/2009
Bis(2-chloroethyl)ether	BQL	3250	10	4/27/2009
Bis(2-chloroisopropyl)ether	BQL	3250	10	4/27/2009
Bis(2-ethylhexyl)phthalate	BQL	3250	10	4/27/2009
4-bromophenyl phenyl ether	BQL	3250	10	4/27/2009
Butylbenzylphthalate	BQL	3250	10	4/27/2009
2-Chloronaphthalene	BQL	3250	10	4/27/2009
2-Chlorophenol	BQL	3250	10	4/27/2009
4-Chloro-3-methylphenol	BQL	3250	10	4/27/2009
4-Chloroaniline	BQL	16200	10	4/27/2009
4-Chlorophenyl phenyl ether	BQL	3250	10	4/27/2009
Chrysene	BQL	3250	10	4/27/2009
Dibenzo[a,h]anthracene	BQL	3250	10	4/27/2009
Dibenzofuran	BQL	3250	10	4/27/2009
Di-n-Butylphthalate	BQL	3250	10	4/27/2009
1,2-Dichlorobenzene	BQL	3250	10	4/27/2009
1,3-Dichlorobenzene	BQL	3250	10	4/27/2009
1,4-Dichlorobenzene	BQL	3250	10	4/27/2009
3,3'-Dichlorobenzidine	BQL	6500	10	4/27/2009
2,4-Dichlorophenol	BQL	3250	10	4/27/2009
Diethylphthalate	BQL	3250	10	4/27/2009
Dimethylphthalate	BQL	3250	10	4/27/2009
2,4-Dimethylphenol	BQL	3250	10	4/27/2009
Di-n-octylphthalate	BQL	3250	10	4/27/2009
4,6-Dinitro-2-methylphenol	BQL	16200	10	4/27/2009
2,4-Dinitrophenol	BQL	16200	10	4/27/2009
2,4-Dinitrotoluene	BQL	3250	10	4/27/2009
2,6-Dinitrotoluene	BQL	3250	10	4/27/2009
Fluoranthene	BQL	3250	10	4/27/2009
Fluorene	BQL	3250	10	4/27/2009
Hexachlorobenzene	BQL	3250	10	4/27/2009
Hexachlorobutadiene	BQL	3250	10	4/27/2009
Hexachlorocyclopentadiene	BQL	6500	10	4/27/2009
Hexachloroethane	BQL	3250	10	4/27/2009
Indeno(1,2,3-c,d)pyrene	BQL	3250	10	4/27/2009
Isophorone	BQL	3250	10	4/27/2009
2-Methylnaphthalene	61900	3250	10	4/27/2009
2-Methylphenol	BQL	3250	10	4/27/2009

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-002-E-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-2J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 35.25 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:15
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 87.32

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
3- & 4-Methylphenol	BQL	3250	10	4/27/2009
Naphthalene	13400	3250	10	4/27/2009
2-Nitroaniline	BQL	3250	10	4/27/2009
3-Nitroaniline	BQL	16200	10	4/27/2009
4-Nitroaniline	BQL	16200	10	4/27/2009
Nitrobenzene	BQL	3250	10	4/27/2009
2-Nitrophenol	BQL	3250	10	4/27/2009
4-Nitrophenol	BQL	16200	10	4/27/2009
Diphenylamine *	BQL	3250	10	4/27/2009
Pentachlorophenol	BQL	16200	10	4/27/2009
Phenanthrene	BQL	3250	10	4/27/2009
Phenol	BQL	3250	10	4/27/2009
Pyrene	BQL	3250	10	4/27/2009
1,2,4-Trichlorobenzene	BQL	3250	10	4/27/2009
2,4,5-Trichlorophenol	BQL	3250	10	4/27/2009
2,4,6-Trichlorophenol	BQL	3250	10	4/27/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1	NA	NA
2-Fluorophenol	1	NA	NA
Nitrobenzene-d5	1	NA	NA
Phenol-d6	1	NA	NA
2,4,6-Tribromophenol	1	NA	NA
4-Terphenyl-d14	1	NA	NA

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits

J = Detected below the quantitation limit.

Reviewed By: 

SGS Environmental Services, Inc.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: AS4146-003-N-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-3J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 33.8 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:30
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 78.24

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	378	1	4/17/2009
Acenaphthylene	BQL	378	1	4/17/2009
Anthracene	BQL	378	1	4/17/2009
Benzo[a]anthracene	BQL	378	1	4/17/2009
Benzo[a]pyrene	BQL	378	1	4/17/2009
Benzo[b]fluoranthene	BQL	378	1	4/17/2009
Benzo[g,h,i]perylene	BQL	378	1	4/17/2009
Benzo[k]fluoranthene	BQL	378	1	4/17/2009
Benzoic Acid	BQL	1890	1	4/17/2009
Bis(2-chloroethoxy)methane	BQL	378	1	4/17/2009
Bis(2-chloroethyl)ether	BQL	378	1	4/17/2009
Bis(2-chloroisopropyl)ether	BQL	378	1	4/17/2009
Bis(2-ethylhexyl)phthalate	BQL	378	1	4/17/2009
4-bromophenyl phenyl ether	BQL	378	1	4/17/2009
Butylbenzylphthalate	BQL	378	1	4/17/2009
2-Chloronaphthalene	BQL	378	1	4/17/2009
2-Chlorophenol	BQL	378	1	4/17/2009
4-Chloro-3-methylphenol	BQL	378	1	4/17/2009
4-Chloroaniline	BQL	1890	1	4/17/2009
4-Chlorophenyl phenyl ether	BQL	378	1	4/17/2009
Chrysene	BQL	378	1	4/17/2009
Dibenzo[a,h]anthracene	BQL	378	1	4/17/2009
Dibenzofuran	BQL	378	1	4/17/2009
Di-n-Butylphthalate	BQL	378	1	4/17/2009
1,2-Dichlorobenzene	BQL	378	1	4/17/2009
1,3-Dichlorobenzene	BQL	378	1	4/17/2009
1,4-Dichlorobenzene	BQL	378	1	4/17/2009
3,3'-Dichlorobenzidine	BQL	756	1	4/17/2009
2,4-Dichlorophenol	BQL	378	1	4/17/2009
Diethylphthalate	BQL	378	1	4/17/2009
Dimethylphthalate	BQL	378	1	4/17/2009
2,4-Dimethylphenol	BQL	378	1	4/17/2009
Di-n-octylphthalate	BQL	378	1	4/17/2009
4,6-Dinitro-2-methylphenol	BQL	1890	1	4/17/2009
2,4-Dinitrophenol	BQL	1890	1	4/17/2009
2,4-Dinitrotoluene	BQL	378	1	4/17/2009
2,6-Dinitrotoluene	BQL	378	1	4/17/2009
Fluoranthene	BQL	378	1	4/17/2009
Fluorene	BQL	378	1	4/17/2009
Hexachlorobenzene	BQL	378	1	4/17/2009
Hexachlorobutadiene	BQL	378	1	4/17/2009
Hexachlorocyclopentadiene	BQL	756	1	4/17/2009
Hexachloroethane	BQL	378	1	4/17/2009
Indeno(1,2,3-c,d)pyrene	BQL	378	1	4/17/2009
Isophorone	BQL	378	1	4/17/2009
2-Methylnaphthalene	8380	378	1	4/17/2009
2-Methylphenol	BQL	378	1	4/17/2009

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-003-N-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-3J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 33.8 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:30
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 78.24

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
3- & 4-Methylphenol	BQL	378	1	4/17/2009
Naphthalene	2640	378	1	4/17/2009
2-Nitroaniline	BQL	378	1	4/17/2009
3-Nitroaniline	BQL	1890	1	4/17/2009
4-Nitroaniline	BQL	1890	1	4/17/2009
Nitrobenzene	BQL	378	1	4/17/2009
2-Nitrophenol	BQL	378	1	4/17/2009
4-Nitrophenol	BQL	1890	1	4/17/2009
Diphenylamine *	BQL	378	1	4/17/2009
Pentachlorophenol	BQL	1890	1	4/17/2009
Phenanthrene	BQL	378	1	4/17/2009
Phenol	BQL	378	1	4/17/2009
Pyrene	BQL	378	1	4/17/2009
1,2,4-Trichlorobenzene	BQL	378	1	4/17/2009
2,4,5-Trichlorophenol	BQL	378	1	4/17/2009
2,4,6-Trichlorophenol	BQL	378	1	4/17/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.1	61
2-Fluorophenol	10	12.5	125 #
Nitrobenzene-d5	10	17.8	178 #
Phenol-d6	10	11.3	113
2,4,6-Tribromophenol	10	11.4	114
4-Terphenyl-d14	10	9.1	91

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
 High surrogate failures confirmed by duplicate extraction.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-004-W-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-4J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 34.11 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:40
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 70.7

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	415	1	4/17/2009
Acenaphthylene	BQL	415	1	4/17/2009
Anthracene	BQL	415	1	4/17/2009
Benzo[a]anthracene	BQL	415	1	4/17/2009
Benzo[a]pyrene	BQL	415	1	4/17/2009
Benzo[b]fluoranthene	BQL	415	1	4/17/2009
Benzo[g,h,i]perylene	BQL	415	1	4/17/2009
Benzo[k]fluoranthene	BQL	415	1	4/17/2009
Benzoic Acid	BQL	2070	1	4/17/2009
Bis(2-chloroethoxy)methane	BQL	415	1	4/17/2009
Bis(2-chloroethyl)ether	BQL	415	1	4/17/2009
Bis(2-chloroisopropyl)ether	BQL	415	1	4/17/2009
Bis(2-ethylhexyl)phthalate	BQL	415	1	4/17/2009
4-bromophenyl phenyl ether	BQL	415	1	4/17/2009
Butylbenzylphthalate	BQL	415	1	4/17/2009
2-Chloronaphthalene	BQL	415	1	4/17/2009
2-Chlorophenol	BQL	415	1	4/17/2009
4-Chloro-3-methylphenol	BQL	415	1	4/17/2009
4-Chloroaniline	BQL	2070	1	4/17/2009
4-Chlorophenyl phenyl ether	BQL	415	1	4/17/2009
Chrysene	BQL	415	1	4/17/2009
Dibenzo[a,h]anthracene	BQL	415	1	4/17/2009
Dibenzofuran	BQL	415	1	4/17/2009
Di-n-Butylphthalate	BQL	415	1	4/17/2009
1,2-Dichlorobenzene	BQL	415	1	4/17/2009
1,3-Dichlorobenzene	BQL	415	1	4/17/2009
1,4-Dichlorobenzene	BQL	415	1	4/17/2009
3,3'-Dichlorobenzidine	BQL	829	1	4/17/2009
2,4-Dichlorophenol	BQL	415	1	4/17/2009
Diethylphthalate	BQL	415	1	4/17/2009
Dimethylphthalate	BQL	415	1	4/17/2009
2,4-Dimethylphenol	BQL	415	1	4/17/2009
Di-n-octylphthalate	BQL	415	1	4/17/2009
4,6-Dinitro-2-methylphenol	BQL	2070	1	4/17/2009
2,4-Dinitrophenol	BQL	2070	1	4/17/2009
2,4-Dinitrotoluene	BQL	415	1	4/17/2009
2,6-Dinitrotoluene	BQL	415	1	4/17/2009
Fluoranthene	BQL	415	1	4/17/2009
Fluorene	BQL	415	1	4/17/2009
Hexachlorobenzene	BQL	415	1	4/17/2009
Hexachlorobutadiene	BQL	415	1	4/17/2009
Hexachlorocyclopentadiene	BQL	829	1	4/17/2009
Hexachloroethane	BQL	415	1	4/17/2009
Indeno(1,2,3-c,d)pyrene	BQL	415	1	4/17/2009
Isophorone	BQL	415	1	4/17/2009
2-Methylnaphthalene	1280	415	1	4/17/2009
2-Methylphenol	BQL	415	1	4/17/2009

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-004-W-Sidewall
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-4J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 34.11 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:40
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 70.7

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
3- & 4-Methylphenol	BQL	415	1	4/17/2009
Naphthalene	BQL	415	1	4/17/2009
2-Nitroaniline	BQL	415	1	4/17/2009
3-Nitroaniline	BQL	2070	1	4/17/2009
4-Nitroaniline	BQL	2070	1	4/17/2009
Nitrobenzene	BQL	415	1	4/17/2009
2-Nitrophenol	BQL	415	1	4/17/2009
4-Nitrophenol	BQL	2070	1	4/17/2009
Diphenylamine *	BQL	415	1	4/17/2009
Pentachlorophenol	BQL	2070	1	4/17/2009
Phenanthrene	BQL	415	1	4/17/2009
Phenol	BQL	415	1	4/17/2009
Pyrene	BQL	415	1	4/17/2009
1,2,4-Trichlorobenzene	BQL	415	1	4/17/2009
2,4,5-Trichlorophenol	BQL	415	1	4/17/2009
2,4,6-Trichlorophenol	BQL	415	1	4/17/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	10.8	108
Nitrobenzene-d5	10	16.9	169 #
Phenol-d6	10	10.6	106
2,4,6-Tribromophenol	10	11.5	115
4-Terphenyl-d14	10	9.2	92

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
 High surrogate failure confirmed by duplicate extraction.

