

Appendix B

**ADEM Closure Assessment Report for Parcel 16(7),
Former Gas Station,
Building 1394, at Former Motor Pool Area 1300,
Parcel 148(7), Anomaly A-2(2)**

ADEM UST CLOSURE SITE ASSESSMENT REPORT

(Use a Separate form for a group of tanks in each tank pit)

| | | | |
|----------------------------------|-------------------------------|----------------------|-------------------------------|
| FACILITY I.D. NO.: | NA | DATE OF THIS REPORT: | 8/2/00 |
| INCIDENT NO. (If applicable). | UST ___ - ___ - ___ | UST OWNER: | U.S. Army |
| FACILITY COUNTY: | Calhoun | ADDRESS: | Ft. McClellan Anniston, AL |
| FACILITY NAME: | Parcel 16 | CONTACT NAME: | |
| LOCATION: | A-2(2) | CONTACT PHONE #: | |
| ADDRESS: | Ft. McClellan Anniston, AL | | |

| | |
|---|---------------------------|
| NAME OF CONTRACTOR USED TO CLOSE (REMOVE) | IT Corporation |
| NAME OF CONSULTANT CONDUCTING ASSESSMENT: | IT Corporation |
| NAME OF LABORATORY USED: | Severn Trent Laboratories |

PRIOR TO BEGINNING CLOSURE, THE CONTRACTOR SHOULD BECOME FAMILIAR WITH ALL CLOSURE PROCEDURES IN AMERICAN PETROLEUM INSTITUTE (API) BULLETIN 1604, "REMOVAL AND DISPOSAL OF USED UNDERGROUND PETROLEUM STORAGE TANKS" AND API BULLETIN 2015 "CLEANING PETROLEUM STORAGE TANKS". THESE API BULLETINS ARE AVAILABLE FROM THE AMERICAN PETROLEUM INSTITUTE.

| | |
|------------------------------------|---|
| NUMBER OF TANKS CLOSED: | <u>NONE (none present)(previously removed; no record)</u> |
| NUMBER OF TANKS REMAINING AT SITE: | <u>NONE</u> |
| CLOSURE DATE: | <u>8/2/00 (piping)</u> |

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| UNIQUE TANK #: | <u>UNK</u> | <u>UNK</u> | | | |
| TANK SIZE: | <u>UNK</u> | <u>UNK</u> | | | |
| TANK CAPACITY: | <u>5000-GAL</u> | <u>5000-GAL</u> | | | |
| TANK AGE: | <u>UNK</u> | <u>UNK</u> | | | |
| DATE TANK LAST USED: | <u>UNK</u> | <u>UNK</u> | | | |
| SUBSTANCE STORED: | <u>UNK</u> | <u>UNK</u> | | | |
| TYPE OF PRODUCT PIPING: (Pressurized/Suction) | <u>STEEL</u> | <u>STEEL</u> | | | |
| FARM TANK: | <input type="checkbox"/> |
| HEATING OIL TANK: | <input type="checkbox"/> |

1. COMPLETE THE FOLLOWING SECTION FOR ALL CLOSURES:

a. Provide the results of a 500 ft. survey for domestic water supply wells in the following table and place their locations on the attached site map:

| Name of Owner of Domestic Water Supply Well | Distance from UST Site | Depth of Well | Status: Active or Inactive? |
|---|------------------------|---------------|-----------------------------|
| NONE | NA | NA | NA |
| | | | |
| | | | |
| | | | |

b. Provide the results of a 1,000 ft. survey for public water supply wells in the following table and place their locations on the attached site map:

| Name of Owner of Public Water Supply Well | Distance from UST Site | Depth of Well | Status: Active or Inactive? |
|---|------------------------|---------------|-----------------------------|
| NONE | NA | NA | NA |
| | | | |
| | | | |
| | | | |

c. Is the UST site located in a delineated wellhead protection or source water area?

YES NO

d. Are there any public water supply surface water intakes within 500 ft. of the UST site?

YES NO

If yes, locate the intake on the attached site map.

NOTE: If an active domestic water supply well or an active public water supply well is located within 500 ft. or 1,000 ft. respectively of the UST site, or if the answer to 1c. or 1d. is Yes, the Department may require groundwater sampling to occur at the UST site. If the groundwater sampling is not performed by the owner/operator during the closure site assessment, the Department may require that groundwater sampling occur as part of a Preliminary Investigation.

Groundwater sampling remains a requirement of the closure site assessment when shallow groundwater is present or when performing an in-place closure site assessment.

e. Indicate the current on-site land use and the most likely future land use:

| Current On-Site Land Use | | Most Likely Future On-Site Land Use | |
|--|-------------------------------------|--------------------------------------|-------------------------------------|
| Residential | <input type="checkbox"/> | Residential | <input type="checkbox"/> |
| Commercial | <input type="checkbox"/> | Commercial | <input type="checkbox"/> |
| Other | <input checked="" type="checkbox"/> | Other | <input checked="" type="checkbox"/> |
| Describe: Military Installation (being closed) | | Describe: Transfer to National Guard | |

f. Describe the current off-site land use within 500 ft of the UST site. State whether the area, in general, is residential, commercial, mixed residential/commercial or other:

| | | |
|--------|---|--|
| North: | Mixture of former residential & commercial facilities associated with military installation | |
| | Northeast: | |
| | Northwest: | |
| South: | Mixture of former residential & commercial facilities associated with military installation | |
| | Southeast: | |
| | Southwest: | |
| West: | Mixture of former residential & commercial facilities associated with military installation | |
| East: | Mixture of former residential & commercial facilities associated with military installation | |

COMPLETE THE FOLLOWING SECTIONS AS APPROPRIATE BASED ON THE TYPE OF CLOSURE CONDUCTED:

2. TANK CLOSURE BY REMOVAL: Tanks previously removed, not found during investigative dig based on geophysical information.

- a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.
- b. Attach plan and sectional views of the excavation and include the following:
 - 1. All appropriate excavation dimensions.
 - 2. All soil sample locations and depths using an appropriate method of identification.
 - 3. Location of areas of visible contamination.
 - 4. Former location of tank(s), including depth, with tank Identification Number.

c. Is the groundwater more than 5 feet below the bottom of the excavation? YES NO
 If no, provide the depth from the ground surface to the groundwater table. Feet: _____

Indicate method used to determine water table depth:

- 1. Excavation extended 5 feet below base of pit: YES NO
- 2. Boring or monitoring well:
- 3. Topographic features (Method must be approved by ADEM prior to use):

d. Was there a notable odor found in the excavation? YES NO

If yes,

(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline)(diesel) (waste oil) (kerosene) (other) describe: _____

e. Was there water in the excavation? YES NO

If yes, how was it handled?

- 1. One time discharge to sanitary sewer with local approval? YES NO
- 2. Hauled to facility capable of treating constituents of petroleum products in water?
- 3. Hauled to local POTW with local approval?
- 4. Treated on-site with NPDES approved discharge?
- 5. Other? Explain: _____

f. Was free product found in the excavation? YES NO

If yes,

ADEM UST CLOSURE SITE ASSESSMENT FORM

- 1. How was free product handled? Describe: _____
- 2. What was the measured thickness of free product? _____

g. Were visible holes noted in the tank(s)? YES NO
NA

If yes,
 Indicate which tanks(s) by the Unique Tank Number: _____

Also, describe the location(s) and provide general description as to the size and number of holes for above noted tanks, (Example: 3 square feet of pinholes or 3 inch diameter hole):

No tank found. Anomaly investigated (suspected as potential UST) was determined to be 2"-diameter steel product/vent piping. The two lines ran from the southwestern corner of the pad westward for approximately 19-ft, where they terminated as uncapped pipe. The piping was buried approx. 2.5-ft below grade.

h. Describe the soil type and thickness of all soil layers encountered in the excavation:

Brownish-red silty, sandy, gravelly CLAYS (backfill). Excavation dimensions: Approx. 3' wide X 22' long X 2.5' deep, to expose entire length of piping.

i. Was the excavation backfilled? YES NO

If yes, provide the date of backfilling: 8/1/00 due to no visual or PID indications or tanks present. Lab results <100ppm

DO NOT BACKFILL WITH MATERIAL THAT HAS OR POTENTIALLY HAS A TPH OF GREATER THAN 100 PPM!

3. TANK CLOSURE WITHOUT REMOVAL(CLOSED IN-PLACE): N/A

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. Attach plan and sectional views of the site and include the following:

- 1. Location of the tank(s) including depth,
- 2. Location of tank(s) with respect to other tanks, if applicable,
- 3. Soil boring locations and depths at which soil samples were taken,
- 4. Boring logs.

c. Attach groundwater sampling data, if required based on depth to groundwater.

d. Is the groundwater more than 5 feet below the bottom of the tank? YES NO

Provide the depth from the ground surface to the groundwater table. Feet: _____

Refer to Closure Site Assessment Guidance (page 11) for further details regarding requirements for determining groundwater elevation.

e. Was there a notable odor found in the bore holes? YES NO

If yes,

(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline) (diesel) (waste oil) (kerosene) (other) describe: _____

f. Was free product found in the bore holes? YES NO

If yes,

1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

g. Describe the soil type and thickness of all soil layers encountered in the bore holes and provide boring logs: _____

h. Specify the inert solid material used to fill the tank(s): _____

i. Provide the date the tank(s) were filled: _____

j. Were the bore holes properly sealed with bentonite/soil? YES NO

If yes, provide the date: _____

4. PRODUCT PIPING CLOSURE BY REMOVAL:

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. If the piping was longer than 10 feet, attach plan and sectional views of the piping trench and include the following:

1. All appropriate excavation dimensions and length of piping,
2. All soil sample locations and depths using an appropriate method of identification.
3. Location of areas of visible contamination.

c. Was the piping purged of product prior to closure? YES NO
If yes, was the product properly disposed of?

ADEM UST CLOSURE SITE ASSESSMENT FORM

d. Is the groundwater more than 5 feet below the bottom of the piping trench? YES NO
 If no, provide the depth from the ground surface to the groundwater table. Feet: _____

Indicate method used to determine water table depth: YES NO
 1. Excavation extended 5 feet below base of trench:
 2. Boring or monitoring well:
 3. Topographic features (Method must be approved by ADEM prior to use):

e. Was there a notable odor found in the piping trench? YES NO
 If yes,
 (1) The odor strength was (mild) (strong) (other) describe: _____
 (2) The odor indicates what type of product: (gasoline) (diesel) (waste oil) (kerosene) (other) describe: _____

f. Was there water in the piping trench? YES NO
 If yes, how was it handled? YES NO
 1. One time discharge to sanitary sewer with local approval?
 2. Hauled to facility capable of treating constituents of petroleum products in water?
 3. Hauled to local POTW with local approval?
 4. Treated on-site with NPDES approved discharge?
 5. Other? Explain: _____

g. Was free product found in the piping trench? YES NO
 If yes,
 1. How was free product handled? Describe: _____
 2. What was the measured thickness of free product? _____

h. Were visible holes noted in the piping? YES NO
 If yes, indicate the location(s) and provide a general description as to the size and number of holes:
Approx. 19' long, 2"-diameter steel piping trending west from southwest corner of pad. Not capped
At end (hole). Piping was removed for disposal as scrap.

- i. Describe the soil type and thickness of all soil layers encountered in the piping trench:
 Brownish-red silty, gravelly, clayey SAND (backfill)
-
-
-

- j. Was the piping trench backfilled? YES NO
 If yes, provide the date of backfilling: 8/1/00

DO NOT BACKFILL WITH MATERIAL THAT HAS OR POTENTIALLY HAS A TPH OF GREATER THAN 100 PPM!

5. PRODUCT PIPING CLOSURE WITHOUT REMOVAL (CLOSED IN-PLACE): N/A

- a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.
- b. Attach plan and sectional views of the site and include the following:
1. Location of the piping including depth,
 2. Location of piping with respect to tank(s), if applicable.
 3. Soil boring locations and depth at which soil samples were taken,
 4. Boring logs.
- c. Attach groundwater sampling data, if required based on depth to groundwater.
Refer to Closure Site Assessment Guidance for further details regarding requirements for groundwater sampling.