Flags:

BQL = Below Quantitation Limits.
 J = Detected below the quantitation limit.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-005-Floor
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-5J
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 34 g

Analyzed By: DCS
 Date Collected: 4/8/2009 2:50
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 84.31

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	3490	10	4/27/2009
Acenaphthylene	BQL	3490	10	4/27/2009
Anthracene	BQL	3490	10	4/27/2009
Benzo[a]anthracene	BQL	3490	10	4/27/2009
Benzo[a]pyrene	BQL	3490	10	4/27/2009
Benzo[b]fluoranthene	BQL	3490	10	4/27/2009
Benzo[g,h,i]perylene	BQL	3490	10	4/27/2009
Benzo[k]fluoranthene	BQL	3490	10	4/27/2009
Benzoic Acid	BQL	17400	10	4/27/2009
Bis(2-chloroethoxy)methane	BQL	3490	10	4/27/2009
Bis(2-chloroethyl)ether	BQL	3490	10	4/27/2009
Bis(2-chloroisopropyl)ether	BQL	3490	10	4/27/2009
Bis(2-ethylhexyl)phthalate	BQL	3490	10	4/27/2009
4-bromophenyl phenyl ether	BQL	3490	10	4/27/2009
Butylbenzylphthalate	BQL	3490	10	4/27/2009
2-Chloronaphthalene	BQL	3490	10	4/27/2009
2-Chlorophenol	BQL	3490	10	4/27/2009
4-Chloro-3-methylphenol	BQL	3490	10	4/27/2009
4-Chloroaniline	BQL	17400	10	4/27/2009
4-Chlorophenyl phenyl ether	BQL	3490	10	4/27/2009
Chrysene	BQL	3490	10	4/27/2009
Dibenzo[a,h]anthracene	BQL	3490	10	4/27/2009
Dibenzofuran	BQL	3490	10	4/27/2009
Di-n-Butylphthalate	BQL	3490	10	4/27/2009
1,2-Dichlorobenzene	BQL	3490	10	4/27/2009
1,3-Dichlorobenzene	BQL	3490	10	4/27/2009
1,4-Dichlorobenzene	BQL	3490	10	4/27/2009
3,3'-Dichlorobenzidine	BQL	6980	10	4/27/2009
2,4-Dichlorophenol	BQL	3490	10	4/27/2009
Diethylphthalate	BQL	3490	10	4/27/2009
Dimethylphthalate	BQL	3490	10	4/27/2009
2,4-Dimethylphenol	BQL	3490	10	4/27/2009
Di-n-octylphthalate	BQL	3490	10	4/27/2009
4,6-Dinitro-2-methylphenol	BQL	17400	10	4/27/2009
2,4-Dinitrophenol	BQL	17400	10	4/27/2009
2,4-Dinitrotoluene	BQL	3490	10	4/27/2009
2,6-Dinitrotoluene	BQL	3490	10	4/27/2009
Fluoranthene	BQL	3490	10	4/27/2009
Fluorene	BQL	3490	10	4/27/2009
Hexachlorobenzene	BQL	3490	10	4/27/2009
Hexachlorobutadiene	BQL	3490	10	4/27/2009
Hexachlorocyclopentadiene	BQL	6980	10	4/27/2009
Hexachloroethane	BQL	3490	10	4/27/2009
Indeno(1,2,3-c,d)pyrene	BQL	3490	10	4/27/2009
Isophorone	BQL	3490	10	4/27/2009
2-Methylnaphthalene	107000	3490	10	4/27/2009
2-Methylphenol	BQL	3490	10	4/27/2009

E

SGS Environmental Services, Inc.

Results for Semivolatiles by GCMS 8270

Client Sample ID: AS4146-005-Floor
Client Project ID: Baker MCAS 4146
Lab Sample ID: G894-145-5J
Lab Project ID: G894-145
Report Basis: Dry weight
Initial Weight: 34 g

Analyzed By: DCS
Date Collected: 4/8/2009 2:50
Date Received: 4/9/2009
Date Extracted: 4/14/2009
Matrix: Soil
% Solids: 84.31

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
3- & 4-Methylphenol	BQL	3490	10	4/27/2009
Naphthalene	41000	3490	10	4/27/2009
2-Nitroaniline	BQL	3490	10	4/27/2009
3-Nitroaniline	BQL	17400	10	4/27/2009
4-Nitroaniline	BQL	17400	10	4/27/2009
Nitrobenzene	BQL	3490	10	4/27/2009
2-Nitrophenol	BQL	3490	10	4/27/2009
4-Nitrophenol	BQL	17400	10	4/27/2009
Diphenylamine *	BQL	3490	10	4/27/2009
Pentachlorophenol	BQL	17400	10	4/27/2009
Phenanthrene	BQL	3490	10	4/27/2009
Phenol	BQL	3490	10	4/27/2009
Pyrene	BQL	3490	10	4/27/2009
1,2,4-Trichlorobenzene	BQL	3490	10	4/27/2009
2,4,5-Trichlorophenol	BQL	3490	10	4/27/2009
2,4,6-Trichlorophenol	BQL	3490	10	4/27/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1	NA	NA
2-Fluorophenol	1	NA	NA
Nitrobenzene-d5	1	NA	NA
Phenol-d6	1	NA	NA
2,4,6-Tribromophenol	1	NA	NA
4-Terphenyl-d14	1	NA	NA

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-006-Under Leak
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-6L
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 34.63 g

Analyzed By: DCS
 Date Collected: 4/8/2009 3:00
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 81.27

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	7110	20	4/27/2009
Acenaphthylene	BQL	7110	20	4/27/2009
Anthracene	BQL	7110	20	4/27/2009
Benzo[a]anthracene	BQL	7110	20	4/27/2009
Benzo[a]pyrene	BQL	7110	20	4/27/2009
Benzo[b]fluoranthene	BQL	7110	20	4/27/2009
Benzo[g,h,i]perylene	BQL	7110	20	4/27/2009
Benzo[k]fluoranthene	BQL	7110	20	4/27/2009
Benzoic Acid	BQL	35500	20	4/27/2009
Bis(2-chloroethoxy)methane	BQL	7110	20	4/27/2009
Bis(2-chloroethyl)ether	BQL	7110	20	4/27/2009
Bis(2-chloroisopropyl)ether	BQL	7110	20	4/27/2009
Bis(2-ethylhexyl)phthalate	BQL	7110	20	4/27/2009
4-bromophenyl phenyl ether	BQL	7110	20	4/27/2009
Butylbenzylphthalate	BQL	7110	20	4/27/2009
2-Chloronaphthalene	BQL	7110	20	4/27/2009
2-Chlorophenol	BQL	7110	20	4/27/2009
4-Chloro-3-methylphenol	BQL	7110	20	4/27/2009
4-Chloroaniline	BQL	35500	20	4/27/2009
4-Chlorophenyl phenyl ether	BQL	7110	20	4/27/2009
Chrysene	BQL	7110	20	4/27/2009
Dibenzo[a,h]anthracene	BQL	7110	20	4/27/2009
Dibenzofuran	BQL	7110	20	4/27/2009
Di-n-Butylphthalate	BQL	7110	20	4/27/2009
1,2-Dichlorobenzene	BQL	7110	20	4/27/2009
1,3-Dichlorobenzene	BQL	7110	20	4/27/2009
1,4-Dichlorobenzene	BQL	7110	20	4/27/2009
3,3'-Dichlorobenzidine	BQL	14200	20	4/27/2009
2,4-Dichlorophenol	BQL	7110	20	4/27/2009
Diethylphthalate	BQL	7110	20	4/27/2009
Dimethylphthalate	BQL	7110	20	4/27/2009
2,4-Dimethylphenol	BQL	7110	20	4/27/2009
Di-n-octylphthalate	BQL	7110	20	4/27/2009
4,6-Dinitro-2-methylphenol	BQL	35500	20	4/27/2009
2,4-Dinitrophenol	BQL	35500	20	4/27/2009
2,4-Dinitrotoluene	BQL	7110	20	4/27/2009
2,6-Dinitrotoluene	BQL	7110	20	4/27/2009
Fluoranthene	BQL	7110	20	4/27/2009
Fluorene	BQL	7110	20	4/27/2009
Hexachlorobenzene	BQL	7110	20	4/27/2009
Hexachlorobutadiene	BQL	7110	20	4/27/2009
Hexachlorocyclopentadiene	BQL	14200	20	4/27/2009
Hexachloroethane	BQL	7110	20	4/27/2009
Indeno(1,2,3-c,d)pyrene	BQL	7110	20	4/27/2009
Isophorone	BQL	7110	20	4/27/2009
2-Methylnaphthalene	50400	7110	20	4/27/2009
2-Methylphenol	BQL	7110	20	4/27/2009

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: AS4146-006-Under Leak
 Client Project ID: Baker MCAS 4146
 Lab Sample ID: G894-145-6L
 Lab Project ID: G894-145
 Report Basis: Dry weight
 Initial Weight: 34.63 g

Analyzed By: DCS
 Date Collected: 4/8/2009 3:00
 Date Received: 4/9/2009
 Date Extracted: 4/14/2009
 Matrix: Soil
 % Solids: 81.27

Compound	Result ug/Kg	RL ug/Kg	Dilution Factor	Date Analyzed
3- & 4-Methylphenol	BQL	7110	20	4/27/2009
Naphthalene	19200	7110	20	4/27/2009
2-Nitroaniline	BQL	7110	20	4/27/2009
3-Nitroaniline	BQL	35500	20	4/27/2009
4-Nitroaniline	BQL	35500	20	4/27/2009
Nitrobenzene	BQL	7110	20	4/27/2009
2-Nitrophenol	BQL	7110	20	4/27/2009
4-Nitrophenol	BQL	35500	20	4/27/2009
Diphenylamine *	BQL	7110	20	4/27/2009
Pentachlorophenol	BQL	35500	20	4/27/2009
Phenanthrene	BQL	7110	20	4/27/2009
Phenol	BQL	7110	20	4/27/2009
Pyrene	BQL	7110	20	4/27/2009
1,2,4-Trichlorobenzene	BQL	7110	20	4/27/2009
2,4,5-Trichlorophenol	BQL	7110	20	4/27/2009
2,4,6-Trichlorophenol	BQL	7110	20	4/27/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	0.5	NA	NA
2-Fluorophenol	0.5	NA	NA
Nitrobenzene-d5	0.5	NA	NA
Phenol-d6	0.5	NA	NA
2,4,6-Tribromophenol	0.5	NA	NA
4-Terphenyl-d14	0.5	NA	NA

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide

- Alaska
- Ohio
- New Jersey
- West Virginia
- Hawaii
- Maryland
- North Carolina

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077752

1

CLIENT: MEC Corporation

CONTACT: Randy Smith PHONE NO: (910) 389-2365

PROJECT: Baker MCAS 4146 SITE/PWSID#:

REPORTS TO: MEC Corp. E-MAIL: RSmith@MECCorporation.com

INVOICE TO: MEC Corp. QUOTE #

P.O. NUMBER

SGS Reference: 6894-145

PAGE 1 OF 1

2

LAB NO.

SAMPLE IDENTIFICATION

DATE

TIME

MATRIX

CONTAINERS

Preservatives Used

Analysis Required

C=COMP

G=GRAB

REMARKS

	AS4146-001-S-Side Wall	4/8/09	2:00AM	Soil	8	G	X	X	X	X									
	AS4146-002-E-Side Wall	4/8/09	2:15AM	Soil	8	G	X	X	X	X									
	AS4146-003-N-Side Wall	4/8/09	2:30AM	Soil	8	G	X	X	X	X									
	AS4146-004-W-Side Wall	4/8/09	2:40AM	Soil	8	G	X	X	X	X									
	AS4146-005-Floor	4/8/09	2:50AM	Soil	8	G	X	X	X	X									
	AS4146-006-Under Leach	4/8/09	3:00AM	Soil	8	G	X	X	X	X									

5

Collected/Relinquished By: (1)

Date

Time

Received By:

Date

Time

Shipping Carrier:

Samples Received Cold? (Circle) YES NO

Relinquished By: (2)

Date

Time

Received By:

Date

Time

Shipping Ticket No:

Temperature [C: 4.0 F:

Relinquished By: (3)

Date

Time

Received By:

Date

Time

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Relinquished By: (4)

Date

Time

Received By:

Date

Time

Special Instructions:

Requested Turnaround Time:

RUSH

STD

Baker

Michael Baker Jr., Inc.

APPENDIX E

Photograph Log

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: New River MCAS, Building AS 4146/Probe 49 Investigation Area

PHOTOGRAPH

1

DATE

4/6/2009

PHOTOGRAPHS
BY

Baker



Comments: Probe 49 and 50 area prior to excavation.

PHOTOGRAPH

2

DATE

11/17/2008

PHOTOGRAPHS
BY

Baker



Comments: Site location prior to excavation.

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: New River MCAS, Building AS 4146/Probe 49 Investigation Area

PHOTOGRAPH

3

DATE

11/18/2008

PHOTOGRAPHS
BY

Baker



Comments: Excavation trench with JP-5 pipeline (leaking) and sanitary sewer pipeline.

PHOTOGRAPH

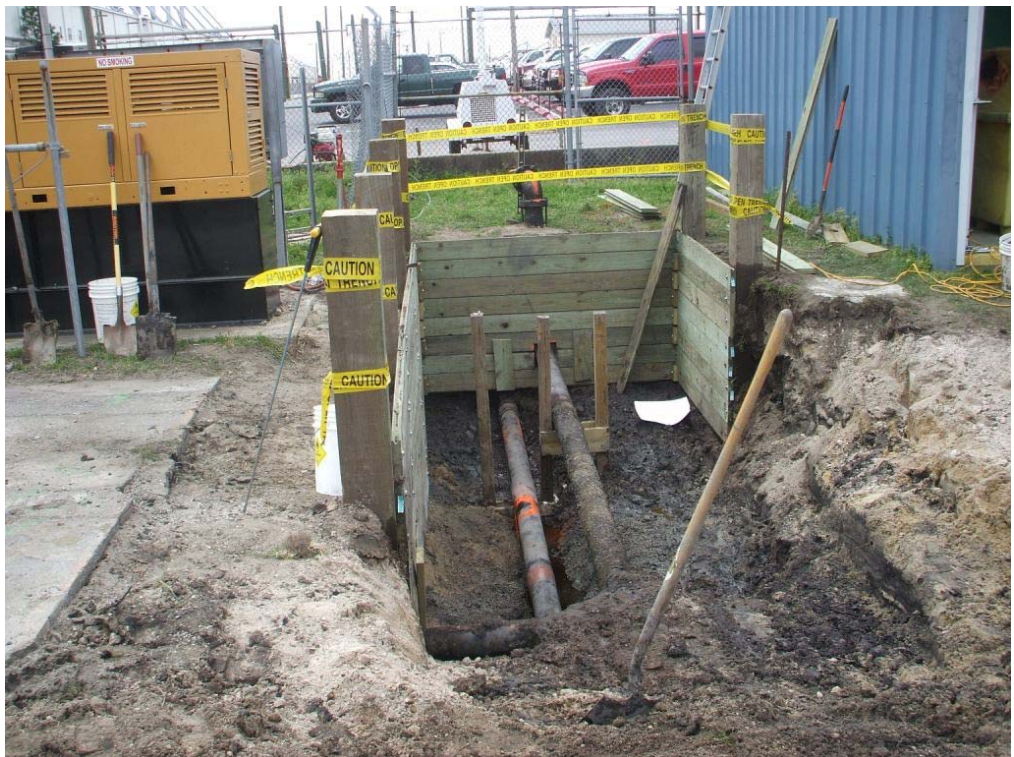
4

DATE

11/18/2008

PHOTOGRAPHS
BY

Baker



Comments: Shoring around perimeter of excavation.

*Analytical and Fingerprint Analysis of Storm Drain
Free Product*



Shaun Whitworth
Osage of Virginia
2618 A Colley Ave
Norfolk, VA 23517

Report Number: G649-103

Client Project: CTO 005

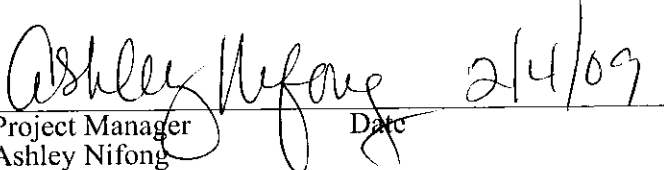
Dear Shaun Whitworth,

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS Environmental Services at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.


Project Manager Date
Ashley Nifong

CASE NARRATIVE-FINGERPRINT

Osage of Virginia

Project: CTO 005

SGS Laboratory Number: G649-103

DATE: February 4, 2009

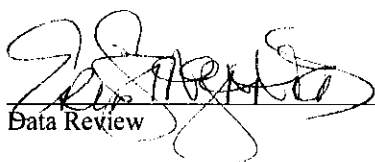
SAMPLE RECEIPT OBSERVATIONS:

One product sample was received at the laboratory on February 2, 2009 at 1800 for analysis of TPH-DRO and GRO by method 8015. The sample arrived in good condition, within temperature and holding time limits.

All extractions and analyses were completed within holding time and without quality control exception.

The sample produced a TPH detection in both the diesel and gasoline range. Applicable chromatographic similarities to known standard patterns are noted below. The following observations were made and can be used as a general guide, additional testing may be required for a definitive characterization of the contamination.

<u>SAMPLE ID</u>	<u>APPEARANCE OF CONTAMINATION</u>
Storm Drain G649-103-1 DRO Observation	Although the detection falls within the DRO range, the pattern seen in this sample does not resemble DRO. The detection found in this range displays a more concise response and elutes at a much earlier retention time than a typical DRO standard. The pattern more closely resembles a JP-5 standard, which has been included in the report.
Storm Drain G649-103-1 GRO Observation	The pattern seen in this sample does not resemble GRO. The detection found in this range is most likely attributable to the low distillate range for a heavier fuel; this is commonly seen in samples with a high concentration of diesel range organics.


Data Review

Date 04 FEB 09

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: Storm Drain
Client Project ID: CTO 005
Lab Sample ID: G649-103-1B
Lab Project ID: G649-103

Date Collected: 2/2/2009 15:30
Date Received: 2/2/2009
Matrix: Product
Solids 100.00
Report Basis: Dry Weight

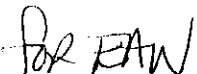
Parameter	Result	RL	Units	Dilution Factor	Date Analyzed
Diesel Range Organics	1310000	96200	mg/Kg	500	02/03/09 15:15

Surrogate Spike Results	Spike Added	Control Limits	Spike Result	Percent Recovery
OTP	40	40-140	NA	NA

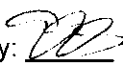
Comments:**Batch Information**

Analytical Batch: EP020309
Analytical Method: 8015
Instrument: GC6
Analyst: DTF

Prep batch: 13584
Prep Method: 3580
Prep Date: 02/03/09
Initial Prep Wt/Vol: 1.04 G
Prep Final Vol: 10 mL

Analyst: 

NC Certification #481

Reviewed By: 

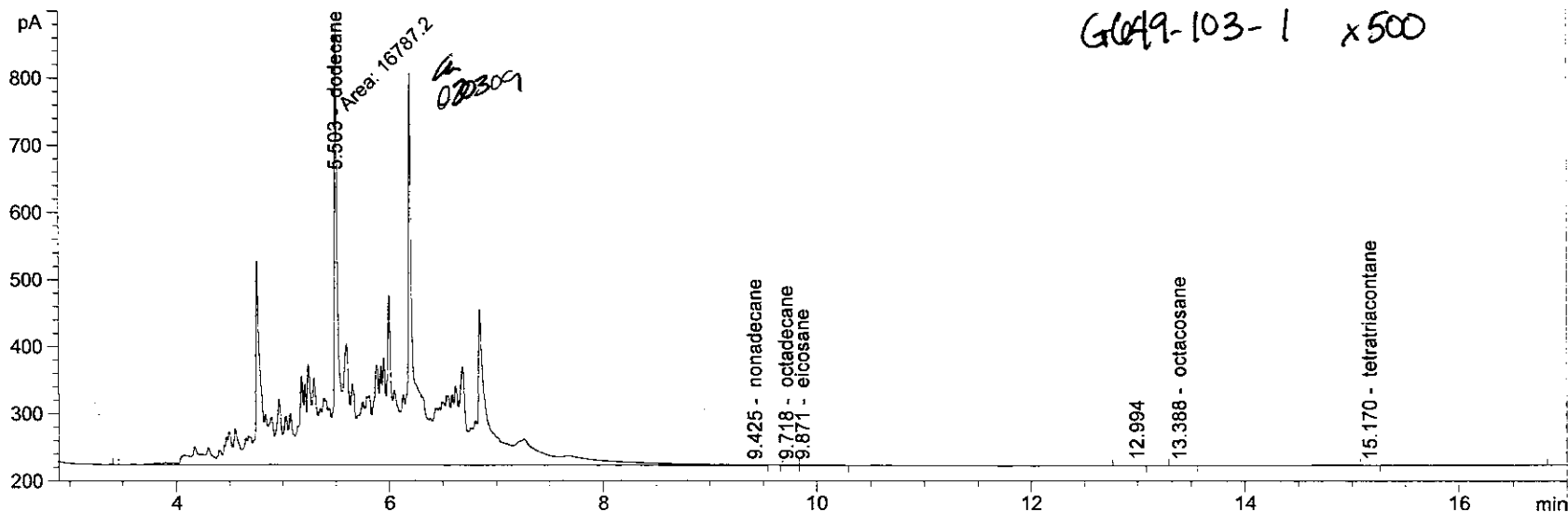
DRO

DRO ANALYSIS

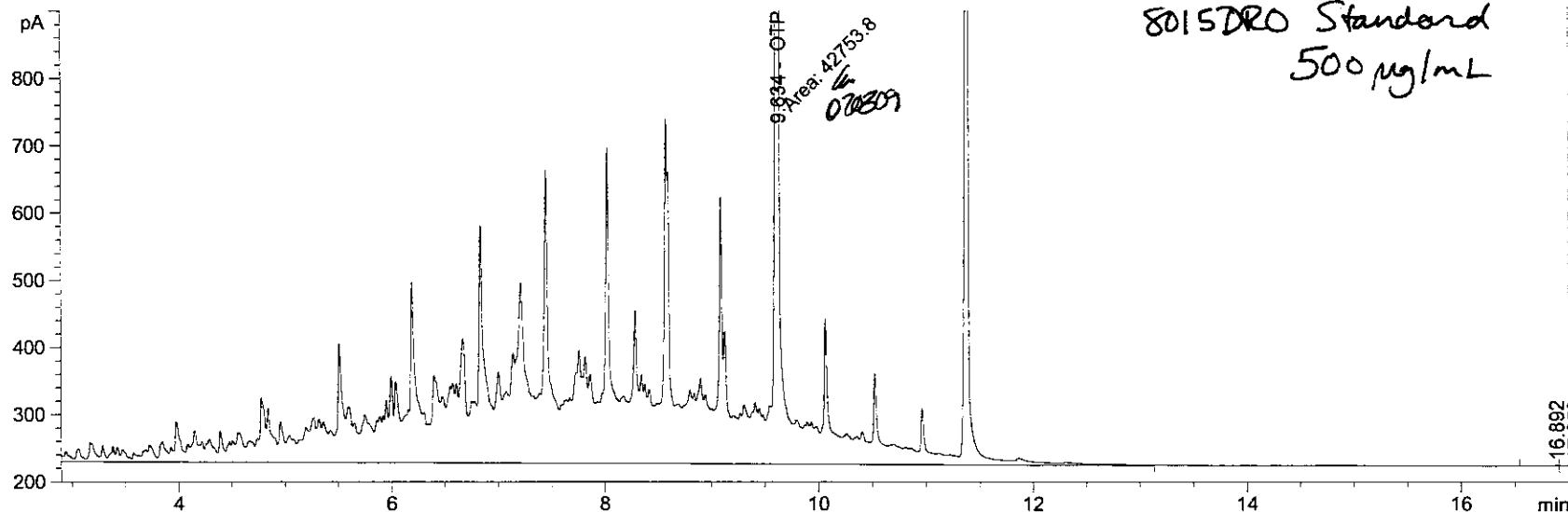
Injection Date : 2/3/2009 3:15:06 PM Seq. Line : 2
 Sample Name : G649-103-1 x500 Location : Vial 57
 Acq. Operator : DTF Inj : 1
 Acq. Instrument : GC6 Inj Volume : 10 µl
 Acq. Method : C:\HPCHEM\1\METHODS\DCSEPHB.M
 Last changed : 10/31/2008 9:50:11 AM by EAW
 Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_R.M
 Last changed : 2/2/2009 11:49:12 AM by EAW
 TPH

Current Chromatogram(s)

FID2 B, (EP020309\057B0201.D)



FID2 B, (EP020309\055B0201.D)