- d. Was the piping purged of product prior to closure? YES NO
 If yes, was product properly disposed of?
- e. Was the piping capped? YES NO
- f. Is the groundwater more than 5 feet below the bottom of the excavation? YES NO

Provide the depth from the ground surface to the groundwater table. Feet: _____

Refer to Closure Site Assessment Guidance (page 11) for further details regarding requirements for determining groundwater elevation.

- g. Was there a notable odor found in the bore holes? YES NO

If yes,
 (1) The odor strength was (mild) (strong) (other)
 describe: _____

(2) The odor indicates what type of product:
 (gasoline) (diesel) (waste oil) (kerosene) (other)
 describe: _____

- h. Was free product found in the bore holes? YES NO

If yes,

1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

i. Describe the soil type and thickness of all soil layers encountered in the bore holes and provide boring logs:

j. Were the bore holes properly sealed with bentonite/soil? YES NO
If yes, provide the date: _____

6. GROUNDWATER SAMPLING (If required by attached closure guidelines):

N/A

a. Indicate the following on the plan and section views required by Section 2.b., 3.b, 4.b, or 5.b. above:

1. The location and depth of the 1 up-gradient and 3 down-gradient borings or monitoring wells. (Monitoring wells in lieu of borings are not required, but may be desirable in certain situations.)

2. The most probable direction of groundwater flow. State basis for determining direction:

b. Was a monitoring well used? YES NO

If yes, attach a schematic drawing of the well(s) and all boring logs.

c. SUMMARY OF GROUNDWATER SAMPLING RESULTS: N/A

Date of Sampling: _____

| Boring or MW #: | | | | | | | |
|-----------------------|------|------|------|------|------|------|------|
| | mg/l |
| | | | | | | | |
| Benzene | | | | | | | |
| Ethylbenzene | | | | | | | |
| Toluene | | | | | | | |
| Xylenes | | | | | | | |
| MTBE | | | | | | | |
| Anthracene | | | | | | | |
| Benzo(a)anthracene | | | | | | | |
| Benzo(a)pyrene | | | | | | | |
| Benzo(b) fluoranthene | | | | | | | |
| Benzo(k)fluoranthene | | | | | | | |
| Benzo(g,h,i)perylene | | | | | | | |
| Chrysene | | | | | | | |
| Fluoranthene | | | | | | | |
| Fluorene | | | | | | | |
| Naphthalene | | | | | | | |
| Phenanthrene | | | | | | | |
| Pyrene | | | | | | | |
| | | | | | | | |
| Lead | | | | | | | |

Note: Attach additional tables as needed based on number of groundwater samples or variations in sampling dates.

- d. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

7. SUMMARY OF SOIL ANALYTICAL DATA

a. Provide the analytical data obtained from the site in the following tables:

TANK PIT SAMPLES:

Date of Sampling: _____

| Sample #: | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| | mg/kg |
| <u>TPH OPTION:</u> | | | | | | | |
| TPH | | | | | | | |
| Lead | | | | | | | |
| | | | | | | | |
| <u>COC OPTION:</u> | | | | | | | |
| Benzene | | | | | | | |
| Ethylbenzene | | | | | | | |
| Toluene | | | | | | | |
| Xylenes | | | | | | | |
| MTBE | | | | | | | |
| Anthracene | | | | | | | |
| Benzo(a)anthracene | | | | | | | |
| Benzo(a)pyrene | | | | | | | |
| Benzo(b) fluoranthene | | | | | | | |
| Benzo(k)fluoranthene | | | | | | | |
| Benzo(g,h,i)perylene | | | | | | | |
| Chrysene | | | | | | | |
| Fluoranthene | | | | | | | |
| Fluorene | | | | | | | |
| Naphthalene | | | | | | | |
| Phenanthrene | | | | | | | |
| Pyrene | | | | | | | |
| | | | | | | | |
| Lead | | | | | | | |

Note: Attach additional tables as needed based on number of soil samples or variations in sampling dates.

PIPING & DISPENSER SAMPLES:

Date of 7/25/00
 Sampling: _____

| Sample #: | LD0015 | LD0016 | | | | | |
|------------------------|-----------------|-----------------|-------|-------|-------|-------|-------|
| | 10' west of pad | 19' west of pad | | | | | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| TPH OPTION: | | | | | | | |
| TPH | | | | | | | |
| Lead | | | | | | | |
| COC OPTION: | | | | | | | |
| Benzene | ND | ND | | | | | |
| Ethylbenzene | ND | ND | | | | | |
| Toluene | ND | ND | | | | | |
| Xylenes | ND | ND | | | | | |
| MTBE | | | | | | | |
| Acenaphthene | ND | ND | | | | | |
| Acenaphthylene | ND | ND | | | | | |
| Anthracene | ND | 0.077J | | | | | |
| Benzo(a)anthracene | 0.002J | 0.08 | | | | | |
| Benzo(a)pyrene | 0.024 | 0.34 | | | | | |
| Benzo(b) fluoranthene | 0.0026J | 0.2 | | | | | |
| Benzo(k)fluoranthene | ND | 0.14 | | | | | |
| Benzo(g,h,i)perylene | 0.0049J | 0.14 | | | | | |
| Chrysene | 0.0034J | 0.17 | | | | | |
| Dibenz(a,h)anthracene | ND | 0.013J | | | | | |
| Fluoranthene | 0.0085 | 0.25 | | | | | |
| Fluorene | ND | ND | | | | | |
| Indeno(1,2,3-cd)pyrene | .0077 | 0.150 | | | | | |
| Naphthalene | ND | ND | | | | | |
| Phenanthrene | ND | ND | | | | | |
| Pyrene | 0.0032J | 0.23 | | | | | |
| Lead | 18.2 | 60.0 | | | | | |

J – Estimated Result. Result is less than reporting limit.
 ND – Analyte not detected above the method detection limit.

Note: Attach additional tables as needed based on number of soil samples or variations in sampling dates.

b. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

e. Indicate current method and location of soil management and/or treatment prior to final disposal:

f. Check the method of soil disposal used or to be used:

- Return to the excavation pit only when TPH is less than or equal to 100 ppm and depth of groundwater is greater than 5 feet from the base of the pit.
- Spread in a thin layer (6" or less) on site only when TPH is less than or equal to 100 ppm
- Disposal in a landfill (See attached "Guidelines for the Disposal of Non-Hazardous Petroleum Contaminated Wastes").
- Incineration.
- Thermal volatilization.
- Recycling facility
- Other _____

g. If soil was disposed of prior to the submittal of this form, indicate the final destination below and attach copies of invoices, receipts, and "certificate of burn" (if soil was incinerated):

9. TANK CLEANING: N/A

a. The tank(s) were cleaned in accordance with American Petroleum Institute (API) Bulletin 2015 "Cleaning Petroleum Storage Tanks"? YES NO NA

If no, describe how tank(s) were cleaned:

No tanks were identified during investigative dig.

b. Provide an estimate of the volume of sludge removed from the tank: NA Gallons

c. Indicate the final destination of the sludge and attach invoices or receipts:

10. ATTACHMENTS

Attach the following to the closure form in the following order as applicable to the type of closure site assessment performed. Check each box to indicate that a particular map or information is attached to the closure site assessment form. The section of the closure site assessment form that indicates the required attachment is shown.

| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Topographic Map showing location of site (Section 2.a., 3.a., 4.a., & 5.a.) |
| <input checked="" type="checkbox"/> | Area map showing general location of the site. Include land use on-site and within 500' of site. (Section 1) |
| <input type="checkbox"/> | Include locations of domestic and public water supply wells, and surface water intakes (Section 1) |
| <input checked="" type="checkbox"/> | Plan and sectional views of the site including the following: (Section 2.b., 3.b., 4.b., & 5.b.) |
| <input type="checkbox"/> | Location of the closed tanks and piping including depth. Include any remaining tanks or piping at site. Include tank identification numbers. |
| <input type="checkbox"/> | Excavation dimensions of the tank system |
| <input checked="" type="checkbox"/> | Locations of soil samples taken for piping and tank which includes the analytical results. |
| <input type="checkbox"/> | Location of areas of visible contamination |
| <input type="checkbox"/> | Location of any stockpiled excavated soil |
| <input type="checkbox"/> | Location of soil borings for an in-place closure |
| <input type="checkbox"/> | The location and depth of the one up-gradient and 3 down-gradient borings or monitoring wells (Section 6.a.) |
| <input type="checkbox"/> | Map illustrating the most probable direction of groundwater flow (Section 6.a.) |
| <input type="checkbox"/> | Schematic diagrams of the monitoring wells installed (Section 6.b.) |
| <input type="checkbox"/> | Boring logs of soil borings (Section 3.b., 5.b. & 6.b.) |
| <input type="checkbox"/> | Site Classification Checklist |
| <input type="checkbox"/> | Invoices and/or receipts for sludge disposal (Section 9.c.) |
| <input checked="" type="checkbox"/> | Invoices, manifests and certificates of burn or disposal for soil disposal (Section 8.f.) |
| <input checked="" type="checkbox"/> | Attach the original chain of custody record (copies are not acceptable) for each sample which includes at least the following: (Sections 6.d., 7.b., & 8.c.) |
| <input checked="" type="checkbox"/> | Sample identification number, |
| <input checked="" type="checkbox"/> | Date and time sample was taken, |
| <input checked="" type="checkbox"/> | Name and title of person collecting sample (see certification requirement on page 15 of this form), |
| <input checked="" type="checkbox"/> | Type of sample (soil or water), |
| <input checked="" type="checkbox"/> | Type of sample container, |
| <input checked="" type="checkbox"/> | Method of preservation, |
| <input checked="" type="checkbox"/> | Date and time sample was relinquished, |
| <input checked="" type="checkbox"/> | Person relinquishing sample, |
| <input checked="" type="checkbox"/> | Date and time sample was received by lab, |
| <input checked="" type="checkbox"/> | Person receiving sample at lab. |
| <input checked="" type="checkbox"/> | Attach the original laboratory data sheet (copies are not acceptable) which includes at least the following: (Sections 6.d., 7.b., & 8.c.) |
| <input checked="" type="checkbox"/> | A sample identification number which can be cross referenced with the soil sample locations indicated on the plan and sectional views required by Section 2.b., 3.b., 4.b., or 5.b. above |
| <input checked="" type="checkbox"/> | The sample analytical results with appropriate units, |
| <input checked="" type="checkbox"/> | The method used to analyze each sample, |
| <input checked="" type="checkbox"/> | The date and time the sample was analyzed, |
| <input checked="" type="checkbox"/> | The person analyzing the sample. |

11. SIGNATURES

This form should be completed, signed, and returned, along with any other pertinent information, to the following address:

The Alabama Department of Environmental Management
Groundwater Branch
Post Office Box 301463
Montgomery, AL 36130-1463
(334) 270-5655

INCOMPLETE FORMS WILL BE RETURNED FOR CORRECTION.

Name of person taking soil and/or groundwater samples: James R. Messer

Company: IT Corporation

Telephone Number: 256-848-3499

I certify under penalty of law that I have obtained representative soil and/or groundwater samples using accepted sampling procedures.

Signature: _____ Date: _____

Either a Geologist or an Alabama Registered Professional Engineer must sign this form:

I certify under penalty of law that I have performed this closure site assessment in accordance with accepted soil and groundwater investigation practices; I am either a Geologist or an Alabama Registered Professional Engineer; I am experienced in soil and groundwater investigations; and the information I have submitted, to the best of my knowledge and belief, is true, accurate, and complete.