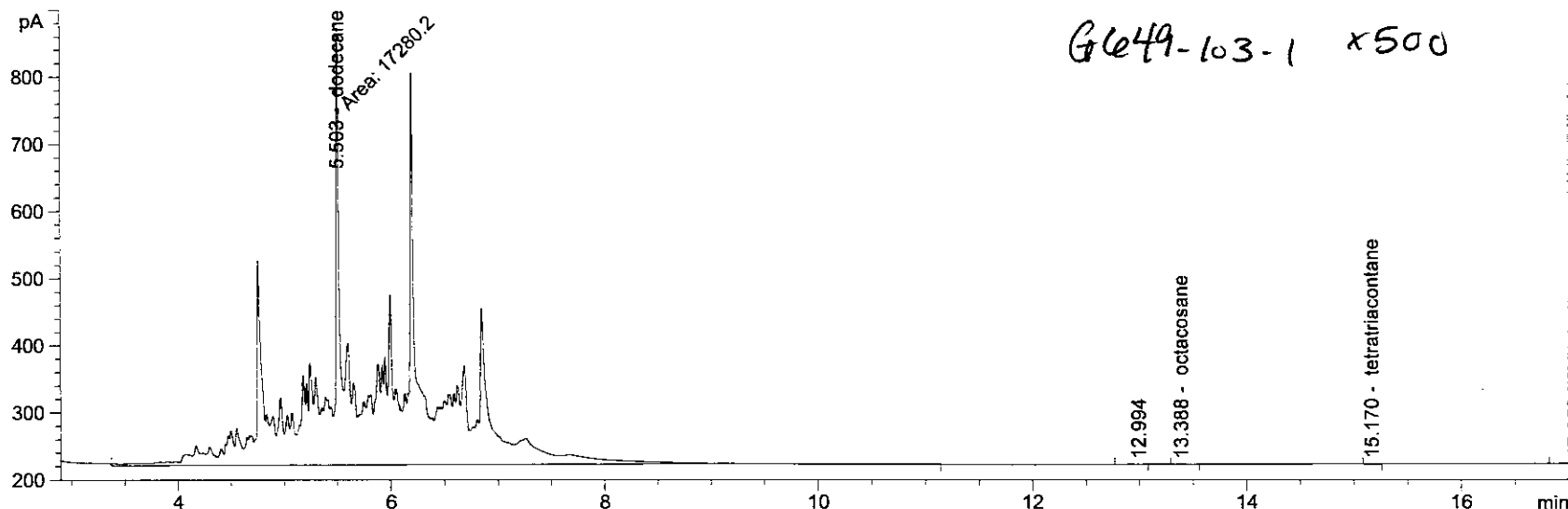


DRO Analysis

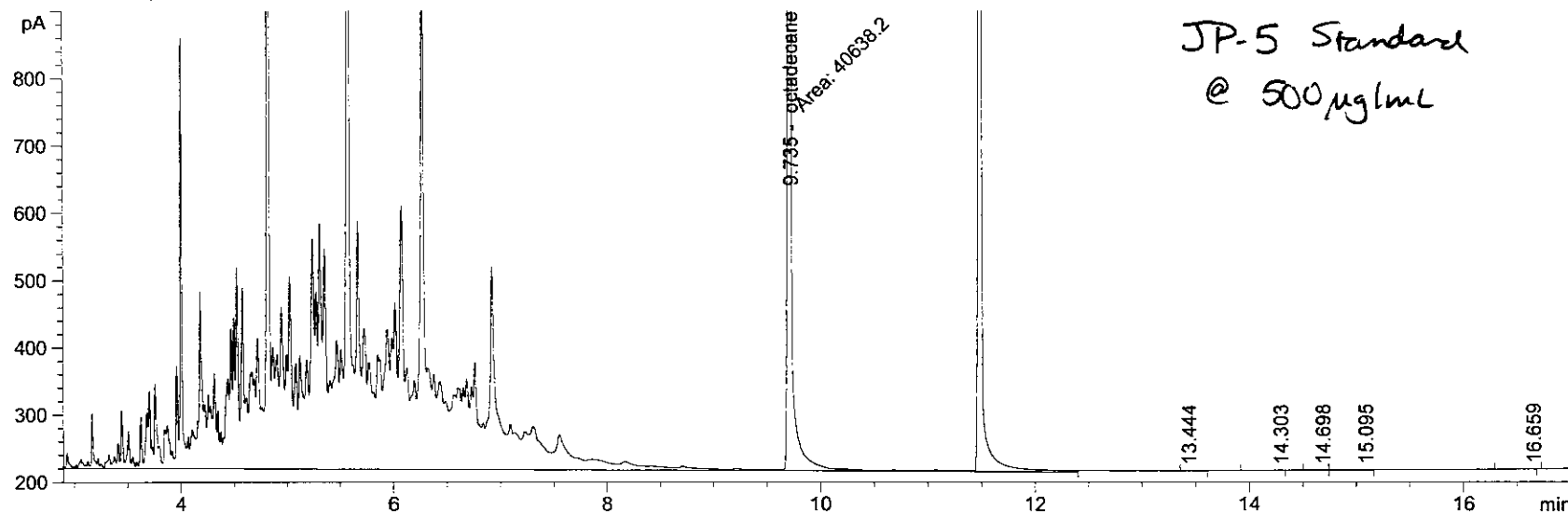
Injection Date : 2/3/2009 3:15:06 PM Seq. Line : 2
 Sample Name : G649-103-1 x500 Location : Vial 57
 Acq. Operator : DTF Inj : 1
 Acq. Instrument : GC6 Inj Volume : 10 µl
 Acq. Method : C:\HPCHEM\1\METHODS\DCSEPHB.M
 Last changed : 10/31/2008 9:50:11 AM by EAW
 Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_R.M
 Last changed : 2/4/2009 9:55:42 AM by EAW
 TPH

Current Chromatogram(s)

FID2 B, (EP020309\057B0201.D)



FID2 B, (C:\HPCHEM\1\DATA2007\EP071007\069B1702.D)



Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: Storm Drain
Client Project ID: CTO 005
Lab Sample ID: G649-103-1A
Lab Project ID: G649-103
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 2/2/2009 15:30
Date Received: 2/2/2009
Matrix: Product
Solids 100.00

Analyte	Result	RL	Units	Dilution Factor	Date Analyzed
Gasoline Range Organics	30.7	12.8	mg/Kg	50	02/03/09 15:25

Surrogate Spike Results

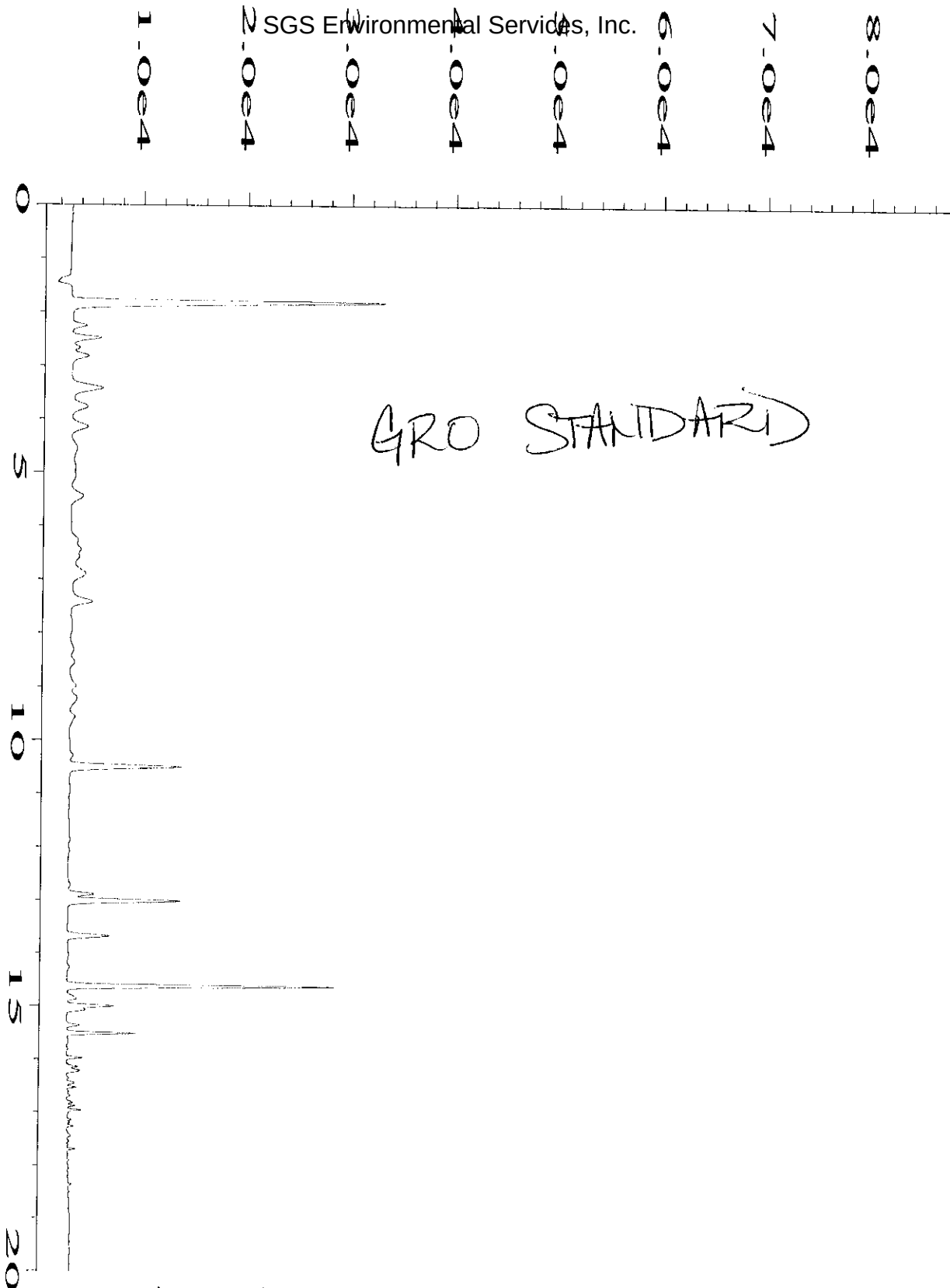
	Added	Result	Recovery	Flag	Limits
BFB	100	111	111		70-130

Comments:**Batch Information**

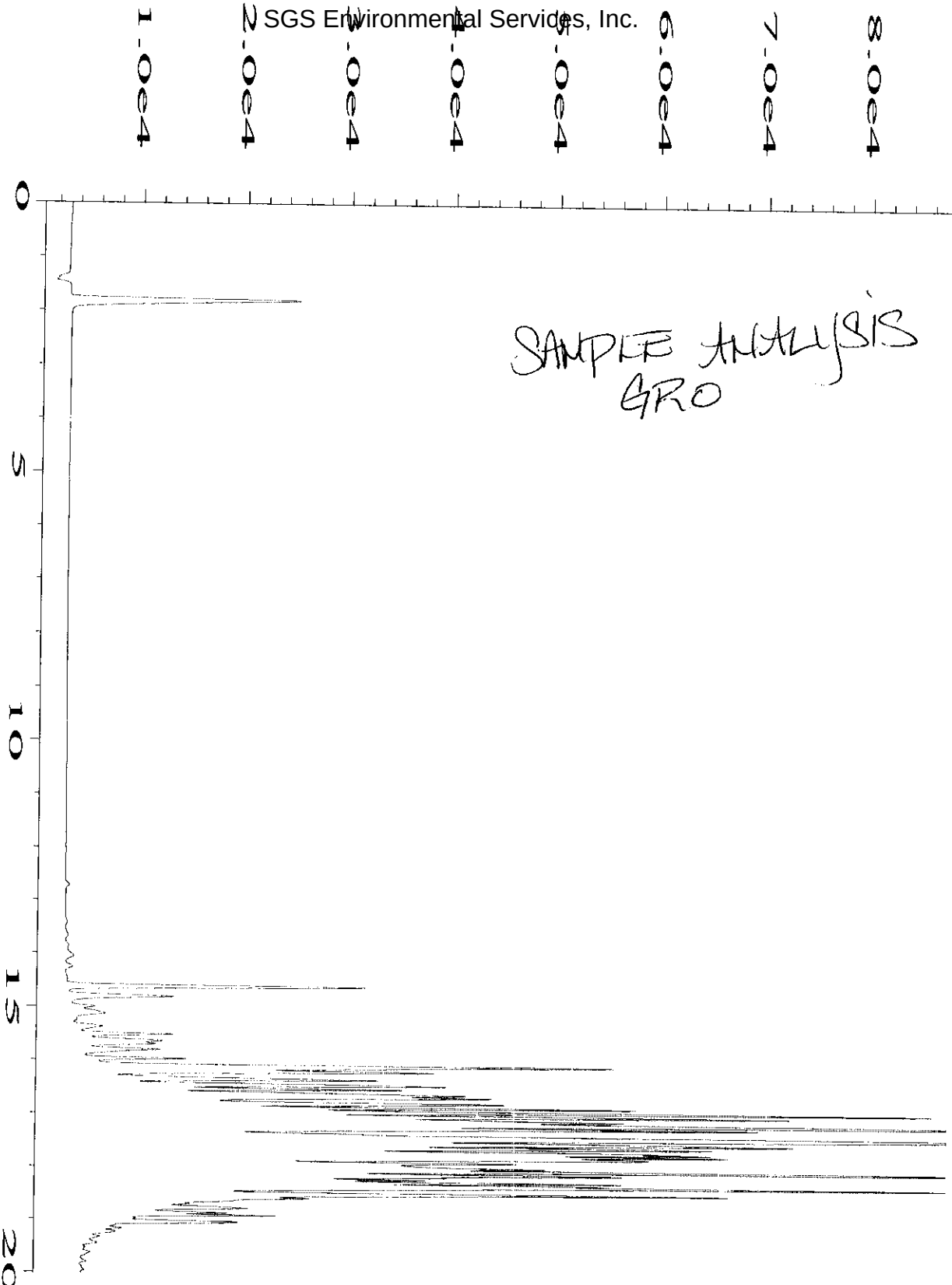
Analytical Batch: VP020309
Analytical Method: 8015
Instrument ID: GC4
Analyst: DVG

Prep Method: 5030
Initial Wt/Vol: 0.98 g
Final Volume: 5 mL

Analyst: DVG



Data File Name	: C:\HPCHEM\1\DATA\VP020309\004F0101.D	Page Number	: 1
Operator	: DVG	Vial Number	: 4
Instrument	: GC4	Injection Number	: 1
Sample Name	: g200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: GAS2.MTH
Acquired on	: 03 Feb 09 09:40 AM	Analysis Method	: VPH_FID2.MTH
Report Created on:	04 Feb 09 08:28 AM	Sample Amount	: 0
Last Recalib on	: 30 JAN 09 09:01 AM	ISTD Amount	:
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\VP020309\017F0101.D	Page Number	: 1
Operator	: DVG	Vial Number	: 17
Instrument	: GC4	Injection Number	: 1
Sample Name	: g649-103-1a x50	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: GAS2.MTH
Acquired on	: 03 Feb 09 03:25 PM	Analysis Method	: VPH_FID2.MTH
Report Created on:	04 Feb 09 08:28 AM	Sample Amount	: 0
Last Recalib on	: 30 JAN 09 09:01 AM	ISTD Amount	:
Multiplier	: 1		

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide

- Alaska
- Ohio
- New Jersey
- West Virginia
- Hawaii
- Maryland
- North Carolina

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090970

[illegible]

24-Hour Release and UST Leak Reporting Form (UST-61)

UST-61	24-Hour Release and UST Leak Reporting Form.
For Releases in NC	This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release
(DWM USE ONLY) Incident # _____ Risk (H,I,L,U) _____ Received On _____ Received By _____ Reported by (circle one): Phone, Fax or Report Region _____	Suspected Contamination? (Y/N) <u>Y</u> Confirmed GW Contamination? (Y/N) <u>N</u> Confirmed Soil Contamination? (Y/N) <u>N</u> Samples Taken?(Y/N) <u>N</u> Free Product? (Y/N) <u>N</u> If Yes, State Greatest Thickness _____
Facility ID Number <u>V-002740</u> Date Leak Discovered <u>31 January 09</u> Comm/Non-Commercial? <u>Comm</u> Reg/Non-regulated? _____	
INCIDENT DESCRIPTION	
Incident Name: MCAS New RiverWhite Street JP-5 suspect release	
Address: Bldg AS4141 White Street	County: Onslow
City/Town: Jacksonville	Zip Code: 28545
Regional Office (circle one): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem	
Latitude (decimal degrees): _____	Longitude (decimal degrees) : _____
Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors) On 30 January 2009 fuel was discovered in a drainage ditch along White Street and reported to NCDENR Wilmington Office. At this time the source was unknown. The JP-5 line was secured and leak detection equipment and tracer testing was scheduled. Background samples of probes were taken on March 2009 and the system was inoculated with a tracer element "A" the week of 9 through 13 March 2009. Inoculates were circulated throughout the system and samples were taken 26 and 27 March 2009. The results per phone conversation with baker Environmental on 3 April 2009 indicated a tracer hit at probe 49 which is located in the area of the suspect release in the JP-5 line. Repairs are scheduled to start Monday, 6 April 2009. A Initial Abatement Action report will be completed and sent to the Wilmington Regional Office.	
Obtained by: ☐ GPS ☐ Topographic map ☒ GIS Address matching ☐ Other ☐ Unknown Describe location:	
HOW RELEASE WAS DISCOVERED (Release Code)	
(Check one)	
☐ Release Detection Equipment or Methods ☐ During UST Closure/Removal ☐ Property Transfer	☐ Visual/Odor ☐ Water in Tank ☐ Water Supply Well Contamination
☐ Groundwater Contamination ☒ Surface Water Contamination ☐ Other (specify) _____	
SOURCE OF CONTAMINATION	
Source of Release (Check one to indicate primary source)	Cause of Release (Check one to indicate primary cause)
☐ Tank ☒ Piping ☐ Dispenser ☐ Submersible Turbine Pump ☐ Delivery Problem ☐ Other ☐ Unknown	☐ Spill ☐ Overfill ☐ Corrosion ☒ Physical or Mechanical Damage ☐ Install Problem ☐ Other ☐ Unknown
Type of Release (Check one)	Product Type Released (Check one to indicate primary product type released)
☒ Petroleum ☐ Non-Petroleum ☐ Both Location (Check one) ☒ Facility ☐ Residence ☐ Other	☒ Gasoline/ Diesel/ Kerosene <u>JP-8</u> ☐ Heating Oil ☐ Other Petroleum Products ☐ Metals ☐ Other Inorganics ☐ Other Organics ☐ Diesel/Veg. Oil Blend ☐ Vegetable Oil 100% ☐ E10 – E20 ☐ E21 – E84 ☐ E85 – E99 ☐ Ethanol 100% ☐ E01 – E09
Definitions presented on reverse	
Ownership 1. Municipal 2. <u>Military</u> 3. Unknown 4. Private 5. Federal 6. County 7. State	
Operation Type 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. <u>Industrial</u> 6. Commercial 7. Mining	

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes **2. No** 3. Unknown

Number of Water Supply Wells Affected _____

Water Supply Wells Contaminated: *(Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)*

- 1.
- 2.
- 3.

UST SYSTEM OWNER

UST Owner/Company
Commanding officer, Marine Corps Base

Point of Contact Bruce Markwick		Address Bldg 1 Holcumb Blvd	
City Camp lejeune	State NC	Zip Code 28542-0004	Telephone Number 910 451-9660

UST SYSTEM OPERATOR

UST Operator/Company MCASNR Operations		Address Bldg 148 White Street	
City Jacksonville	State NC	Zip Code 28545	Telephone Number 910 451-9660

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner USMC		Address Same as Owner	
City	State	Zip Code	Telephone Number

Draw Sketch of Area (showing two major road intersections) or Attach Map

Person Reporting Incident	Company I & E Department, EMD	Telephone Number 910 451-9660
Title Environmental Protection Specialist	Address Bldg 12, Camp lejeune, NC	Date 3 April 2009

UST Form 61 (02/08)

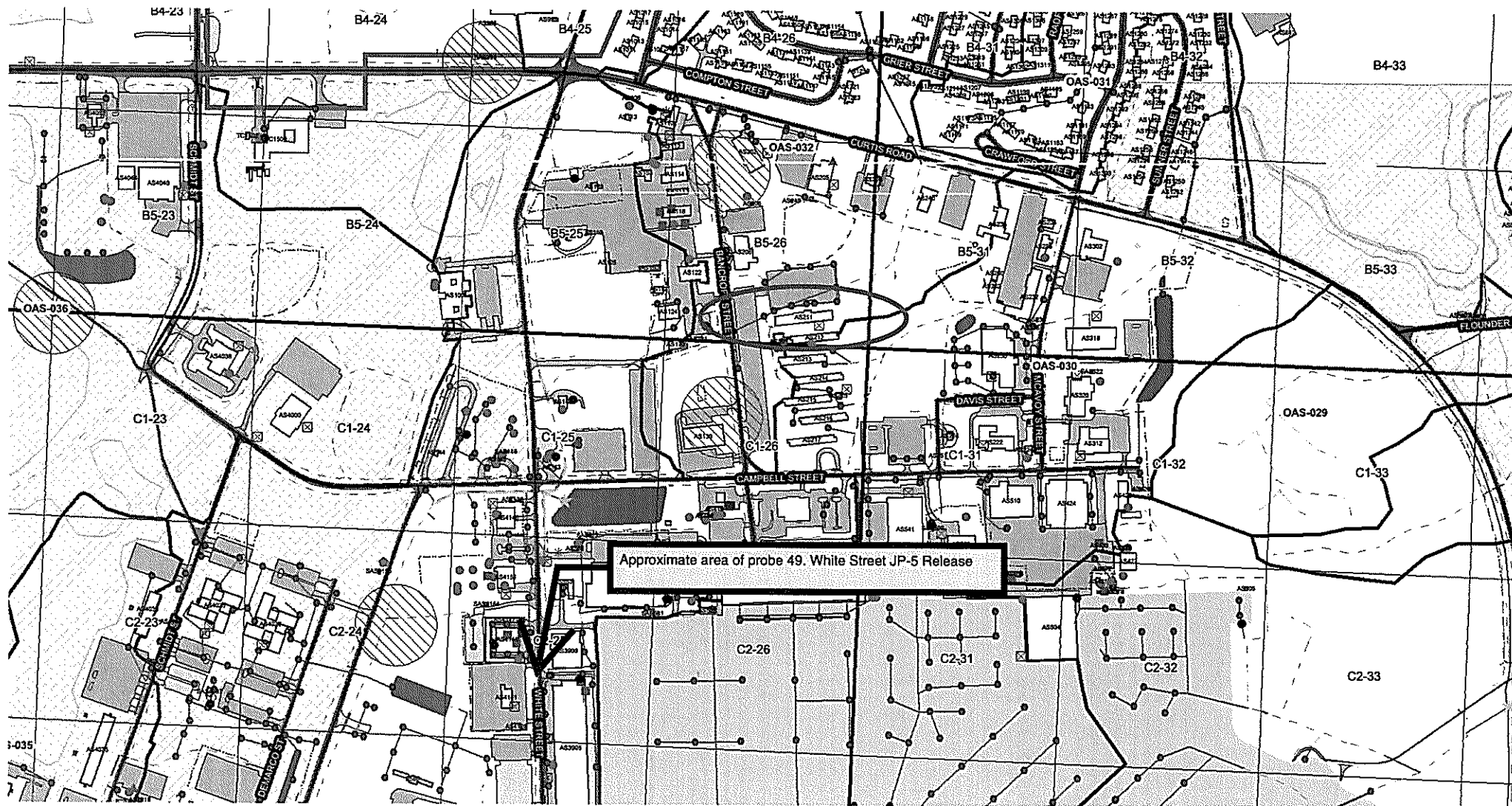
Page 2 of 2

Definitions of Sources

- Tank: means the tank that stores the product and is part of the underground storage tank system
- Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)
- Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)
- Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank
- Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)
- Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)
- Unknown: identifies releases for which the source has not been determined

Definitions of Causes

- Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)
- Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)
- Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)
- Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)
- Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly
- Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)
- Unknown: use when the cause has not been determined



Site Area Sketches



VICINITY MAP - CAMP LEJEUNE, N.C.



ASPHALT

ASPHALT

ASPHALT

EXCAVATED
PIT AREA
257 Sq. Feet

EXPOSED SEWER LINE

EXPOSED FUEL LINE

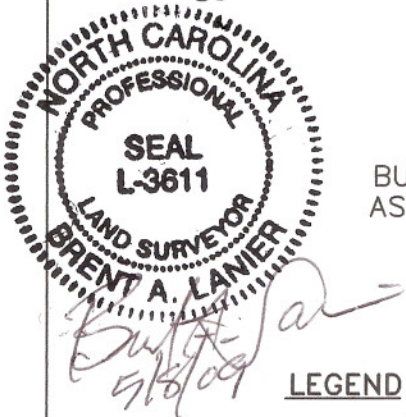
AS4147A
SEWER PUMP STATION
WITH GENERATOR

MONITORING
WELL

GRASS

CONCRETE

BUILDING
AS4147



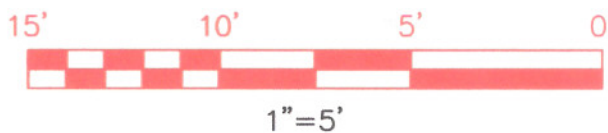
LEGEND

- EXPOSED SEWER LINE
- EXPOSED FUEL LINE
- × × × FENCE
- ⊕ MONITORING WELL

NOTE: NO ABOVE GROUND OR SUBSURFACE UTILITIES
WERE ATTEMPTED TO BE LOCATED EXCEPT
AS SHOWN

LANIER
SURVEYING COMPANY
SURVEYING-PLANNING-MAPPING
134 CEDAR POINT BLVD.
CEDAR POINT, N.C. 28384
PHONE (252) 393-4305

GRAPHIC SCALE



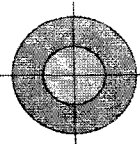
DATUM: North Carolina State Plane Zone 3200 NAD 83 (NSRS 2007) US Survey Feet

Safety Forms from MEC

Baker

Michael Baker Jr., Inc.
APPENDIX I.1

Supervisor Daily Form



MEC Corp.

Military Environmental & Construction Corp.

Supervisor Daily Form

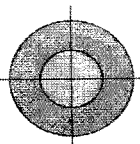
Date	Time	Work Performed
4-06-09	1300	PREP THE LOCATION
		SAFTY CONES
		WORK EQUIPMENT
	1900	DIG AND REMOVE DIRT
	2000	DRIVE PILONS
	2200	START PUTTING WALL BARRIER UP

MEC Employee	Start	Lunch	Leave Site	Site Location
JEREMY J.	1900	NO LUNCH	0000	AS-4146
CHANCEY B.	0700		0200	
DAVID B.	1900		0500	
TRAVIS C.	1900		0530	
PAUL F.	0700		0530	
KENNY G.	0700		0330	
BRIAN G.	0700		0000	
HAROLD H.	0700		1800	
JUDY H.	0700		0330	
WADE L.	1900		0000	
JOHN J.	0700		1830	
JOHN S.	0700		0100	
RANDY S.	0700	NO	0430	
JAMIE M.	0900		0000	
RICKY T.	0700		2100	
JULIE S.	1600		0000	

Subcontractor Name	# of Employees	Work Performed	Site location
LOCATING CONTRACTOR	1	UTILITY LINES	AS-4146
J.L. BATTIS	3	PILON DRIVER	
EST-J	1	HAUL DIRT	
APS	4	REPAIR PCD	

Site Location	QTY of Material Used	Type of Material Used
AS-4146		BARRIER CONE
		SAFTY FENCE W/ POSTS

Equipment Description	Hours/Miles	Location
MINI EXCAVATOR	1346 HRS	AS-4146
BOBCAT EXCAVATOR	1032 HRS	
JOHN DEERE LOADER	1072 HRS	
STREET SWEEPER	1148 HRS	



MEC Corp.

Military Environmental & Construction Corp.

Supervisor Daily Form

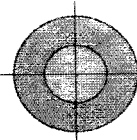
Date	Time	Work Performed
04-07-07	0500	FINISH PUTTING WALL BARRIER UP
	0700	FINISH DIG
	0900	CLEAN AROUND PIPE
	0930	BRACE PIPES
	1100	DRAIN FUEL OUT OF PIPE
	2100	FINISH DRAIN

MEC Employee	Start	Lunch	Leave Site	Site Location
JEREMY J.	0700	NO LUNCH	0130	AS-4146
CHAUNCEY B.	0700		1800	
DAVID B.	0700		1800	
TRAVIS C.	0700		1900	
BRAIN L.	0700		2000	
HAROLD H.	0700		~~0400~~ 0400	
JODY H.	0700		1600	
JOHN J.	0700		1425	
WADE L.	0700		0030	
JOHN S.	0700		2230	
RANDY S.	0700		0400	
RICKY T.	0700		1300	

Subcontractor Name	# of Employees	Work Performed	Site location
N/A			AS-4146

Site Location	QTY of Material Used	Type of Material Used
AS-4146		N/A

Equipment Description	Hours/Miles	Location
STREET SWEEPER	1152 HRS	AS-4146
BOBCAT EXCAVATOR	1042 HRS	
VAC. TRUCK	63.313	

**MEC Corp.**

Military Environmental & Construction Corp.

Supervisor Daily Form

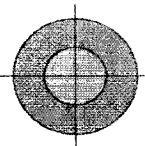
Date	Time	Work Performed
04-08-09	0700	CUT PIPE OUT
	1100	PATCH PIPE
	1300	TEST PRESSURE ON PIPE
	1500	PUT FEET GRAVEL IN HOLE

MEC Employee	Start	Lunch	Leave Site	Site Location
JEREMY J.	0700	NO LUNCH ↓ ✓	1600	
CHAUNCEY B.	0700		1930	
PAUL F.	0700		1530	
BRAIN G.	0700		1730	
HAROLD H.	0700		0930	
WADE L.	0700		1815	
JOHN S.	0700		1930	
RANDY S.	0700		0430	
RICKY T.	0700		1200	

Subcontractor Name	# of Employees	Work Performed	Site location
N/A			AS-4146

Site Location	QTY of Material Used	Type of Material Used
AS-4146	2 TRUCK LOADS	FEET GRAVEL

Equipment Description	Hours/Miles	Location
BOBCAT EXCAVATOR	1052	AS-4146
JOHN DEERE LOADER	682	↓
COMPACTOR	N/A	



MEC Corp.