Signature of Geologist: _____ Date: _____

Signature of Alabama Registered Professional Engineer: David B. Tester, P.E. _____ Date: 10/19/01

Alabama P.E. Registration Number: 23633

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature of Tank Owner: _____ Date: _____

| | |
|--------------------------|------------------------|
| FOR ADEM OFFICE USE ONLY | |
| TO: _____ | FROM: _____ |
| Air Division | UST Compliance Section |

**ADEM UST CLOSURE
TOTAL POTENTIAL VOC EMISSIONS CALCULATIONS**

| | | | |
|---|-------------------------------|----------------------|-------------------------------|
| FACILITY I.D. NO.: | NA | DATE OF THIS REPORT: | 8/30/00 |
| INCIDENT NO. (If applicable): UST ___ - ___ - ___ | | UST OWNER: U.S. Army | |
| FACILITY COUNTY: | Calhoun | ADDRESS: | Ft. McClellan Anniston, AL |
| FACILITY NAME: | Parcel 16 | CONTACT NAME: | _____ |
| LOCATION: | A-2(2) | CONTACT PHONE #: | _____ |
| ADDRESS: | Ft. McClellan Anniston, AL | | |

Name of Consultant who performed calculations: James R. Messer
 Consultant's Phone Number: 256-848-3499

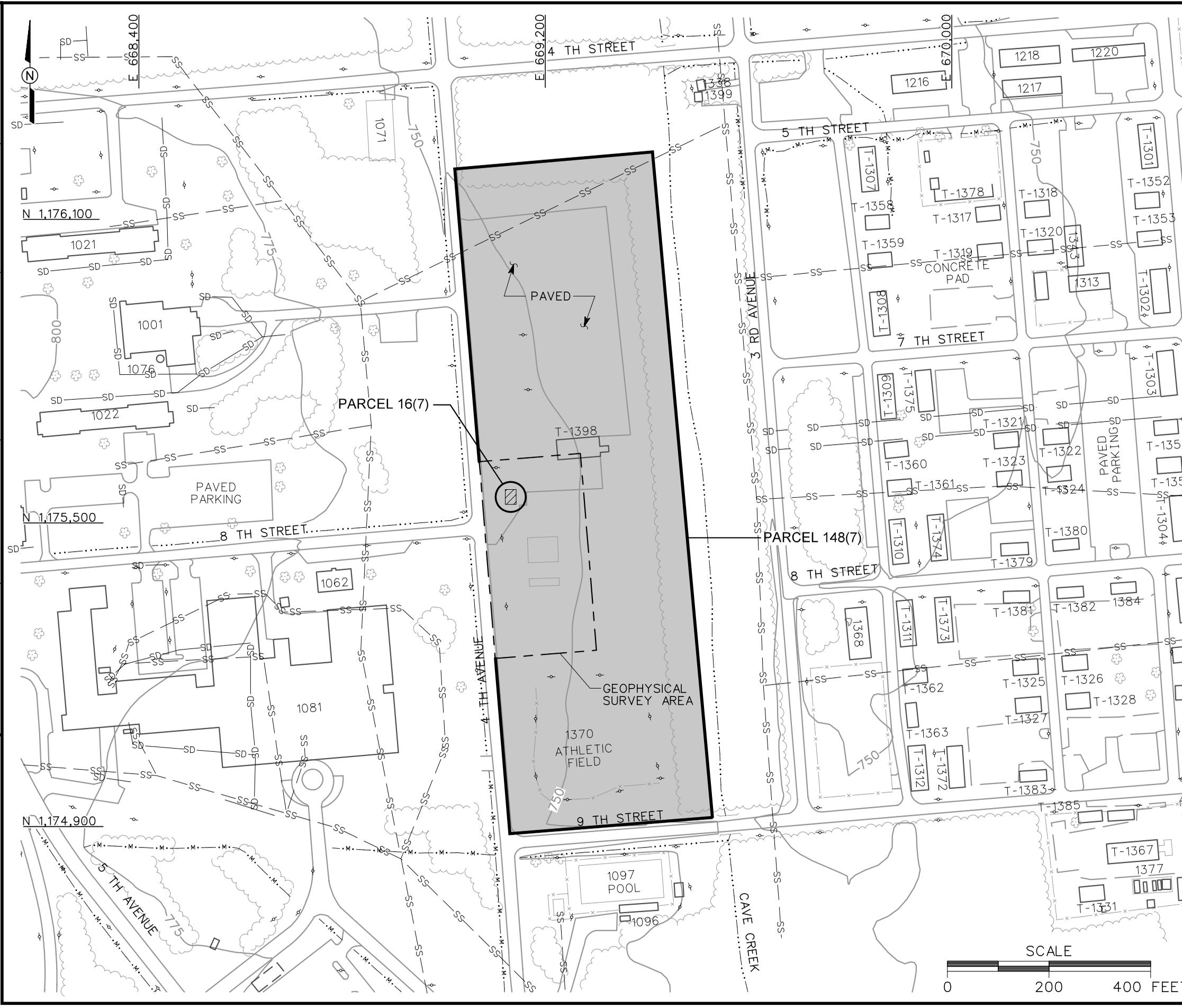
| | a | ppm x | b | cyds x .002 = | c | lbs. VOC emissions |
|-----------|-------|-------|-------|---------------|-------|--------------------|
| Sample 1 | 30 | ppm x | 3 | cyds x .002 = | 0.18 | lbs. VOC emissions |
| Sample 2 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 3 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 4 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 5 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 6 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 7 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 8 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 9 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 10 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 11 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 12 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 13 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 14 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |
| Sample 15 | _____ | ppm x | _____ | cyds x .002 = | _____ | lbs. VOC emissions |

TOTAL POTENTIAL EMISSIONS = 0.18 lbs. VOC emissions

*** NOTE - If more samples are taken than indicated on this form, please attach additional pages as necessary.
 This form must be completed and submitted with the ADEM UST Closure Site Assessment Report Form.**

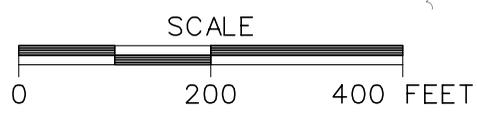
FIGURES

DWG. NO.: ...783149.es.159
 PROJ. NO.: 783149
 INITIATOR: J. BOND
 PROJ. MGR.: J. YACOUB
 DRAFT. CHCK. BY:
 ENGR. CHCK. BY: J. JENKINS
 DATE LAST REV.:
 DRAWN BY:
 STARTING DATE: 02/06/01
 DRAWN BY: D. BOMAR
 02/07/01
 04:51:41
 DBILLING
 c:\cadd\design\783149.es.159

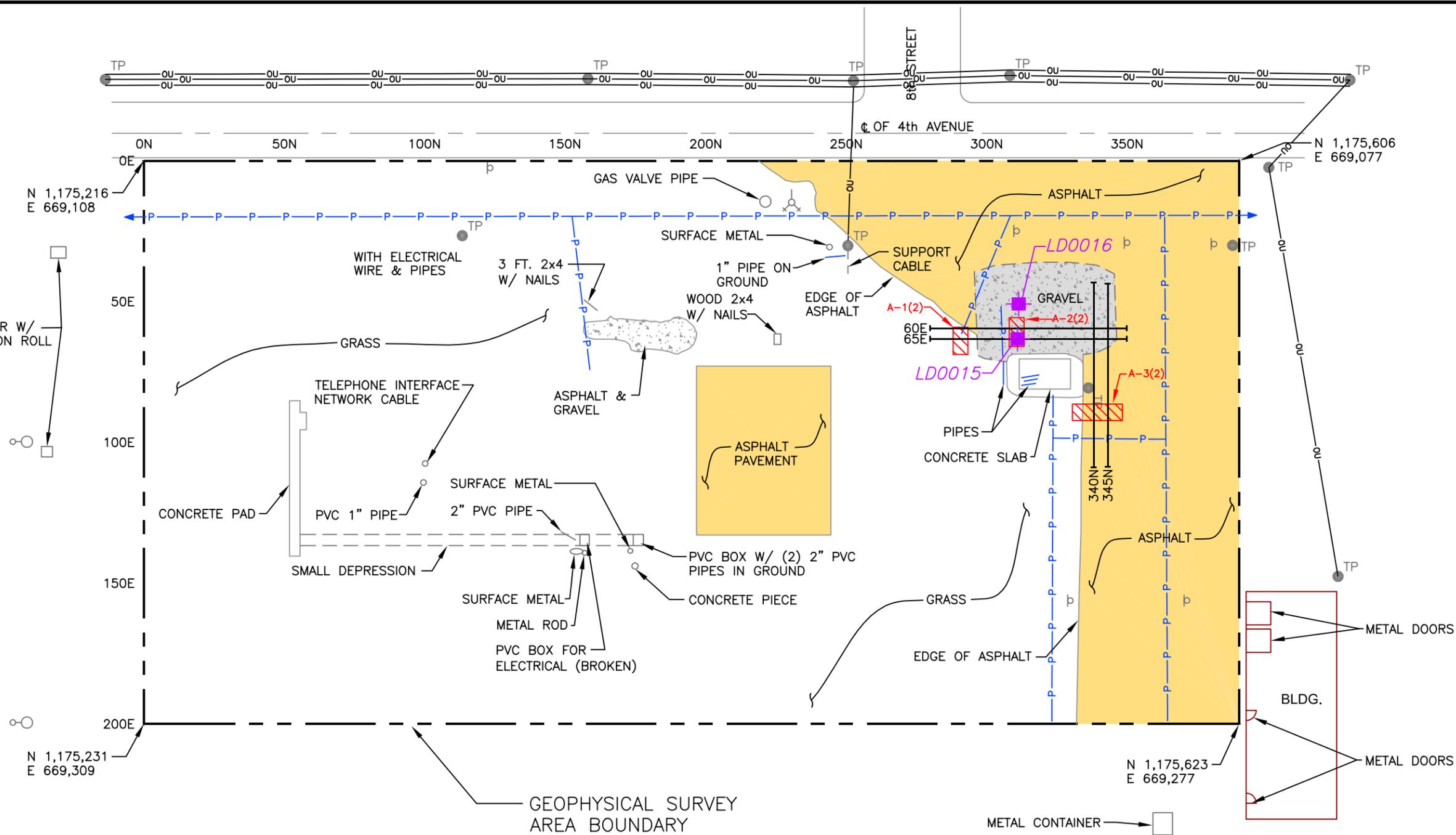


- LEGEND**
- UNIMPROVED ROADS AND PARKING
 - PAVED ROADS AND PARKING
 - BUILDING
 - TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
 - TREES / TREELINE
 - PARCEL BOUNDARY
 - EXTENT OF GEOPHYSICAL SURVEY
 - SURFACE DRAINAGE / CREEK
 - MANMADE SURFACE DRAINAGE FEATURE
 - FENCE
 - UTILITY POLE
 - SANITARY SEWER LINE
 - STORM DRAINAGE LINE

FIGURE B-1
 SITE MAP, PARCEL 16(7)
 FORMER GAS STATION,
 BUILDING 1394
 AT FORMER MOTOR POOL 1300
 PARCEL 148(7)
 U. S. ARMY CORPS OF ENGINEERS
 MOBILE DISTRICT
 FORT McCLELLAN
 CALHOUN COUNTY, ALABAMA
 Contract No. DACA21-96-D-0018



DRAWING NUMBER 783149-160.DWG
 CHECKED BY MM
 APPROVED BY JH
 MSN 02/16/01
 DRAWN BY



LEGEND

- GEOPHYSICAL ANOMALY
- A-1(2)
- TP TELEPHONE POLE
- LIGHT POLE
- METAL SIGN POST
- FIRE HYDRANT
- OVERHEAD UTILITIES
- LOCATION OF BURIED PIPE OR UTILITY
- 65E GPR PROFILES PRESENTED
- ALABAMA EAST STATE PLANE COORDINATES (NAD83)
- SOIL SAMPLE LOCATION

NOTES: 1) LOCATIONS OF FEATURES OUTSIDE SURVEY AREA ARE APPROXIMATE

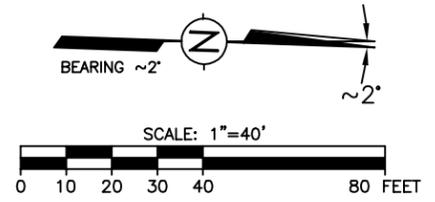


FIGURE B-2
 SITE MAP WITH SAMPLE LOCATIONS AND GEOPHYSICAL INTERPRETATION FOR PARCEL 16(7), FORMER GAS STATION, BUILDING 1394, AT FORMER MOTOR POOL AREA 1300, PARCEL 148(7)

U.S. ARMY CORPS OF ENGINEERS
 MOBILE DISTRICT
 FORT McCLELLAN
 CALHOUN COUNTY, ALABAMA
 Contract No. DACA21-96-D-0018



UST INVESTIGATION PHOTOGRAPHS

UST INVESTIGATION

**Former Gas Station Building 1394, Parcel 16(7) at Former Motor Pool Area 1300, Parcel 148(7)
Project No. 783149; Task Order CK08; Modification No. 2; Contract Number DACA21-96-D-0018**



Photo 1: Anomaly A-2(2). Pre-dig conditions. Facing northeast.