Military Environmental & Construction Corp.

Supervisor Daily Form

Date	Time	Work Performed
04-09-09	0700	COMPACT DIRT
	1600	CLEAN UP JOB SITE

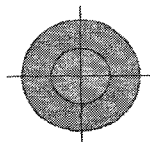
MEC Employee	Start	Lunch	Leave Site	Site Location
JEREMY J.	0700	NO LUNCH	1215	AS-4146
CHAUNCEY B.	0700	↓	2330	↓
PAUL F.	0700	↓	0000	↓
BRAIN G.	0700	↓	1000	↓
JOHN J.	1200	↓	1300	↓
JOHN S.	0700	↓	0000	↓
RANDY S.	0700	↓	0430	↓

Subcontractor Name	# of Employees	Work Performed	Site location
N/A			

Site Location	QTY of Material Used	Type of Material Used
N/A		

Equipment Description	Hours/Miles	Location
COMPACTOR	N/A	AS-4146

Activity Hazard Analysis



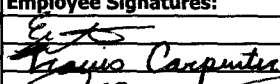
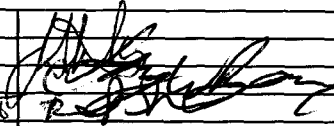
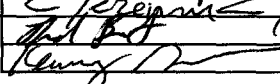
MEC Corp.

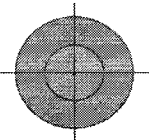
Military Environmental & Construction Corp.

4/6/2009

Site Location:
AS-4146

Activity Hazard Analysis

Pre-Job Preparation: 1. Fill out AHA 2. Review AHA 3. Sign AHA	Safety Access/ Location	Supervisor of Work: Randy Smith &/or Kenny Glover	
	Safe Haven: Nearest shelter	AHA Prepared By: Randy Smith	
	Wind Direction:	Are other crews in area?	
	Evacuation Route:	NO	
	Assembly Point: Inside nearest building during emergency, regroup at company storage location	New: ☐	Yes ☐
	Revised: ☐		
Project Task		Audit the Job	
Escavate to find pipe line		Audit Time:	
Potential Hazards		Supervisor's Comments	
Tool/Equipment Hazards		NO SMOKING	
Slips, trips, falls		Reviewed	
Open Trench		EM 385	
Contact with contamanits			
Cave in			
Action or Procedure			
Site Inspections			
Site Cleanup			
Safety Meetings			
Proper signals and warnings when using tools and equipment			
Tools and equipment inspections			
Proper lifting and movements			
Avoid interference with other possible operations in the area			
Personal Protective Equipment such as hard hats, gloves, steel-toe boots, etc.			
Safety Vests			
Chemical Resistant Suit			
Fence off Trench			
Shoring with pilons and 2X6 (See AHA)			
Employee Signatures:			
			
			



MEC Corp.

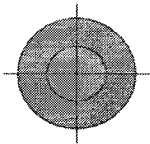
Military Environmental & Construction Corp.

4/7/2009

Site Location:
AS-4146

Activity Hazard Analysis

Pre-Job Preparation: 1. Fill out AHA 2. Review AHA 3. Sign AHA	Safety Access/ Location	Supervisor of Work: Randy Smith &/or Kenny Glover	
	Safe Haven: Nearest shelter	AHA Prepared By: Randy Smith	
	Wind Direction: Evacuation Route: Assembly Point: Inside nearest building during emergency, regroup at company storage location	Are other crews in area? NO	
		New: ☐ Yes ☐	
	Revised: ☐		
Project Task		Audit the Job Audit Time:	
Drive Pylons			
Construct Shoring			
Potential Hazards		Supervisor's Comments	
Tool/Equipment Hazards		Reviewed EM 385 NO SMOKING	
Slips, trips, falls			
Open Trench			
Contact with contaminants			
Cave in			
Crane operation/Contact with load/Overhead Lifting			
Action or Procedure			
Site Inspections			
Site Cleanup			
Safety Meetings			
Proper signals and warnings when using tools and equipment			
Tools and equipment inspections			
Proper lifting and movements			
Avoid interference with other possible operations in the area			
Personal Protective Equipment such as hard hats, gloves, steel-toe boots, etc.			
Safety Vests			
Chemical Resistant Suit			
Fence off Trench/Crane Inspection/Secure Area around Crane/Tag Lines			
Employee Signatures:			
Troy Carpenter			
Elizabeth Jaquet			
Kenny Glover			



MEC Corp.

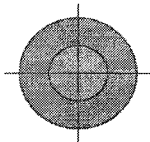
Military Environmental & Construction Corp.

4/8/2009

Site Location:
AS-4146

Activity Hazard Analysis

Pre-Job Preparation: 1. Fill out AHA 2. Review AHA 3. Sign AHA	Safety Access/ Location	Supervisor of Work: Randy Smith &/or Kenny Glover	
	Safe Haven: Nearest shelter	AHA Prepared By: Randy Smith	
	Wind Direction: Evacuation Route: Assembly Point: Inside nearest building during emergency, regroup at company storage location	Are other crews in area? NO	
		New: Yes Revised:	
Project Task		Audit the Job Audit Time:	
Repair Fiberglass Pipe Line			
Potential Hazards		Supervisor's Comments	
Tool/Equipment Hazards		Reviewed EM 385 NO SMOKING WITHIN 50'	
Slips, trips, falls			
Open Trench			
Dust Exposure			
Chemical Exposure			
Action or Procedure			
Site Inspections			
Site Cleanup			
Safety Meetings			
Proper signals and warnings when using tools and equipment			
Tools and equipment inspections			
Proper lifting and movements			
Avoid interference with other possible operations in the area			
Personal Protective Equipment such as hard hats, gloves, steel-toe boots, etc.			
Safety Vests			
Chemical Resistant Suit/Forced Air Hood			
Employee Signatures:			
Kenny Glover			
Randy Smith			
Kenny Glover			
Randy Smith			
Kenny Glover			
Randy Smith			

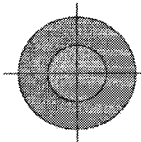
**MEC Corp.**

Military Environmental & Construction Corp.

4/9/2009

Site Location:
AS-4146**Activity Hazard Analysis**

Pre-Job Preparation: 1. Fill out AHA 2. Review AHA 3. Sign AHA	Safety Access/ Location	Supervisor of Work: Randy Smith &/or Kenny Glover	
	Safe Haven: Nearest shelter	AHA Prepared By: Randy Smith	
	Wind Direction: Evacuation Route: Assembly Point: Inside nearest building during emergency, regroup at company storage location	Are other crews in area? NO	
	New: Yes Revised:		
Project Task		Audit the Job Audit Time:	
Back Filling and Compacting			
Potential Hazards		Supervisor's Comments	
Tool/Equipment Hazards		Reviewed EM 385	
Slips, trips, falls			
Cave In			
Moving Equipment			
		NO SMOKING	
Action or Procedure			
Site Inspections			
Site Cleanup			
Safety Meetings			
Proper signals and warnings when using tools and equipment			
Tools and equipment inspections			
Proper lifting and movements			
Avoid interference with other possible operations in the area			
Personal Protective Equipment such as hard hats, gloves, steel-toe boots, etc.			
Safety Vests			
Only Remove Shoring at Height of Compaction			
Trained Operators/Stay Alert			
Employee Signatures:			
<i>[Signature]</i>			
<i>[Signature]</i>			
<i>[Signature]</i>			
<i>[Signature]</i>			



MEC Corp.

Military Environmental & Construction Corp.

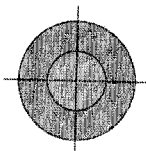
4/10/2009

Site Location:
AS-4146

Activity Hazard Analysis

Pre-Job Preparation: 1. Fill out AHA 2. Review AHA 3. Sign AHA	Safety Access/ Location	Supervisor of Work: Randy Smith &/or Kenny Glover	
	Safe Haven: Nearest shelter	AHA Prepared By: Randy Smith	
	Wind Direction:	Are other crews in area?	
	Evacuation Route:	NO	
	Assembly Point: Inside nearest building during emergency, regroup at company storage location	New: Yes	
	Revised:		
Project Task		Audit the Job	
Sod Placement		Audit Time:	
Fenceing			
Potential Hazards		Supervisor's Comments	
Tool/Equipment Hazards		EM385	
Slips, trips, falls			
Moving Equipment			
Back Strains			
Cuts			
		NO SMOKING	
Action or Procedure			
Site Inspections			
Site Cleanup			
Safety Meetings			
Proper signals and warnings when using tools and equipment			
Tools and equipment inspections			
Proper lifting and movements			
Avoid interference with other possible operations in the area			
Personal Protective Equipment such as hard hats, gloves, steel-toe boots, etc.			
Safety Vests			
Employee Signatures:			
Tiquio Carpenter			
[Signature]			
[Signature]			
[Signature]			
[Signature]			

Real Time Air Monitoring Log



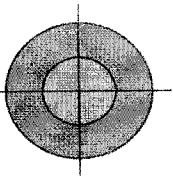
MEC Corp.

Military Environmental & Construction Corp.

REAL TIME AIR MONITORING LOG

Date	Analyst Initials	Time	Instrument (Mfg/Model/Serial No.)	Concentration (Units) ()	Location/Activity/Comments
4-6	KG	10:00pm	BWTeh GasAlert MicroS / MS PID XWG YAPPYN	4 ppm	(At 2' below surface AS4146 IN Excavation.)
4-6	KG	10:00pm	Same as Above	LEL 2 / 19.5	At 2' below surface
4-7	KG	3:00am	Same as Above	15 ppm	Breathing Zone / PPE Level C
4-7	KG	3:00am	Same as Above	LEL 3 / 19.6	Breathing Zone Level C In hole
4-7	KG	9:00am	Same as Above	11 ppm	Breathing Zone Level C In hole
4-7	KG	9:00am	Same as Above	LEL 1 / 19.8	Breathing Zone Level C In hole
4-7	KG	2:00pm	Same as Above	5 ppm	Breathing Zone Level C In hole
4-7	KG	2:00pm	Same as Above	LEL 0 / 19.7	Breathing Zone Level C In hole
4-7	KG	5:00pm	Same as Above	1 ppm	Breathing Zone Level D In hole
4-7	KG	5:00pm	Same as Above	LEL 0 / 19.8	Breathing Zone Level D In hole
4-8	KG	9:30pm	Same as Above	0 ppm	Breathing Zone Level D In hole
4-8	KG	9:30pm	Same as Above	LEL 0 / 19.8	Breathing Zone Level D In hole
4-8	KG	11:30pm	Same as Above	0 ppm	Breathing Zone Level D In hole
4-8	KG	11:30pm	Same as Above	LEL 0 / 19.9	Breathing Zone Level D In hole

Equipment Inspection Form



MEC Corp.

Military Environmental & Construction Corp.

MEC Corp.
1305 Lejeune Blvd.
Jacksonville, NC 28540
Email: rsmith@meccorporation.com
Phone: 910-478-4984
Fax: 910-478-4987

Equipment Inspection Form

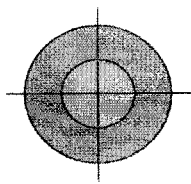
Brakes	X	Fire Extinguisher	✓
Air System	X	Backup Alarm	X
Tires/Tracks	X	Exhaust System	X
Horn	X	Fluid Levels:	X
Safety Devices	X	Engine Oil Level	X
Glass		Hydraulic Fluid Level	X
Mirrors	X	Water Level	X
Defroster		Maintenance Manuals	X
Steering System	X	Operating Manuals	X
Wire Rope		Load Charts	X
Electrical System	X	Seatbelts	X
Operating Controls	X	Battery	X
Lights/Reflectors	X	Appearance	X
Windshield Wipers	✗	Visible Damage	

Hours/Miles: 1346

Notes: TB175 TAKEUP+II

Inspector: Jeremy Joque

Date: 4-06-09



MEC Corp.

Military Environmental & Construction Corp.

MEC Corp.
1305 Lejeune Blvd.
Jacksonville, NC 28540
Email: rsmith@meccorporation.com
Phone: 910-478-4984
Fax: 910-478-4987

Equipment Inspection Form

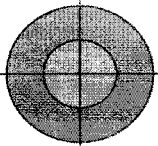
Brakes	X	Fire Extinguisher	X
Air System	X	Backup Alarm	X
Tires/Tracks	X	Exhaust System	X
Horn	X	Fluid Levels:	X
Safety Devices	X	Engine Oil Level	X
Glass	X	Hydraulic Fluid Level	X
Mirrors	X	Water Level	X
Defroster	X	Maintenance Manuals	X
Steering System	X	Operating Manuals	X
Wire Rope		Load Charts	X
Electrical System	X	Seatbelts	X
Operating Controls	X	Battery	X
Lights/Reflectors	X	Appearance	X
Windshield Wipers	X	Visible Damage	

Hours/Miles: 672

Notes: 544 JOHN DEERE LOADER

Inspector: Jeremy [Signature]

Date: 4-26-09



MEC Corp.

Military Environmental & Construction Corp.

MEC Corp.