Photo 2: Anomaly A-2(2). Trench and exposed piping. Facing east.

UST INVESTIGATION

**Former Gas Station Building 1394, Parcel 16(7) at Former Motor Pool Area 1300, Parcel 148(7)
Project No. 783149; Task Order CK08; Modification No. 2; Contract Number DACA21-96-D-0018**



Photo 1: Anomaly A-2(2). Pre-dig conditions. Facing northeast.



Photo 2: Anomaly A-2(2). Trench and exposed piping. Facing east.

ANALYTICAL RESULTS

| | |
|--|-----------|
| H0G260167 / UST16A01 Analytical Report..... | 1 |
| Sample Receipt Documentation..... | 36 |
| Invoice | 43 |
| Total # of Pages | 43 |



STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 783149

FIMC

Lot #: H0G260167

Duane Nielsen

**IT Corp - Ft. McClellan
312 Directors Drive
Knoxville, TN 37923**

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "John Reynolds". The signature is fluid and cursive, with a long horizontal stroke at the end.

John Reynolds
Project Manager

August 7, 2000

SAMPLE SUMMARY

HOG260167

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-------------|----------------|-------------------------|-------------|-------------|
| DGTFK | 001 | LD0008 | 07/25/00 | 13:30 |
| DGTFQ | 002 | LD0009 | 07/25/00 | 13:45 |
| DGTG2 | 003 | LD0015 | 07/25/00 | 08:45 |
| DGTG4 | 004 | LD0016 | 07/25/00 | 09:00 |
| DGTGA | 005 | LD8001 | 07/25/00 | 09:00 |
| DGTGK | 006 | LD8002 | 07/25/00 | 09:15 |

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ANALYTICAL METHODS SUMMARY

HOG260167

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> |
|---|------------------------------|
| Extractable Petroleum Hydrocarbons | SW846 8015B |
| Paint Filter Test | SW846 9095 |
| Polynuclear Aromatic Hydrocarbons by HPLC | SW846 8310 |
| Total Residue as Percent Solids | MCAWW 160.3 MOD |
| Volatile Petroleum Hydrocarbons | SW846 8015B |
| Volatiles by GC | SW846 8021B |

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

HOG260167

The results reported herein are applicable to the samples submitted for analysis only.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

The samples associated with this lot were shipped directly from the collection site to STL Tampa East.

Subcontract

The following analyses were performed by STL Tampa East, 5910 Breckenridge Parkway, Tampa, FL 33601: Percent Solids (MCAWW 160.3 MOD), Gasoline and Diesel Range Organics (SW846 8015B), Paint Filter Test (SW846 9095), Polynuclear Aromatic Hydrocarbons (SW846 8310) and BTEX (SW846 8021B).

Quality Control

All holding times and QC criteria were met with the following exceptions:

Diesel Range Organics

The surrogate recovery of tetratriacontane in samples LD8001 and LD8002 were outside established control limits. Per Duane Nielsen of The IT Group, the lab was instructed to report the sample results as is.

BTEX

The surrogate recovery of 4-bromofluorobenzene in sample LD0008 was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

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STL Knoxville (formerly Quanterra Incorporated), Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE

HOG260167

Polynuclear Aromatic Hydrocarbons

The surrogate recoveries of carbazole in samples LD0008, LD0009, LD0016 were not calculated because the extract was diluted beyond the ability to quantitate a recovery.

The RPDs for several compounds in the laboratory control sample duplicate were outside the established control limits. However, all spike analyte recoveries were acceptable.

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STL Knoxville (formerly Quanterra Incorporated), Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8001

GC Semivolatiles

Lot-Sample #....: HOG260167-005 Work Order #....: DGTGA102 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0208576
 Dilution Factor: 2
 % Moisture.....: 9.5 Method.....: SW846 8015B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
|-----------------------|-----------------------------|----------------------------|--------------|------------|
| Diesel Range Organics | 380 | 22 | mg/kg | 6.2 |
| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | | |
| Tetratriacontane | 142 * | (25 - 113) | | |

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8002

GC Semivolatiles

Lot-Sample #....: HOG260167-006 Work Order #....: DGTGK102 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0208576
 Dilution Factor: 1
 % Moisture.....: 13 Method.....: SW846 8015B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
|-----------------------|-------------------------|------------------------|--------------|------------|
| Diesel Range Organics | 30 | 11 | mg/kg | 3.2 |
| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | | |
| Tetratriacontane | 123 * | (25 - 113) | | |

NOTE (S) :

* Surrogate recovery is outside stated control limits.
 Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H0G260167 Work Order #...: DGVQT101 Matrix.....: SOLID
 MB Lot-Sample #: B0G260000-576
 Prep Date.....: 07/26/00
 Analysis Date...: 07/28/00 Prep Batch #...: 0208576
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | <u>METHOD</u> |
|-----------------------|-----------------|------------------|--------------|---------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | |
| Diesel Range Organics | ND | 10 | mg/kg | SW846 8015B |
| | <u>PERCENT</u> | <u>RECOVERY</u> | | |
| | <u>RECOVERY</u> | <u>LIMITS</u> | | |
| Tetratriacontane | 98 | (25 - 113) | | |

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: H0G260167 Work Order #....: DGVQT102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G260000-576 DGVQT103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0208576
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u> |
|-----------------------|---------------------|------------------------|--------------|-------------------------|------------|---------------|
| Diesel Range Organics | 59.2 | 64.1 | mg/kg | 108 | | SW846 8015B |
| | 59.2 | 67.2 | mg/kg | 114 | 4.8 | SW846 8015B |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|------------------|-------------------------|------------------------|
| Tetratriacontane | 108 | (25 - 113) |
| | 109 | (25 - 113) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: H0G260167 Work Order #....: DGVQT102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G260000-576 DGVQT103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0208576
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|-----------------------|-----------------------------|----------------------------|------------|-----------------------|--------------------|
| Diesel Range Organics | 108 | (35 - 115) | | | SW846 8015B |
| | 114 | (35 - 115) | 4.8 | (0-34) | SW846 8015B |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|------------------|-----------------------------|----------------------------|
| Tetratriacontane | 108 | (25 - 113) |
| | 109 | (25 - 113) |

NOTE(S) :

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

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8001

GC Volatiles

Lot-Sample #....: HOG260167-005 Work Order #....: DGTGA103 Matrix.....: SOLID
 Date Sampled...: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #....: 0209248
 Dilution Factor: 1
 % Moisture.....: 9.5 Method.....: SW846 8015B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
|-------------------------|-----------------------------|----------------------------|--------------|------------|
| Gasoline Range Organics | 110 | 5.5 | mg/kg | 0.47 |
| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | | |
| 4-Bromofluorobenzene | 61 | (39 - 163) | | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8002

GC Volatiles

Lot-Sample #...: HOG260167-006 Work Order #...: DGTGK103 Matrix.....: SOLID
 Date Sampled...: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #...: 0209248
 Dilution Factor: 1
 % Moisture.....: 13 Method.....: SW846 8015B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
|-------------------------|-----------------------------|----------------------------|--------------|------------|
| Gasoline Range Organics | ND | 5.7 | mg/kg | 0.49 |
| | | | | |
| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | | |
| 4-Bromofluorobenzene | 82 | (39 - 163) | | |

NOTE (S) :

 Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: HOG260167 Work Order #...: DGWCN101 Matrix.....: SOLID
 MB Lot-Sample #: B0G270000-248
 Analysis Date...: 07/26/00 Prep Date.....: 07/26/00
 Dilution Factor: 1 Prep Batch #...: 0209248

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-------------------------|-----------------------------|----------------------------|--------------|---------------|
| Gasoline Range Organics | ND | 5.0 | mg/kg | SW846 8015B |
| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | | |
| 4-Bromofluorobenzene | 77 | (39 - 163) | | |

NOTE(S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: H0G260167 Work Order #....: DGWCN102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-248 DGWCN103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/26/00
 Prep Batch #....: 0209248
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>SPIKE</u> <u>AMOUNT</u> | <u>MEASURED</u> <u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u> <u>RECOVERY</u> | <u>RPD</u> | <u>METHOD</u> |
|-------------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|------------|---------------|
| Gasoline Range Organics | 20.0 | 16.9 | mg/kg | 85 | | SW846 8015B |
| | 20.0 | 17.8 | mg/kg | 89 | 5.3 | SW846 8015B |

| <u>SURROGATE</u> | <u>PERCENT</u> <u>RECOVERY</u> | <u>RECOVERY</u> <u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 90 | (39 - 163) |
| | 86 | (39 - 163) |

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: H0G260167 Work Order #....: DGWCN102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-248 DGWCN103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/26/00
 Prep Batch #....: 0209248
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|-------------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Gasoline Range Organics | 85 | (26 - 115) | | | SW846 8015B |
| | 89 | (26 - 115) | 5.3 | (0-25) | SW846 8015B |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 90 | (39 - 163) |
| | 86 | (39 - 163) |

NOTE(S) :

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

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0008

GC Volatiles

Lot-Sample #....: H0G260167-001 Work Order #....: DGTFK104 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #....: 0209451
 Dilution Factor: 25
 % Moisture.....: 9.7 Method.....: SW846 8021B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | |
|------------------|---------------|------------------|--------------|------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
| Benzene | 3600 | 1400 | ug/kg | 500 |
| Ethylbenzene | 37000 | 1400 | ug/kg | 610 |
| Toluene | 71000 | 1400 | ug/kg | 390 |
| Xylenes (total) | 250000 | 1400 | ug/kg | 1300 |

| <u>SURROGATE</u> | <u>PERCENT</u> | <u>RECOVERY</u> |
|----------------------|-----------------|-----------------|
| | <u>RECOVERY</u> | <u>LIMITS</u> |
| 4-Bromofluorobenzene | NC,SRD | (46 - 143) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLLELLAN

Client Sample ID: LD0009

GC Volatiles

Lot-Sample #....: H0G260167-002 Work Order #....: DGTFQ104 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0209451
 Dilution Factor: 2
 % Moisture.....: 16 Method.....: SW846 8021B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
|------------------|---------------|----------------------------|--------------|------------|
| Benzene | ND | 120 | ug/kg | 43 |
| Ethylbenzene | 3200 | 120 | ug/kg | 52 |
| Toluene | ND | 120 | ug/kg | 33 |
| Xylenes (total) | 12000 | 120 | ug/kg | 110 |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 142 | (46 - 143) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0015

GC Volatiles

Lot-Sample #....: H0G260167-003 Work Order #....: DGTG2104 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #....: 0209451
 Dilution Factor: 1
 % Moisture.....: 17 Method.....: SW846 8021B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>LIMIT</u> | <u>UNITS</u> | <u>MDL</u> |
|------------------|---------------|--------------|--------------|------------|
| Benzene | ND | 60 | ug/kg | 22 |
| Ethylbenzene | ND | 60 | ug/kg | 27 |
| Toluene | ND | 60 | ug/kg | 17 |
| Xylenes (total) | ND | 60 | ug/kg | 57 |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 109 | (46 - 143) |

NOTE(S) :

 Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0016

GC Volatiles

Lot-Sample #....: H0G260167-004 Work Order #....: DGTG4104 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #....: 0209451
 Dilution Factor: 1
 % Moisture.....: 19 Method.....: SW846 8021B

| PARAMETER | RESULT | REPORTING | | |
|----------------------|-----------------|---------------|-------|-----|
| | | LIMIT | UNITS | MDL |
| Benzene | ND | 62 | ug/kg | 22 |
| Ethylbenzene | ND | 62 | ug/kg | 27 |
| Toluene | ND | 62 | ug/kg | 17 |
| Xylenes (total) | ND | 62 | ug/kg | 58 |
| | PERCENT | RECOVERY | | |
| <u>SURROGATE</u> | <u>RECOVERY</u> | <u>LIMITS</u> | | |
| 4-Bromofluorobenzene | 100 | (46 - 143) | | |

NOTE (S) :

 Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: H0G260167
MB Lot-Sample #: B0G270000-451

Work Order #....: DGXA9101

Matrix.....: SOLID

Analysis Date...: 07/26/00
Dilution Factor: 1

Prep Date.....: 07/26/00
Prep Batch #....: 0209451

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | |
|----------------------|-----------------|------------------|--------------|---------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
| Benzene | ND | 50 | ug/kg | SW846 8021B |
| Ethylbenzene | ND | 50 | ug/kg | SW846 8021B |
| Toluene | ND | 50 | ug/kg | SW846 8021B |
| Xylenes (total) | ND | 50 | ug/kg | SW846 8021B |
| | <u>PERCENT</u> | <u>RECOVERY</u> | | |
| <u>SURROGATE</u> | <u>RECOVERY</u> | <u>LIMITS</u> | | |
| 4-Bromofluorobenzene | 100 | (46 - 143) | | |

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: H0G260167 Work Order #...: DGXA9102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-451 DGXA9103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/26/00
 Prep Batch #...: 0209451
 Dilution Factor: 1

| PARAMETER | SPIKE | MEASURED | | PERCENT | | METHOD |
|----------------------|--------|----------|-------|-----------------|---------------|-------------|
| | AMOUNT | AMOUNT | UNITS | RECOVERY | RPD | |
| Benzene | 1000 | 952 | ug/kg | 95 | | SW846 8021B |
| | 1000 | 997 | ug/kg | 100 | 4.6 | SW846 8021B |
| Ethylbenzene | 1000 | 1060 | ug/kg | 106 | | SW846 8021B |
| | 1000 | 1050 | ug/kg | 105 | 1.0 | SW846 8021B |
| Toluene | 1000 | 996 | ug/kg | 100 | | SW846 8021B |
| | 1000 | 1010 | ug/kg | 101 | 1.7 | SW846 8021B |
| m-Xylene & p-Xylene | 2000 | 2130 | ug/kg | 107 | | SW846 8021B |
| | 2000 | 2140 | ug/kg | 107 | 0.39 | SW846 8021B |
| o-Xylene | 1000 | 1040 | ug/kg | 104 | | SW846 8021B |
| | 1000 | 1050 | ug/kg | 105 | 1.2 | SW846 8021B |
| | | | | PERCENT | RECOVERY | |
| <u>SURROGATE</u> | | | | <u>RECOVERY</u> | <u>LIMITS</u> | |
| 4-Bromofluorobenzene | | | | 109 | (46 - 143) | |
| | | | | 110 | (46 - 143) | |

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: H0G260167 Work Order #....: DGXA9102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-451 DGXA9103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/26/00
 Prep Batch #....: 0209451
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|---------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Benzene | 95 | (62 - 128) | | | SW846 8021B |
| | 100 | (62 - 128) | 4.6 | (0-30) | SW846 8021B |
| Ethylbenzene | 106 | (66 - 119) | | | SW846 8021B |
| | 105 | (66 - 119) | 1.0 | (0-20) | SW846 8021B |
| Toluene | 100 | (73 - 123) | | | SW846 8021B |
| | 101 | (73 - 123) | 1.7 | (0-20) | SW846 8021B |
| m-Xylene & p-Xylene | 107 | (70 - 130) | | | SW846 8021B |
| | 107 | (70 - 130) | 0.39 | (0-20) | SW846 8021B |
| o-Xylene | 104 | (70 - 130) | | | SW846 8021B |
| | 105 | (70 - 130) | 1.2 | (0-20) | SW846 8021B |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 109 | (46 - 143) |
| | 110 | (46 - 143) |

NOTE (S) :

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

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0008

HPLC

Lot-Sample #....: HOG260167-001 Work Order #....: DGTFK101 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0208575
 Dilution Factor: 100
 % Moisture.....: 9.7 Method.....: SW846 8310

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|----------------------------|--------|-----------------|-------|------|
| Acenaphthene | ND | 5500 | ug/kg | 550 |
| Acenaphthylene | ND | 5500 | ug/kg | 710 |
| Anthracene | ND | 5500 | ug/kg | 370 |
| Benzo (a) anthracene | 2000 | 550 | ug/kg | 110 |
| Benzo (a) pyrene | 2500 | 550 | ug/kg | 93 |
| Benzo (b) fluoranthene | 1600 | 550 | ug/kg | 86 |
| Benzo (ghi) perylene | ND | 550 | ug/kg | 120 |
| Benzo (k) fluoranthene | 1500 | 550 | ug/kg | 55 |
| Chrysene | 2500 | 550 | ug/kg | 97 |
| Dibenz (a, h) anthracene | ND | 550 | ug/kg | 92 |
| Fluoranthene | 8500 | 550 | ug/kg | 97 |
| Fluorene | 3700 J | 5500 | ug/kg | 1000 |
| Indeno (1, 2, 3-cd) pyrene | ND | 550 | ug/kg | 78 |
| Naphthalene | 20000 | 5500 | ug/kg | 1900 |
| Phenanthrene | 12000 | 5500 | ug/kg | 1100 |
| Pyrene | 4700 | 550 | ug/kg | 99 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------|------------------|-----------------|
| Carbazole | NC, SRD | (17 - 115) |

NOTE (S) :

- NC The recovery and/or RPD were not calculated.
- SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.
- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0009

HPLC

Lot-Sample #....: H0G260167-002 Work Order #....: DGTFQ101 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0208575
 Dilution Factor: 100
 % Moisture.....: 16 Method.....: SW846 8310

| PARAMETER | RESULT | REPORTING | | |
|----------------------------|----------|------------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acenaphthene | ND | 6000 | ug/kg | 600 |
| Acenaphthylene | ND | 6000 | ug/kg | 760 |
| Anthracene | ND | 6000 | ug/kg | 390 |
| Benzo (a) anthracene | 1500 | 600 | ug/kg | 120 |
| Benzo (a) pyrene | 2100 | 600 | ug/kg | 100 |
| Benzo (b) fluoranthene | 1100 | 600 | ug/kg | 93 |
| Benzo (ghi) perylene | 660 | 600 | ug/kg | 130 |
| Benzo (k) fluoranthene | 930 | 600 | ug/kg | 60 |
| Chrysene | 2000 | 600 | ug/kg | 100 |
| Dibenz (a, h) anthracene | ND | 600 | ug/kg | 99 |
| Fluoranthene | 7800 | 600 | ug/kg | 100 |
| Fluorene | 1700 J | 6000 | ug/kg | 1100 |
| Indeno (1, 2, 3-cd) pyrene | 820 | 600 | ug/kg | 83 |
| Naphthalene | 2400 J | 6000 | ug/kg | 2000 |
| Phenanthrene | 4800 J | 6000 | ug/kg | 1100 |
| Pyrene | 4100 | 600 | ug/kg | 110 |
| | PERCENT | RECOVERY | | |
| SURROGATE | RECOVERY | LIMITS | | |
| Carbazole | NC, SRD | (17 - 115) | | |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0015

HPLC

Lot-Sample #...: HOG260167-003 Work Order #...: DGTG2101 Matrix.....: SOLID
 Date Sampled...: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #...: 0208575
 Dilution Factor: 1
 % Moisture.....: 17 Method.....: SW846 8310

| PARAMETER | RESULT | REPORTING | | |
|----------------------------|----------|------------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acenaphthene | ND | 60 | ug/kg | 6.0 |
| Acenaphthylene | ND | 60 | ug/kg | 7.7 |
| Anthracene | ND | 60 | ug/kg | 4.0 |
| Benzo (a) anthracene | 2.0 J | 6.0 | ug/kg | 1.2 |
| Benzo (a) pyrene | 24 | 6.0 | ug/kg | 1.0 |
| Benzo (b) fluoranthene | 2.6 J | 6.0 | ug/kg | 0.94 |
| Benzo (ghi) perylene | 4.9 J | 6.0 | ug/kg | 1.3 |
| Benzo (k) fluoranthene | ND | 6.0 | ug/kg | 0.60 |
| Chrysene | 3.4 J | 6.0 | ug/kg | 1.1 |
| Dibenz (a, h) anthracene | ND | 6.0 | ug/kg | 1.0 |
| Fluoranthene | 8.5 | 6.0 | ug/kg | 1.1 |
| Fluorene | ND | 60 | ug/kg | 11 |
| Indeno (1, 2, 3-cd) pyrene | 7.7 | 6.0 | ug/kg | 0.84 |
| Naphthalene | ND | 60 | ug/kg | 21 |
| Phenanthrene | ND | 60 | ug/kg | 12 |
| Pyrene | 3.2 J | 6.0 | ug/kg | 1.1 |
| | PERCENT | RECOVERY | | |
| SURROGATE | RECOVERY | LIMITS | | |
| Carbazole | 62 | (17 - 115) | | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0016

HPLC

Lot-Sample #...: HOG260167-004 Work Order #...: DGTG4101 Matrix.....: SOLID
 Date Sampled...: 07/25/00 Date Received...: 07/26/00
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #...: 0208575
 Dilution Factor: 5
 % Moisture.....: 19 Method.....: SW846 8310

| PARAMETER | RESULT | REPORTING | | |
|----------------------------|----------|------------|-------|-----|
| | | LIMIT | UNITS | MDL |
| Acenaphthene | ND | 310 | ug/kg | 31 |
| Acenaphthylene | ND | 310 | ug/kg | 39 |
| Anthracene | 77 J | 310 | ug/kg | 20 |
| Benzo (a) anthracene | 80 | 31 | ug/kg | 6.2 |
| Benzo (a) pyrene | 340 | 31 | ug/kg | 5.2 |
| Benzo (b) fluoranthene | 200 | 31 | ug/kg | 4.8 |
| Benzo (ghi) perylene | 140 | 31 | ug/kg | 6.8 |
| Benzo (k) fluoranthene | 140 | 31 | ug/kg | 3.1 |
| Chrysene | 170 | 31 | ug/kg | 5.4 |
| Dibenz (a, h) anthracene | 13 J | 31 | ug/kg | 5.1 |
| Fluoranthene | 250 | 31 | ug/kg | 5.4 |
| Fluorene | ND | 310 | ug/kg | 56 |
| Indeno (1, 2, 3-cd) pyrene | 150 | 31 | ug/kg | 4.3 |
| Naphthalene | ND | 310 | ug/kg | 100 |
| Phenanthrene | ND | 310 | ug/kg | 59 |
| Pyrene | 230 | 31 | ug/kg | 5.5 |
| | PERCENT | RECOVERY | | |
| SURROGATE | RECOVERY | LIMITS | | |
| Carbazole | NC, SRD | (17 - 115) | | |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

HPLC

Client Lot #...: H0G260167
 MB Lot-Sample #: B0G260000-575

Work Order #...: DGVQR101

Matrix.....: SOLID

Analysis Date...: 07/27/00
 Dilution Factor: 1

Prep Date.....: 07/26/00

Prep Batch #...: 0208575

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | <u>METHOD</u> |
|--------------------------|-----------------|------------------|--------------|---------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | |
| Acenaphthene | ND | 50 | ug/kg | SW846 8310 |
| Acenaphthylene | ND | 50 | ug/kg | SW846 8310 |
| Anthracene | ND | 50 | ug/kg | SW846 8310 |
| Benzo (a) anthracene | ND | 5.0 | ug/kg | SW846 8310 |
| Benzo (a) pyrene | ND | 5.0 | ug/kg | SW846 8310 |
| Benzo (b) fluoranthene | ND | 5.0 | ug/kg | SW846 8310 |
| Benzo (ghi) perylene | ND | 5.0 | ug/kg | SW846 8310 |
| Benzo (k) fluoranthene | ND | 5.0 | ug/kg | SW846 8310 |
| Chrysene | ND | 5.0 | ug/kg | SW846 8310 |
| Dibenz (a,h) anthracene | ND | 5.0 | ug/kg | SW846 8310 |
| Fluoranthene | ND | 5.0 | ug/kg | SW846 8310 |
| Fluorene | ND | 50 | ug/kg | SW846 8310 |
| Indeno (1,2,3-cd) pyrene | ND | 5.0 | ug/kg | SW846 8310 |
| Naphthalene | ND | 50 | ug/kg | SW846 8310 |
| Phenanthrene | ND | 50 | ug/kg | SW846 8310 |
| Pyrene | ND | 5.0 | ug/kg | SW846 8310 |
| | <u>PERCENT</u> | <u>RECOVERY</u> | | |
| <u>SURROGATE</u> | <u>RECOVERY</u> | <u>LIMITS</u> | | |
| Carbazole | 74 | (17 - 115) | | |

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H0G260167 Work Order #...: DGVQR102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G260000-575 DGVQR103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #...: 0208575
 Dilution Factor: 1

| PARAMETER | SPIKE | MEASURED | | PERCENT | | METHOD |
|---------------------|--------|----------|-------|----------|-----|------------|
| | AMOUNT | AMOUNT | UNITS | RECOVERY | RPD | |
| Acenaphthene | 333 | 175 | ug/kg | 52 | | SW846 8310 |
| | 333 | 234 | ug/kg | 70 | 29 | SW846 8310 |
| 1-Methylnaphthalene | 333 | 178 | ug/kg | 53 | | SW846 8310 |
| | 333 | 237 p | ug/kg | 71 | 29 | SW846 8310 |
| Chrysene | 33.3 | 19.9 | ug/kg | 60 | | SW846 8310 |
| | 33.3 | 26.7 p | ug/kg | 80 | 29 | SW846 8310 |
| Fluorene | 333 | 176 | ug/kg | 53 | | SW846 8310 |
| | 333 | 235 p | ug/kg | 71 | 29 | SW846 8310 |
| Naphthalene | 333 | 162 | ug/kg | 49 | | SW846 8310 |
| | 333 | 215 p | ug/kg | 65 | 28 | SW846 8310 |
| Pyrene | 33.3 | 19.1 | ug/kg | 57 | | SW846 8310 |
| | 33.3 | 24.6 | ug/kg | 74 | 25 | SW846 8310 |

| SURROGATE | PERCENT | RECOVERY |
|-----------|----------|------------|
| | RECOVERY | LIMITS |
| Carbazole | 53 | (17 - 115) |
| | 71 | (17 - 115) |

NOTE (S) :

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H0G260167 Work Order #...: DGVQR102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G260000-575 DGVQR103-LCSD
 Prep Date.....: 07/26/00 Analysis Date...: 07/27/00
 Prep Batch #...: 0208575
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|---------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Acenaphthene | 52 | (41 - 115) | | | SW846 8310 |
| | 70 | (41 - 115) | 29 | (0-30) | SW846 8310 |
| 1-Methylnaphthalene | 53 | (45 - 115) | | | SW846 8310 |
| | 71 p | (45 - 115) | 29 | (0-27) | SW846 8310 |
| Chrysene | 60 | (45 - 115) | | | SW846 8310 |
| | 80 p | (45 - 115) | 29 | (0-27) | SW846 8310 |
| Fluorene | 53 | (42 - 115) | | | SW846 8310 |
| | 71 p | (42 - 115) | 29 | (0-28) | SW846 8310 |
| Naphthalene | 49 | (28 - 116) | | | SW846 8310 |
| | 65 p | (28 - 116) | 28 | (0-26) | SW846 8310 |
| Pyrene | 57 | (46 - 115) | | | SW846 8310 |
| | 74 | (46 - 115) | 25 | (0-50) | SW846 8310 |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|------------------|-----------------------------|----------------------------|
| Carbazole | 53 | (17 - 115) |
| | 71 | (17 - 115) |

NOTE(S) :

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0008

General Chemistry

Lot-Sample #...: H0G260167-001

Work Order #...: DGTFK

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 9.7

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|--------------------|--------------|-----------------|---------------------------------------|-------------------------|
| Percent Solids | 90.3 | 0.10 | % | MCAWW 160.3 MOD | 07/27-07/28/00 | 0210130 |
| | | Dilution Factor: 1 | | MDL.....: 0.10 | | |

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0009

General Chemistry

Lot-Sample #....: HOG260167-002 Work Order #....: DGTFQ Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 % Moisture.....: 16

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|--------------------|--------------|-----------------|---------------------------------------|-------------------------|
| Percent Solids | 84.0 | 0.10 | % | MCAWW 160.3 MOD | 07/27-07/28/00 | 0210130 |
| | | Dilution Factor: 1 | | MDL.....: 0.10 | | |

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0015

General Chemistry

Lot-Sample #....: H0G260167-003 Work Order #....: DGTG2 Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 % Moisture.....: 17

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|--------------------|--------------|-----------------|---------------------------------------|-------------------------|
| Percent Solids | 82.9 | 0.10 | % | MCAWW 160.3 MOD | 07/27-07/28/00 | 0210130 |
| | | Dilution Factor: 1 | | MDL.....: 0.10 | | |

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0016

General Chemistry

Lot-Sample #...: HOG260167-004

Work Order #...: DGTG4

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 19

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|--------------------|--------------|-----------------|---------------------------------------|-------------------------|
| Percent Solids | 81.3 | 0.10 | % | MCAWW 160.3 MOD | 07/27-07/28/00 | 0210130 |
| | | Dilution Factor: 1 | | MDL.....: 0.10 | | |

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8001

General Chemistry

Lot-Sample #...: H0G260167-005

Work Order #...: DGTGA

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 9.5

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|-------------------|---------------|-----------|--------------------|-----------------|---------------------------------------|-------------------------|
| Paint Filter Test | NO | | No Units | SW846 9095 | 07/26/00 | 0209111 |
| | | | Dilution Factor: 1 | MDL.....: | | |
| Percent Solids | 90.5 | 0.10 | % | MCAWW 160.3 MOD | 07/27-07/28/00 | 0210130 |
| | | | Dilution Factor: 1 | MDL.....: 0.10 | | |

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8002

General Chemistry

Lot-Sample #....: H0G260167-006 Work Order #....: DGTGK Matrix.....: SOLID
 Date Sampled....: 07/25/00 Date Received...: 07/26/00
 % Moisture.....: 13

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|-------------------|---------------|-----------|--------------------|-----------------|---------------------------------------|-------------------------|
| Paint Filter Test | NO | | No Units | SW846 9095 | 07/26/00 | 0209111 |
| | | | Dilution Factor: 1 | MDL.....: | | |
| Percent Solids | 87.5 | 0.10 | % | MCAWW 160.3 MOD | 07/27-07/28/00 | 0210130 |
| | | | Dilution Factor: 1 | MDL.....: 0.10 | | |

Sample Delivery Group
Assignment Form

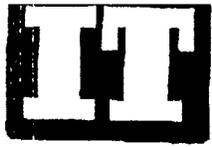
SDG# UST16A01

| * | DATE REC'D | LOT# | CLIENT ID | VOA | PAH | PEST | EXP | MET | PCB | PH | DRO | GRO | PAINT |
|----|------------|-----------|-----------|-------|------|-------|------|-------|------|------|------|------|--------|
| | | | | 8021B | 8310 | 8081A | 8330 | 6010B | 8082 | 9045 | 8015 | 8015 | FILTER |
| 1 | 7/26/00 | HOG260167 | LD0008 | T | T | | | | | | | | |
| 2 | | | LD0009 | T | T | | | | | | | | |
| 3 | | | LD0015 | T | T | | | | | | | | |
| 4 | | | LD0016 | T | T | | | | | | | | |
| 5 | | | LD8001 | | | | | | | | T | T | T |
| 6 | | | LD8002 | | | | | | | | T | T | T |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |

NC = NORTH CANTON
T = STL TAMPA
D = STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: SOIL
ANALYTICAL DUE: 7-28-00
REPORT DUE: 8-4-00
CLOSED? YES

8/11/008:04 AM



ITT CORPORATION

A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

H06260167

Reference Document No: 16-072500-QST

Page 1 of 2

Project Number: 783149

Samples Shipment Date: 25 JUL 2000

Bill To: Duane Nielsen

Project Name: Fort McClellan, SAD TERC

Lab Destination: QUANTERRA - TAMPA

312 Directors Drive

Knoxville

TN 37823

Sample Coordinator: Oliver Allen

Lab Contact: Michele Lersch

Report To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

Turnaround Time: 48 hour Turn

Project Contact: Randy McBride

Carrier/Waybill No.: Fed Ex 780866030598

Special Instructions: NONE

Possible Hazard Identification:

Non-hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal:

Return to Client Disposal by Lab Archive (mos.)

1. Relinquished By *D. K. Allen* Date: 25 July 00 Time: 1610

1. Received By Date: Time:

2. Relinquished By Date: Time:

2. Received By Date: Time:

3. Relinquished By Date: Time:

3. Received By Date: Time:

Comments: NONE 48 hour Turn

25476 UST14002

7-28 8-4

1.00008

| Sample No | Sample Name | Sample Date | Sample Time | Container | Ctr Qty | Preservative | Requested Testing Program | File CID | Condition On Receipt |
|-----------|-------------------------|-------------|-------------|------------|---------|-------------------------|---------------------------|----------|----------------------|
| LD0008 | 16A1-CS06 | 25 JUL 2000 | 13:30 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0008 | 16A1-CS06-CS-LD0008-REG | 25 JUL 2000 | 13:30 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |
| LD0008 | 16A1-CS07 | 24 JUL 2000 | 13:45 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0008 | 16A1-CS07-CS-LD0008-REG | 24 JUL 2000 | 13:45 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |
| LD0015 | 16A2-CS06 | 25 JUL 2000 | 08:45 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0015 | 16A2-CS06-CS-LD0015-REG | 25 JUL 2000 | 08:45 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |
| LD0018 | 16A2-CS07 | 25 JUL 2000 | 09:00 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0018 | 16A2-CS07-CS-LD0018-REG | 25 JUL 2000 | 09:00 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |



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100-0010)

| Sample No | Sample Name | Sample Date | Sample Time | Container | Preservative | Requested Testing Program | File CID | Condition On Receipt |
|-----------|------------------------------------|-------------|-------------|------------|---------------------------|----------------------------------|----------|----------------------|
| LD8001 | 301 JST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 8 oz CWM | 1 None except cool to 4 C | Diesel Range Organics by 8015B | N | |
| LD8001 | JST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 5 g EnCore | 3 None except cool to 4 C | Gasoline Range Organics by 8015B | N | |
| LD8001 | JST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 8 oz CWM | 1 None except cool to 4 C | Paint Filter | N | |
| LD8002 | JST-16A2-SP01-SP-LD8002-REG | 25 JUL 2000 | 09:15 | 5 g EnCore | 3 None except cool to 4 C | Gasoline Range Organics by 8015B | N | |
| LD8002 | JST-16A2-SP01-SP-LD8002-REG | 25 JUL 2000 | 09:15 | 8 oz CWM | 1 None except cool to 4 C | Lead by 6010B, Paint Filter | N | |
| LD8002 | JST-16A2-SP01-SP-LD8002-REG | 25 JUL 2000 | 09:15 | 8 oz CWM | 1 None except cool to 4 C | Diesel Range Organics by 8015B | N | |

SEVERN TRENT LABS

TAMPA LABORATORY CONDITION UPON RECEIPT FORM

Client (name or ID): KNOXVILLE

Project name: HOG 260167

Date received: 7/26/00

Lot number: _____

Received by: Carol McMulty

CUR completed by: Carol McMulty

Cooler/Shipping Information:

Type: Cooler Box Other (describe) _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| | | | | | |
|-------------------|----|--|--|--|--|
| Cooler ID/Track # | | | | | |
| Temp (°C) | 4° | | | | |
| Cooler ID/Track # | | | | | |
| Temp (°C) | | | | | |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below. If an NCM was initiated, write the NCM number in the appropriate space.