1305 Lejeune Blvd.

Jacksonville, NC 28540

Email: rsmith@meccorporation.com

Phone: 910-478-4984

Fax: 910-478-4987

Equipment Inspection Form

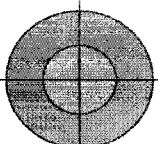
Brakes	X	Fire Extinguisher	
Air System	X	Backup Alarm	X
Tires/Tracks	X	Exhaust System	X
Horn	X	Fluid Levels:	X
Safety Devices	X	Engine Oil Level	X
Glass		Hydraulic Fluid Level	
Mirrors	X	Water Level	X
Defroster		Maintenance Manuals	X
Steering System	X	Operating Manuals	X
Wire Rope		Load Charts	X
Electrical System	X	Seatbelts	X
Operating Controls	X	Battery	X
Lights/Reflectors	X	Appearance	X
Windshield Wipers		Visible Damage	

Hours/Miles: 1148

Notes: <u>HERTZ LAUMORE SWEEPER</u>

Inspector: *Jeremy Leggett*

Date: 04-06-09



MEC Corp.

Military Environmental & Construction Corp.

MEC Corp.
1305 Lejeune Blvd.
Jacksonville, NC 28540
Email: rsmith@meccorporation.com
Phone: 910-478-4984
Fax: 910-478-4987

Equipment Inspection Form

Brakes	X	Fire Extinguisher	X
Air System	X	Backup Alarm	X
Tires/Tracks	X	Exhaust System	X
Horn	X	Fluid Levels:	X
Safety Devices	X	Engine Oil Level	X
Glass	✓	Hydraulic Fluid Level	X
Mirrors	X	Water Level	X
Defroster	X	Maintenance Manuals	X
Steering System	X	Operating Manuals	X
Wire Rope		Load Charts	X
Electrical System	X	Seatbelts	X
Operating Controls	X	Battery	X
Lights/Reflectors	X	Appearance	X
Windshield Wipers	X	Visible Damage	

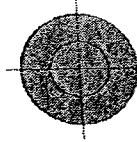
Hours/Miles: 1032

Notes: 331 BOBCAT EXCAVATOR

Inspector: Jeremy Smith

Date: 4-06-09

Safety Meetings



MEC Corp.

Military Environmental & Construction Corp.

1305 Lejeune Blvd.
Jacksonville, NC 28540
Phone: 910-389-2365 or 910-389-7383
Fax: 910-478-4987

SAFETY MEETING

Company Name MEC Job Name MS 4146
Date 4/6/09

Why All The Fuss About Accident Prevention?

You've heard lots of talk, read lots of words, about working safely on our projects. Sure it's "old stuff" — and important stuff.

There's lots at stake for YOU in working without injury or damage. You have much to gain by keeping fit and unhurt. One reason has a big dollar-sign in front of it. But there are other important reasons: other people who count on you for happiness, and perhaps for financial support; they also have a big stake in your safety as a construction worker.

And there are other things — like what you want most out of life. Maybe it's a top-favorite hobby like fishing, hunting, a boat, a new set of wheels, a trip to far-off places, entering or finishing up school, early retirement, or a healthy bank account to fall back on. Keeping uninjured and steadily on the payroll has a lot to do with winning your important goals in life.

Think of all the things you're able to do now that give you earning power; then think of trying to do these same things if you were minus a hand...or arm...or leg...or your eyesight. It's much harder — if not impossible — for a disabled worker to reach all his major personal goals.

So don't think about safe work practices and rules as "hemming you in" or "cutting down on your individual freedom"; think about them as positive things, designed to help you keep your freedom and your abilities, so that you have a better chance of getting what you want most out of life.

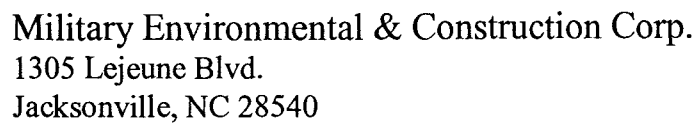
A risky habit or dangerous condition on the job is a threat to your freedom and your future. Working efficiently and without injury is the safest avenue leading from where you are to where you want to be in life.

That's why accident prevention is worth fussing about!

Safety Recommendations: STAY ALERT

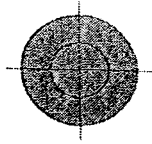
Job Specific Topics: FLAMMABLE, TRAFFIC, OPEN TRENCHES

M.S.D.S Reviewed: _____



4/6/09

Ricky Torrence	~~Eric~~
Jonathan Stanley	~~Keith~~
Travis Carpenter	~~T Carpenter~~
~~Ryan Griffin~~	~~Ryan~~
Jeremy Jarrett	Jeremy Jarrett
David Britt	David Britt
Kenny Glover	Kenny Glover
David Hensley	David Hensley
Randy Smith	Randy Smith



MEC Corp.

Military Environmental & Construction Corp.

1305 Lejeune Blvd.

Jacksonville, NC 28540

Phone: 910-389-2365 or 910-389-7383

Fax: 910-478-4987

SAFETY MEETING

ARE TRENCH EXCAVATIONS CONFINED SPACES?

The answer to this question is not as obvious as you may think. Let's review some terminology. By OSHA definition, a *confined space* means the space is:

- large enough and so configured that an employee can enter and perform assigned work;
- has limited or restricted means for entry or exit;
- is not designed for continuous employee occupancy.

A trench excavation would certainly seem to meet the confined space criteria. By OSHA definition, a *trench excavation* means;

- a narrow excavation (in relation to its length) made below the surface of the ground;
- in general, the depth is greater than the width;
- but the width of a trench (measured at the bottom) is not greater than 15 feet.

How Does a *Permit-Required Confined Space* relate to a trench excavation? A *permit-required confined space* has one or more of the following characteristics:

(1) Contains or has the potential to contain a hazardous atmosphere.

- Oxygen deficient, toxic, or flammable atmospheres can occur in trenches, displacing the normal air. Some of the most common gases of concern are carbon monoxide, methane, and hydrogen sulfide. These gases should be suspected whenever trenches are near combustion engines, sewage lines, landfills, swamps, leaking underground storage tanks, or when decomposing organic matter is nearby. Hydrogen sulfide is heavier than air and may fill the trench starting from the bottom. OSHA law states that if hazardous atmospheres could reasonably be expected to exist, the atmospheres shall be tested before employees enter excavations greater than 4 feet in depth.

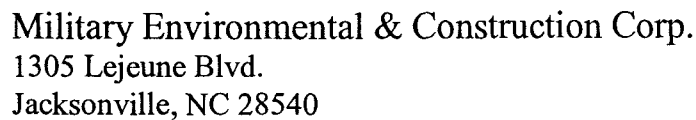
(2) Contains a material that has the potential for engulfing an entrant.

(3) Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section.

- Trenches without adequate sloping, or other protection from collapse, create potential for entrants to be engulfed in a cave-in of the surrounding earth. Excessive rain water, ground water, or liquid from leaking or damaged pipes also may create conditions for engulfing trench entrants, which meets the criteria for both 2 and 3 above.

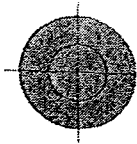
(4) Contains any other recognized serious safety or health hazard.

- In addition, access into trenches over 4 feet in depth can usually be accomplished only by ladder, which poses known risks of slipping and falling. Entrants could also be struck by excavation machinery or by falling materials from overhead.



4/7/09

Travis Carpenter	Travis Carpenter
Jonathan Stanley	~~John Stanley~~
Ricky Torrence	~~Ricky Torrence~~
~~Byron Gibson~~	~~Byron Gibson~~
Jerry Jacob	Jerry Jacob
David Bull	Phil Bull
Kenny Glover	Kenny Glover
Harold Hensley	Harold Hensley
Randy Smith	Randy Smith



MEC Corp.

Military Environmental & Construction Corp.

1305 Lejeune Blvd.
Jacksonville, NC 28540
Phone: 910-389-2365 or 910-389-7383
Fax: 910-478-4987

SAFETY MEETING

Company Name MEC Job Name AS 4146
Date 4/8/09

REFUELING EQUIPMENT - "FILL'ER UP!"

When you hear this request at a service station, you can be pretty sure the job will be done safely. Service station operations and equipment are designed with safety in mind. But what happens when you fill up that front-end loader or portable generator on the job? Do you do it the safe way so you won't get hurt?

RULES TO REMEMBER

Never smoke during refueling operations. And don't refuel near an open flame. Keep a CO2 (carbon dioxide), or an ABC Dry Chemical extinguisher handy, just in case.

If there's a chance of a vehicle rolling while being refueled, chock the wheels. Before filling the fuel tank, shut off the engine.

If the tank is near the engine or other hot areas, such as the manifold or muffler, let the engine cool before filling the tank.

When transferring fuel from a can, mobile tank or fuel truck, keep the spout or nozzle in contact with the fuel tank. Few people know this, but as fuel is poured, it can generate static electricity. If a spark ignites the vapors, it's all over for you.

Don't spill the fuel because it might ignite when it comes in contact with something hot. And don't make one of the most common mistakes - overfilling the tank. If the equipment is in the hot sun, the fuel will expand and eventually overflow. Leave enough space in the tank to compensate for expansion or tilting.

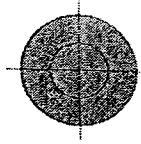
After refueling has been completed, be sure all fuel has been drained from the hose and that any spills are cleaned up immediately.

Safety Recommendations: Chemical suits

Job Specific Topics: Fuel clean up

M.S.D.S Reviewed: _____

Jonathan Stanley	J. Stanley
Ricky Torrence	Ricky Torrence
Travis Carpenter	Travis Carpenter
Brian Griffin	Brian Griffin
JEREMY JACOB	Jeremy Jacob
David Britt	David Britt
Kenny Glover	Kenny Glover
David H. Hensley	David Hensley
Kathy Smith	Kathy Smith



MEC Corp.

Military Environmental & Construction Corp.

1305 Lejeune Blvd.

Jacksonville, NC 28540

Phone: 910-389-2365 or 910-389-7383

TRAFFIC CONTROL - TAKE CARE

Even when all traffic control measures are taken, a confused or unaware driver can crash through a work site, or a daydreaming worker can step into the path of a speeding vehicle. Some drivers take reckless chances by running stop signs or changing lanes without signaling. These unsafe acts jeopardize other drivers who may lose control of their vehicle while avoiding a collision. We must all prepare for the unexpected on the road, both during and after work hours. When our worksite involves moving traffic, safety awareness should be at its peak, to protect both the public and the crew. Let's all follow these safety procedures:

Planning: All traffic control must be carefully planned and approved by governing authorities before work begins. The person responsible for this planning should drive through the traffic pattern before any work starts to insure that the public will understand how to control their vehicles appropriately. If there is any possibility of driver confusion in the pattern, change it.

Signage: The Manual on Uniform Traffic Control Devices and local or state regulations should be followed for proper signage and barricading. Place initial warning signs a minimum of 1,000 feet from traffic revisions. All signs and related equipment should be in good condition and highly visible. In some cases, independent traffic safety contractors handle warning signs and barricades.

Barricades: Devices which guide traffic such as cones, barrels, etc., should be highly visible and spaced relatively close together, so drivers will not deviate from an assigned traffic flow. All such barriers should be made of material that will cause little or no damage if a vehicle contacts it.

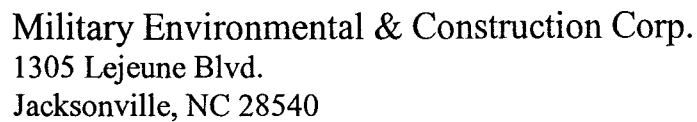
Safety Gear: All employees should wear hard hats and must wear high-visibility orange or day-glow vests. When working at night, the vest should have light-reflective strips.

Flaggers: Roadside construction sites must have at least one individual assigned to traffic control. A highly visible sign paddle should be used during daylight hours. It should be octagonal in shape, at least 18 inches across, and have letters at least six inches high that say *STOP* on one side and *SLOW* on the other. Flaggers should have two-way radios. When flaggers are present, a sign indicating this must be placed a minimum of 500 feet from the beginning of the detour.

Vehicles: All construction vehicles should be equipped with backing alarms, two-way radios, and *Slow Moving Vehicle* signs when appropriate. Ideally, they should be painted a highly visible color and many jurisdictions also require flashing yellow beacons. All operators must be qualified and trained to operate the equipment they are using. If a vehicle will be parked along-side the road, orange safety cones should be placed around it to alert drivers.

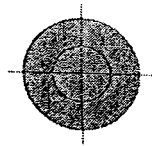
Night Work: If work is done at night, the entire site must be illuminated. Increase warning distances in areas of fast-moving traffic as light fails. Flaggers should have orange-cone flashlights and barricades should be equipped with flashing lights. Any excavations or utility accesses should be taped off and barricaded with flashing warning lights.

Training: All company employees and subcontractors involved in the project must receive an initial safety orientation, informing them of the potential hazards of the project, including traffic safety. Changes or



Subject: TRAFFIC CONTROL
Date: 4/9/09

Jonathan Stanley	~~John~~
~~Ricky Torrence~~	~~Eric~~
Travis Carpenter	Travis Carpenter
Brian Griffin	~~Eric~~
Jeremy Hansen	Jeremy Hansen
David Britt	Bob Britt
Kenny Glover	Kenny Glover
Hugh H. Hensley	Hugh H. Hensley
Larry Smith	Ray Smith



MEC Corp.

Military Environmental & Construction Corp.

1305 Lejeune Blvd.

Jacksonville, NC 28540

Phone: 910-389-2365 or 910-389-7383

Fax: 910-478-4987

FLAMMABLE LIQUIDS

I once heard of a workman who used a flammable solvent for cleaning and spilled some of it on his clothing. After he finished the job, he paused to smoke. The instant he struck the match to light his cigarette, he became a human torch. I've heard of other cases where flammable liquids have caused serious fires, which resulted in a great loss of life and tremendous property damage. We use many kinds of flammable liquids every day on this job: gasoline, cleaning fluids, paints, and thinners, to name just a few. The danger of these materials can be controlled.

SOME FACTS YOU MAY NOT KNOW

Flammable liquids themselves will not burn, as many people think. But as the liquid evaporates it gives off vapors that mix with the air to form dangerous gases that can be set off by the smallest spark. Take gasoline, for example. Gasoline evaporates at temperatures as low as 45°F below zero. As the temperature rises, the rate of evaporation increases and more and more vapors are given off. This also is true for other flammable liquids, except that the temperature at which they give off vapors varies with the kind of liquid.

FOLLOW THESE COMMON SENSE RULES

If we remember a few simple common sense rules when storing, handling, and using flammable liquids, we can help prevent this job, or any of us, from going up in flames.

Keep flammable liquids away from open flame and sparks. This means that you should never smoke around them.

Always use approved metal safety cans or the original manufacturer's container to store flammable liquids. Keep these containers closed when not in use, and never store them near exits or passageways.

Practice good housekeeping in flammable liquid storage areas. Clean up spills immediately and then place the rags you used to do the job in a tightly closed metal container.

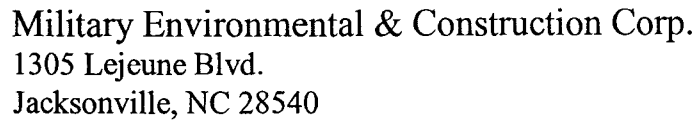
Be careful not to get a flammable liquid on you. It not only could burn you if it catches fire, but it could cause painful skin irritation that could easily become infected. If you get it on you, wash it off as soon as you can.

Never try to boost a fire with a flammable liquid. You are in for trouble if the fire flares up.

DON'T TRUST YOUR NOSE - VENTILATE

Don't trust your nose to tell you whether an area or container is vapor free. Not all dangerous liquids give off vapors that you can smell. Some vapors are poisonous as well as flammable. Use flammable liquids only where there is plenty of ventilation.

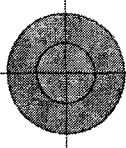
Vapors given off by flammable liquids are usually heavier than air and collect in the lowest area they can reach. Without good ventilation to dissipate them, you have a potential disaster awaiting that one small



Subject: FLAMMABLE LIQUIDS
Date: 4/10/09

Randy Smith	John
Jeffrey Aquen	Jeffrey Aquen
Jonathan Stanley	Jonathan Stanley
Travis Carpenter	Travis Carpenter
Brian Griffin	Brian Griffin
David Burt	David Burt
Kenny Glover	Kenny Glover
Harold Hensley	Harold Hensley

Lockout/Tagout Activity Checklist



MEC Corp.

Military Environmental & Construction Corp.

Lockout/Tagout Activity Checklist

1. EQUIPMENT OR DEVICE TO BE CONTROLLED

Name JPS Fuel Line Manufacturer: _____ Model # _____ Serial # _____

Building or Area: AIR STATION Room: AS-4146

Additional Information: FUEL LINE SHUT OF VALVES

2. EMPLOYEE(S) INTERVIEWED:

1. Employee Name:	<u>KENNY GLOVER</u>	Authorized?	<u>X</u>	Affected?	_____
(list additional	<u>CHAUNCEY BARNES</u>	Authorized?	<u>X</u>	Affected?	_____
employees on the	_____	Authorized?	_____	Affected?	_____
back of this sheet)	_____	Authorized?	_____	Affected?	_____
	_____	Authorized?	_____	Affected?	_____

2. Were Authorized Employee(s) trained? X Yes _____ No

If No, stop the activities and contact Department Management

If Yes, after the inspection verify documentation is on file? Record the training date.

3. ARE ENERGY CONTROL PROCEDURES BEING FOLLOWED? (Ask employee to describe the procedure.)

1. Are Energy Control Procedures being followed? X Yes _____ No

If NO, Stop work. Find out why procedures are not being followed.

If YES, Proceed with the work.

Employee Description of Procedure Correct? X Yes _____ No

4. LOCKOUT AND TAGOUT DEVICES:

1. Standardized Lock (singularly identifiable)?	<u>X</u>	Yes	_____	No
2. Lock Out devices used? (i.e. multi- lock hasps)	<u>X</u>	Yes	_____	No
3. If yes, are they substantial enough to prevent removal without the use of excessive force or unusual techniques	<u>X</u>	Yes	_____	No
4. Standard Tags used?	<u>X</u>	Yes	_____	No
5. If yes, did the information include: employee name, date, and activity description?	<u>X</u>	Yes	_____	No

5. EMPLOYEE CONDUCTING INSPECTION:

1. Inspecting Employee Name: KENNY GLOVER Last training date: 4/06/09

6. ENVIRONMENTAL HEALTH AND SAFETY HAS REVIEWED THIS DOCUMENT AND APPROVED THE CONTROL OF HAZARDOUS ENERGY (Lockout / Tagout) PERIODIC INSPECTION.

Signature: _____ Date: _____ (mm/dd/yyyy)

Procedures

Step 1: Before Beginning to Service Equipment		Yes	No	N/A
1.	Have the type and amount of energy source(s) on the equipment been identified?	X		
2.	Have the possible dangers related to the energy source being controlled been identified?	X		
3.	Are the steps necessary to control the energy source understood?	X		
4.	Have all affected employees been notified when the equipment will be shut down for service?	X		

Step 2: Shut Down Equipment		Yes	No	N/A
1.	Have the MEC's Safety Procedures been followed?	X		
2.	Have the manufacturer & MEC's Instructions been referred to?	X		

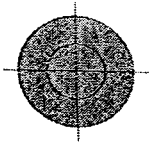
Step 3: Isolate the Machine or Equipment		Yes	No	N/A
1.	Has the main breaker or control switch been shut off?	X		
2.	Have the valves been closed?	X		
3.	Have process lines been disconnected?			X

Step 4: Attach Lock and Tag		Yes	No	N/A
1.	Have the lock and tag been attached?	X		

Step 5: Control Stored Energy		Yes	No	N/A
1.	Has the electrical capacitance been bled?			X
2.	Have the pressure or hydraulic lines from the work area been vented or isolated?	X		
3.	Have tanks been drained?			
4.	Are switches or levers that could be moved into the start position blocked, clamped, or chained?			X
5.	Are lines containing process materials that are toxic, hot, cold, corrosive, or asphyxiating cleared?	X		

Step 6: Verify That the Energy State is at Zero		Yes	No	N/A
1.	Have the start switches on the equipment been tested?	X		
2.	Have the pressure gauges been checked to insure that lines are depressurized?	X		
3.	Are blocks or cribs secure?			X
4.	Have electrical circuits been checked to verify that voltage is at zero energy?	X		
5.	Are blanks, used to block feed chemicals, secure, and not leaking			X

Step 7: If you have answered yes (or N/A) to the above steps, then the correct procedures are being followed. If not, describe the corrective actions taken:



MEC Corp.

Military Environmental & Construction Corp.

1305 Lejeune Blvd.

Jacksonville, NC 28540

Phone: 910-389-2365 or 910-389-7383

Fax: 910-478-4987

Company Name MEC Job Name AS4146
Date 4/6/09

LOCKOUT/TAGOUT PROCEDURES

Lockout/Tagout Procedures

Before any maintenance, construction, demolition, tie-in, inspection or servicing of equipment (electrical, mechanical, steam or other) that requires entrance into or close contact with machinery, equipment, power sources or line breaking, the power shall be disconnected and locked out.

Electrical

Electrical sources will have the main power switch locked out, and if possible, the fuses removed. Locks with dissimilar keys will be provided to each person working on the affected job. Only the person attaching the lock shall remove it. Multiple locking devices shall be provided. Tags will be attached to each lock indicating the name of the person attaching the lock, the location where he/she is working and the person's foreman or supervisor. Hot work will be avoided, if possible.

Moving Equipment

The main power source, or sources, shall be locked out; drive gear disengaged and locked out; and appropriate tags applied.

Piping

Piping shall be blanked or valves shall be closed, chained and locked. Where possible, at least two valves before and after the affected section should be chained, locked and tagged. Piping shall be de-pressurized, drained and purged, if necessary.

Other Energy Sources

Other power sources shall be rendered inoperative as directed by a qualified supervisor or manager

Locks And Tags

Locks and tags will be attached and removed only by the individual employee directly involved in the operation. The last person removing his/her lock shall ensure that there are no persons exposed should the power be turned on.

Safety Recommendations: INFORM FUEL FARM BEFORE LOCK OUT

Job Specific Topics: FUEL LINE LEAK AND REPAIR

M.S.D.S Reviewed: _____

Military Environmental & Construction Corp.
1305 Lejeune Blvd.
Jacksonville, NC 28540

Attendance Roster

Subject: LOCK OUT TAG OUT
Date: 4/6/09

PRINT AND SIGN

Kenny Glover
Randy Smith
Chancy Barnes

Kenny Glover
Randy Smith
Chancy Barnes

Baker

Michael Baker Jr., Inc.

APPENDIX J

NORR Letter



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor

William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

February 12, 2009

Commanding Officer

Attn: I&E/EMD/EQB, Dr. Johanna Arnold-

UST Program Manager, Bldg. 12

PSC Box 20004

MCB Camp Lejeune, NC 28542-0004

Re: Notice of Regulatory Requirements
15A NCAC 2L .0404 and 2L .0405
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

USMC Camp Lejeune 2009 JP-5 Line Release
White Street-Marine Corp Air Station
Onslow County
Incident Number: TBD
Risk Classification: U
Ranking: U

Dear Dr. Arnold:

Information received by this office on February 9, 2009 confirms a release or discharge from a petroleum underground storage tank (UST) system at the above-referenced location. Records indicate that the USMC is the owner or operator of this UST system. Therefore, as a responsible party, the USMC must comply with the initial response and abatement action requirements of Title 15A NCAC 2L .0404 and, if applicable, the assessment and reporting requirements of Title 15A NCAC 2L .0405, within the timeframes specified in the attached rules. (Be aware that if the latter rule is applicable, the USMC must comply with its requirements even if it does not receive formal notification from the UST Section.)

Initial abatement action requirements include the preparation and submittal of an Initial Abatement Action (IAA) Report, in accordance with Title 15A NCAC 2L .0404 and the most recent version of the *UST Section Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement*, within 90 days of discovery of the release.

Because a release or discharge has been confirmed, a Licensed Geologist or a Professional Engineer, certified by the State of North Carolina, is required to prepare and certify all reports submitted to the Department in accordance with Title 15A NCAC 2L .0103(e) and 2L .0111(b).

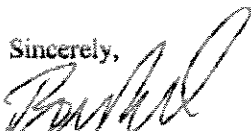
Please note that before the USMC sells, transfers, or requests a "No Further Action" determination for a property that has not been remediated to below "unrestricted use" standards, the

USMC must file a Notice of Residual Petroleum ("Notice") with the Register of Deeds in the county where the property is located (NCGS 143B-279.9 and 143B-279.11).

Failure to comply with the State's rules in the manner and time specified may result in the assessment of civil penalties and/or the use of other enforcement mechanisms.

If there are any questions regarding trust fund eligibility or reimbursement from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds, please contact the UST Section Trust Fund Branch at (919) 733-8486. If there are any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the address or telephone number listed below.

Sincerely,



Bruce Reed

Hydrogeologist II

Wilmington Regional Office

Enclosures: Title 15A NCAC 2L .0404 and 2L .0405
A Brief History of North Carolina Session Laws, Rules, and General Statutes...

cc: George O'Daniel, Onslow County Health Department
WiRO-UST

UST Regional Offices

Asheville (ARO) - 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

Fayetteville (FAY) - 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 (910) 433-3300

Mooreville (MOR) - 610 East Center Avenue, Suite 301, Mooreville, NC 28115 (704) 663-1699

Raleigh (RRO) - 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200

Washington (WAS) - 943 Washington Square Mall, Washington, NC 27889 (252) 946-6481

Wilmington (WIL) - 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215

Winston-Salem (WS) - 585 Waughtown Street, Winston-Salem, NC 27107 (336) 771-5000

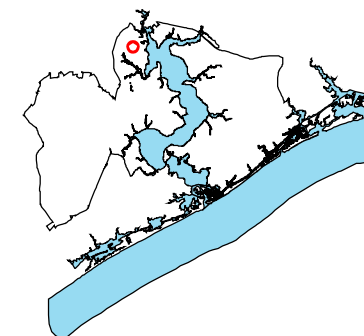
Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

S:\bruce\arnoldjp52009.iaa

***MCBCL/MCASNR SPCC
State Notification of Discharge Report***



New River Air Station AS-4146 [Fixed Zoom Out]

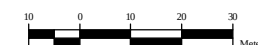


Legend

- CLJN.CLJN.road_centerline
- installation_area
- CLJN.CLJN.coordinate_grid_line

Coordinate System	X-coord	Y-coord
Decimal Degrees	-77.451318	34.718804
DMS	77°27'5"W	34°43'8"N
UTM zone 18, WGS84, Meter:	275526	3844596
	18STD7548144695	

Prepared: January 30, 2009
Author: Jon A. Mayes, II
Organization: I&E/EMD/ECB/RCRS
Telephone: 910.451.1482



Map Projection: UTM (NAD83, GRS 1980)

Map Generated using the Geographic Information System
Managed by the GIS Office
Communications/Information Technology Services Division (CITSD)
Business & Logistics Support Department (BLSD)

NOTE: THIS MAP IS FOR REFERENCE ONLY
THIS MAP IS FOR OFFICIAL USE ONLY (FOUO)

Although every effort has been made to ensure the accuracy of information, errors and conditions originating from the physical sources used to develop the database may be reflected in the data supplied. The requestor must be aware of data conditions and ultimately bear responsibility for the appropriate use of the information with respect to possible errors, original map scale, collection methodology, currency of data, and other specific conditions to certain data.