CHECKLIST

| | YES | NO | NA | NCM # |
|--|-----------|----|-----|-------|
| 1. Were custody seals on shipping container(s) intact? Check "NA" if hand delivered. If "Yes," check one: <input type="checkbox"/> CUSTODY SEAL SAVED <input checked="" type="checkbox"/> UNABLE TO SAVE CUSTODY SEAL | X | | | |
| 2. Were custody papers properly included with samples? | X | | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? | X | | | |
| 4. Did all bottles arrive in good condition (unbroken)? | X | | | |
| 5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? | X | | | |
| 6. Were correct bottles used for the tests indicated? | X | | | |
| 7. Were proper sample preservation techniques indicated? | X | | | |
| 8. Were samples received within holding times? If "No," NCM required. | X | | | |
| 9. Were all VOA bottles checked for the presence of air bubbles? If air bubbles were found, indicate in comment section. | <u>CA</u> | | (X) | |
| 10. Were samples in direct contact with wet ice? If "No," check one: <input type="checkbox"/> NO ICE <input type="checkbox"/> BLUE ICE | X | | | |
| 11. Were the samples received with a temperature blank? RECORD TEMPERATURE ABOVE If "No," check one: <input type="checkbox"/> Unable to determine temp <input type="checkbox"/> Taken from ice/water near samples | X | | | |
| 12. Was the cooler temperature less than 6°C? | X | | | |
| 13. Were sample pHs checked and recorded by Sample control? <i>NOTE: VOA samples are checked by laboratory analysts.</i> | | | X | |
| 14. Were samples accepted into the laboratory? | X | | | |

Comments:

Project Manager initials/date reviewed: mg 7/27/00


ITT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 16-072500-QST

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Project Number: 783149

Samples Shipment Date: 25 JUL 2000

Bill To: Duane Nielsen

Project Name: Fort McClellan, SAD TERC

Lab Destination: QUANTERRA - TAMPA

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: Oliver Allen

Lab Contact: Michelle Lersch

Report To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

 Turnaround Time: **48 hour
Turn**

Project Contact: Randy McBride

Carrier/Waybill No.: Fed Ex/790866030598

| | |
|--|--|
| Special Instructions: NONE | |
| Possible Hazard Identification: Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> | Sample Disposal: Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive (mos.) |
| 1. Relinquished By <i>D. K. Cole</i> (Signature/Affiliation) | Date: 25 July 00 Time: 1610 |
| 2. Relinquished By (Signature/Affiliation) | Date: Time: |
| 3. Relinquished By (Signature/Affiliation) | Date: Time: |
| 1. Received By <i>Carol McHulty</i> (Signature/Affiliation) | Date: 7/26/00 Time: 1000 |
| 2. Received By (Signature/Affiliation) | Date: Time: |
| 3. Received By (Signature/Affiliation) | Date: Time: |
| Comments: NONE 48 hour Turn | |

| Sample No | Sample Name | Sample Date | Sample Time | Container | Ctr Qty | Preservative | Requested Testing Program | File CID | Condition On Receipt |
|-----------|-----------------------------|-------------|-------------|------------|---------|-------------------------|---------------------------|----------|----------------------|
| LD0008 | UST-16A1-CS06-CS-LD0008-REG | 25 JUL 2000 | 13:30 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0008 | UST-16A1-CS06-CS-LD0008-REG | 25 JUL 2000 | 13:30 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |
| LD0009 | UST-16A1-CS07-CS-LD0009-REG | 25 JUL 2000 | 13:45 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0009 | UST-16A1-CS07-CS-LD0009-REG | 25 JUL 2000 | 13:45 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |
| LD0015 | UST-16A2-CS06-CS-LD0015-REG | 25 JUL 2000 | 08:45 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0015 | UST-16A2-CS06-CS-LD0015-REG | 25 JUL 2000 | 08:45 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |
| LD0016 | UST-16A2-CS07-CS-LD0016-REG | 25 JUL 2000 | 09:00 | 5 g EnCore | 3 | None except cool to 4 C | BTEX by 8021B | N | |
| LD0016 | UST-16A2-CS07-CS-LD0016-REG | 25 JUL 2000 | 09:00 | 8 oz CWM | 1 | None except cool to 4 C | PAH's by 8310 | N | |



IT CORPORATION

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 16-072500-QST

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| Sample No | Sample Name | Sample Date | Sample Time | Container | Preservative | Requested Testing Program | File CID | Condition On Receipt |
|-----------|-----------------------------|-------------|-------------|------------|---------------------------|----------------------------------|----------|----------------------|
| LD8001 | UST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 8 oz CWM | 1 None except cool to 4 C | Deisel Range Organics by 8015B | N | |
| LD8001 | UST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 5 g EnCore | 3 None except cool to 4 C | Gasoline Range Organics by 8015B | N | |
| LD8001 | UST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 8 oz CWM | 1 None except cool to 4 C | Paint Filter | N | |
| LD8002 | UST-16A2-SP01-SP-LD8002-REG | 25 JUL 2000 | 09:15 | 5 g EnCore | 3 None except cool to 4 C | Gasoline Range Organics by 8015B | N | |
| LD8002 | UST-16A2-SP01-SP-LD8002-REG | 25 JUL 2000 | 09:15 | 8 oz CWM | 1 None except cool to 4 C | Lead by 6010B, Paint Filter | N | |
| LD8002 | UST-16A2-SP01-SP-LD8002-REG | 25 JUL 2000 | 09:15 | 8 oz CWM | 1 None except cool to 4 C | Deisel Range Organics by 8015B | N | |

STL KNOXVILLE

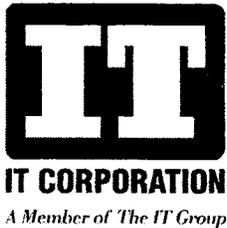
SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKno PROJECT: Ftmc Lot No.: H0G260167

TO BE COMPETED BY PROJECT MANAGER:

- | | | | |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Client Documents (Request for Analysis/Chain of Custody): | YES | NO | NA |
| a. Was QuanTIMS lot number documented on all paperwork? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Was RFA/COC signed upon receipt, including date/time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Is preservative check (pH) noted on RFA/COC? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Is cooler temperature & custody seal condition noted on COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Log-in (Lot Folder) Review: | YES | NO | NA |
| a. Do client IDs on Client Summaries match RFA/COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Were tests/parameters assigned correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Were correct analytical and report due dates assigned? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Has the correct fax due date been assigned to the lot? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Is the correct report format noted in the lot summary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Is percent moisture logged for samples requiring this analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Are client assigned QC samples properly defined? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Contract/Subcontract Review: | YES | NO | NA |
| a. Is there a contract number or PO for this work? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. If the purchase order number is given, is it noted in Lot header? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. If samples were subcontracted, was copy of COC in folder? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. SDG Review: | YES | NO | NA |
| a. If SDG is required, is SDG form in Lot folder? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Is SDG number noted in Lot header & sample comments? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. If SDG is complete, has the due date been revised & marked closed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Checklist Review: | YES | NO | NA |
| a. Has Sample Receipt Checklist been filled-out? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. Was there a CUR? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. Were all issues resolved? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

LOT FOLDER REVIEWED BY: [Signature] DATE: 7/26/00



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 16-072500-QSK

Page 1 of 1

Project Number: 783149

Samples Shipment Date: 26 JUL 2000

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Project Name: Fort McClellan, SAD TERC

Lab Destination: Quanterra Environmental Services - Knoxville

Sample Coordinator: Oliver Allen

Lab Contact: John Reynolds

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Turnaround Time: *48 hours*

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/Courier

| | |
|--|--|
| Special Instructions: None | |
| Possible Hazard Identification: Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> | Sample Disposal: Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive (mos.) |
| 1. Relinquished By <i>D. K. Lee</i> Date: <i>7-26-00</i> (Signature/Affiliation) Time: <i>1330</i> | 1. Received By <i>Robert E. Myers</i> Date: <i>7-26-00</i> (Signature/Affiliation) Time: <i>13:30</i> |
| 2. Relinquished By <i>Robert E. Myers</i> Date: <i>7-26-00</i> (Signature/Affiliation) Time: <i>18:20</i> | 2. Received By <i>D. Nielsen</i> Date: <i>7-26-00</i> (Signature/Affiliation) Time: <i>18:20</i> |
| 3. Relinquished By _____ Date: _____ (Signature/Affiliation) Time: _____ | 3. Received By _____ Date: _____ (Signature/Affiliation) Time: _____ |
| Comments: None <i>48 hour Turn</i> | |

*Rec'd Temp 2°C
Custody seals intact
D.F. 7-26-00*

| Sample No | Sample Name | Sample Date | Sample Time | Container | Ctr Qty | Preservative | Requested Testing Program | File CID | Condition On Receipt |
|-----------|-----------------------------|-------------|-------------|-----------|---------|-------------------------|---------------------------|----------|----------------------|
| LD0008 | UST-16A1-CS06-CS-LD0008-REG | 25 JUL 2000 | 13:30 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD0009 | UST-16A1-CS07-CS-LD0009-REG | 25 JUL 2000 | 13:45 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD0015 | UST-16A2-CS06-CS-LD0015-REG | 25 JUL 2000 | 08:45 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD0016 | UST-16A2-CS07-CS-LD0016-REG | 25 JUL 2000 | 09:00 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD8001 | UST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |

| | |
|--|-----------|
| UST16A02 Analytical Report | 1 |
| Sample Receipt Documentation..... | 16 |
| Invoice | 20 |
| Total # of Pages | 20 |



STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 783149

FIMC
SDG #: UST16A02

Duane Nielsen

IT Corp - Ft. McClellan
312 Directors Drive
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "John Reynolds". The signature is fluid and cursive, with a long horizontal stroke at the end.

John Reynolds
Project Manager

August 1, 2000

SAMPLE SUMMARY

UST16A02 : HOG270104

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT</u> | <u>SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-------------|----------------|---------------|------------------|-------------|-------------|
| DGVVM | 001 | LD0008 | | 07/25/00 | 13:30 |
| DGVVT | 002 | LD0009 | | 07/25/00 | 13:45 |
| DGVVV | 003 | LD0015 | | 07/25/00 | 13:45 |
| DGVW0 | 004 | LD0016 | | 07/25/00 | 08:45 |
| DGVW1 | 005 | LD8001 | | 07/25/00 | 14:00 |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SDG SAMPLE SUMMARY REPORT

UST16A02

IT CORP - FT. MCCLELLAN 00394097

| <u>LOT-SAMPLE #</u> | <u>QC</u> | <u>RECEIPT DATE</u> | <u>CLIENT SAMPLE ID</u> |
|---------------------|-----------|---------------------|-------------------------|
| HOG270104-001 | | 07/26/00 | LD0008 |
| HOG270104-001 | D | 07/26/00 | LD0008 |
| HOG270104-001 | S | 07/26/00 | LD0008 |
| HOG270104-002 | | 07/26/00 | LD0009 |
| HOG270104-003 | | 07/26/00 | LD0015 |
| HOG270104-004 | | 07/26/00 | LD0016 |
| HOG270104-005 | | 07/26/00 | LD8001 |

ANALYTICAL METHODS SUMMARY

UST16A02

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> |
|---|------------------------------|
| Percent Moisture | MCAWW 160.3 MOD |
| Trace Inductively Coupled Plasma (ICP) Metals | SW846 6010B |

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

UST16A02

The results reported herein are applicable to the samples submitted for analysis only.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no sample receipt issues noted.

Quality Control

All holding times and QC criteria were met.

This report shall not be reproduced except in full, without the written approval of the laboratory.

STL Knoxville (formerly Quanterra Incorporated), Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0008

TOTAL Metals

Lot-Sample #...: HOG270104-001
Date Sampled...: 07/25/00
% Moisture.....: 8.6

Date Received...: 07/26/00

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION- | WORK |
|-----------------|---------|--------------------|-------|--|-------------------------|----------------|----------|
| | | LIMIT | UNITS | | | ANALYSIS DATE | ORDER # |
| Prep Batch #... | 0210131 | | | | | | |
| Lead | 15.9 | 0.33 | mg/kg | | SW846 6010B | 07/28/00 | DGVVM102 |
| | | Dilution Factor: 1 | | | Analysis Time...: 15:48 | MDL.....: 0.13 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0009

TOTAL Metals

Lot-Sample #...: H0G270104-002

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|------------------|---------|--------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: | 0210131 | | | | | |
| Lead | 18.8 | 0.36 | mg/kg | SW846 6010B | 07/28/00 | DGVVT102 |
| | | Dilution Factor: 1 | | Analysis Time...: 16:16 | MDL.....: 0.14 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0015

TOTAL Metals

Lot-Sample #...: HOG270104-003

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION- | WORK |
|-----------------|---------|--------------------|-------|--|-------------------------|----------------|----------|
| | | LIMIT | UNITS | | | ANALYSIS DATE | ORDER # |
| Prep Batch #... | 0210131 | | | | | | |
| Lead | 18.2 | 0.36 | mg/kg | | SW846 6010B | 07/28/00 | DGVVV102 |
| | | Dilution Factor: 1 | | | Analysis Time...: 16:21 | MDL.....: 0.14 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD0016

TOTAL Metals

Lot-Sample #...: HOG270104-004

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 19

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|-----------------|---------|--------------------|-------|-------------------------|----------------|----------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Prep Batch #... | 0210131 | | | | | |
| Lead | 60.0 | 0.37 | mg/kg | SW846 6010B | 07/28/00 | DGVW0102 |
| | | Dilution Factor: 1 | | Analysis Time...: 16:25 | MDL.....: 0.15 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LD8001

TOTAL Metals

Lot-Sample #...: HOG270104-005

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

% Moisture.....: 10

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION- | WORK |
|-----------------|---------|--------------------|-------|-------------------------|----------------|---------------|---------|
| | | LIMIT | UNITS | | | ANALYSIS DATE | ORDER # |
| Prep Batch #... | 0210131 | | | | | | |
| Lead | 13.7 | 0.34 | mg/kg | SW846 6010B | 07/28/00 | DGVW1102 | |
| | | Dilution Factor: 1 | | Analysis Time...: 16:30 | MDL.....: 0.13 | | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: UST16A02

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>WORK</u> <u>ORDER #</u> |
|--------------------------------|---------------|----------------------------------|--------------|---------------|---|-------------------------------|
| MB Lot-Sample #: H0G280000-131 | | Prep Batch #...: 0210131 | | | | |
| Lead | ND | 0.30 | mg/kg | SW846 6010B | 07/28/00 | DH0E9101 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 15:39 | | | | |

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: UST16A02

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|-----------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|-----------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: H0G270104-001 Prep Batch #....: 0210131

| | | | | | | | | | |
|------|------|------|------|-------|----|-----|-------------|----------|----------|
| Lead | 15.9 | 54.7 | 64.5 | mg/kg | 89 | | SW846 6010B | 07/28/00 | DGVVM103 |
| | 15.9 | 54.7 | 65.7 | mg/kg | 91 | 1.8 | SW846 6010B | 07/28/00 | DGVVM104 |

Dilution Factor: 1

Analysis Time..: 15:53

NOTE(S) :

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

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: UST16A02

Matrix.....: SOLID

Date Sampled...: 07/25/00

Date Received...: 07/26/00

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|

MS Lot-Sample #: HOG270104-001 Prep Batch #...: 0210131

| | | | | | | | |
|------|----|------------|--|--|-------------|----------|----------|
| Lead | 89 | (75 - 125) | | | SW846 6010B | 07/28/00 | DGVVM103 |
|------|----|------------|--|--|-------------|----------|----------|

| | | | | | | | |
|--|----|------------|-----|--------|-------------|----------|----------|
| | 91 | (75 - 125) | 1.8 | (0-20) | SW846 6010B | 07/28/00 | DGVVM104 |
|--|----|------------|-----|--------|-------------|----------|----------|

Dilution Factor: 1

Analysis Time...: 15:53

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: UST16A02

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>SPIKE</u> <u>AMOUNT</u> | <u>MEASURED</u> <u>AMOUNT</u> | <u>UNITS</u> | <u>PERCNT</u> <u>RECVRY</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>WORK</u> <u>ORDER #</u> |
|------------------|-------------------------------|----------------------------------|--------------|--------------------------------|---------------|---|-------------------------------|
|------------------|-------------------------------|----------------------------------|--------------|--------------------------------|---------------|---|-------------------------------|

LCS Lot-Sample#: HOG280000-131 Prep Batch #...: 0210131

| | | | | | | | |
|------|------|------|-------|----|-------------|----------|----------|
| Lead | 50.0 | 48.3 | mg/kg | 97 | SW846 6010B | 07/28/00 | DH0E9102 |
|------|------|------|-------|----|-------------|----------|----------|

Dilution Factor: 1

Analysis Time...: 15:44

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: UST16A02

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-----------------------------|----------------------------|---------------|---------------------------------------|---------------------|
|------------------|-----------------------------|----------------------------|---------------|---------------------------------------|---------------------|

LCS Lot-Sample#: H0G280000-131 Prep Batch #...: 0210131

Lead 97 (80 - 120) SW846 6010B 07/28/00 DH0E9102

Dilution Factor: 1

Analysis Time...: 15:44

NOTE (S) :

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

Sample Delivery Group
Assignment Form

SDG# UST16A02

| * | DATE REC'D | LOT# | CLIENT ID | VOA | PAH | PEST | EXP | MET | PCB | PH | DRO | GRO | PAINT |
|----|------------|-----------|-----------|-------|------|-------|------|-------|------|------|------|------|--------|
| | | | | 8021B | 8310 | 8081A | 8330 | 6010B | 8082 | 9045 | 8015 | 8015 | FILTER |
| 1 | 7/26/00 | H0G270104 | LD0008 | | | | | X | | | | | |
| 2 | | | LD0009 | | | | | X | | | | | |
| 3 | | | LD0015 | | | | | X | | | | | |
| 4 | | | LD0016 | | | | | X | | | | | |
| 5 | | | LD8001 | | | | | X | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |

NC = NORTH CANTON
T = STL TAMPA
D = STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: SOIL
ANALYTICAL DUE: 7-31-00
REPORT DUE: 8-7-00
CLOSED? YES



IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

HUGL 1001

Reference Document No: 16-072500-QSK

Page 1 of 1

Project Number: 783149

Samples Shipment Date: 26 JUL 2000

Bill To: Duane Nielsen

Project Name: Fort McClellan, SAD TERC

Lab Destination: Quanterra Environmental Services - Knoxville

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: Oliver Allen

Lab Contact: John Reynolds

Report To: Duane Nielsen

Turnaround Time: *48 hours*

Project Contact: Randy McBride

312 Directors Drive

Knoxville

TN 37923

Carrier/Waybill No.: Quality Express/Courier

Special Instructions: None

Possible Hazard Identification:

Non-hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal:

Return to Client Disposal by Lab Archive (mos.)

1. Relinquished By
(Signature/Affiliation)

D. K. Lee

Date: *7-26-00*

Time: *1330*

1. Received By
(Signature/Affiliation)

Robert E. Meyer

Date: *7-26-00*

Time: *13:30*

2. Relinquished By
(Signature/Affiliation)

Robert E. Meyer

Date: *7-26-00*

Time: *18:20*

2. Received By
(Signature/Affiliation)

D. W. ...

Date: *7-26-00*

Time: *18:20*

3. Relinquished By
(Signature/Affiliation)

Date:

Time:

3. Received By
(Signature/Affiliation)

Date:

Time:

Comments: None *48 hour Turn*

*Rec'd Temp 2°C
Custody seals intact
D.F. 7-26-00*

| Sample No | Sample Name | Sample Date | Sample Time | Container | Ctr Qty | Preservative | Requested Testing Program | File CID | Condition On Receipt |
|-----------|-----------------------------|-------------|-------------|-----------|---------|-------------------------|---------------------------|----------|----------------------|
| LD0008 | UST-16A1-CS06-CS-LD0008-REG | 25 JUL 2000 | 13:30 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD0009 | UST-16A1-CS07-CS-LD0009-REG | 25 JUL 2000 | 13:45 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD0015 | UST-16A2-CS06-CS-LD0015-REG | 25 JUL 2000 | 08:45 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD0016 | UST-16A2-CS07-CS-LD0016-REG | 25 JUL 2000 | 09:00 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |
| LD8001 | UST-16A1-SP01-SP-LD8001-REG | 25 JUL 2000 | 14:00 | 8 oz CWM | 1 | None except cool to 4 C | Lead by 6010B | N | |

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of _____

CLIENT: IT Corp PROJECT: FT McClellan Lot No.: H0G270104

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

- | | | | |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. Sample Receipt: | YES | NO | NA |
| a. Do sample container labels match COC? (IDs, Dates, Times) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Is the cooler temperature within acceptance limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Were samples received with correct preservative (excluding Encore)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Were custody seals present/intact on cooler and/or containers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Were all of the samples listed on the COC received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Were all of the sample containers received intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Were containers received for VOAs received without headspace? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h. Were samples received in the appropriate containers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| i. Did you check for residual chlorine, if necessary? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| j. Were samples received within 1/2 of the (QAMP) holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| k. Were samples screened for radioactivity? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| l. Were client's sample documents (RFA/COC) received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| m. Has the RFA/COC been relinquished? (Signed, Dated, Timed) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| n. Are test/parameters listed for each sample? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| o. Is the matrix of the samples noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| p. Is the date/time of sample collection noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| q. Is the client and project name/No. identified? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SAMPLE RECEIVING ASSOCIATE: David D. Farrow DATE: 7.27.00

TO BE COMPLETED BY PROJECT MANAGER :

- | | | | |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. Project manager "Sample Greet": | YES | NO | NA |
| a. Quote number to be logged-in under <u>25474</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Informed Login associates of special instructions? <u>JDGE JST14003 FAX DUE 7/31</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. If custody seals were missing/not intact, was client notified? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PROJECT MANAGER : [Signature] DATE: 7/27/00

| Client Sample ID | Analysis Requested | Condition (see legend) | Comments/Action |
|------------------|--------------------|------------------------|-----------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

- Client informed on _____ by _____. Person contacted: _____
- Noted actions in comments section above.
- No action necessary; process as is.

Project Manager: _____ Date: _____

8/31
9/7

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKnox PROJECT: FTMC Lot No.: H09270104

TO BE COMPETED BY PROJECT MANAGER:

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Client Documents (Request for Analysis/Chain of Custody): | YES | NO | NA |
| a. Was QuanTIMS lot number documented on all paperwork? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Was RFA/COC signed upon receipt, including date/time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Is preservative check (pH) noted on RFA/COC? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Is cooler temperature & custody seal condition noted on COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Log-in (Lot Folder) Review: | YES | NO | NA |
| a. Do client IDs on Client Summaries match RFA/COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Were tests/parameters assigned correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Were correct analytical and report due dates assigned? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Has the correct fax due date been assigned to the lot? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Is the correct report format noted in the lot summary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Is percent moisture logged for samples requiring this analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Are client assigned QC samples properly defined? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Contract/Subcontract Review: | YES | NO | NA |
| a. Is there a contract number or PO for this work? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. If the purchase order number is given, is it noted in Lot header? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. If samples were subcontracted, was copy of COC in folder? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. SDG Review: | YES | NO | NA |
| a. If SDG is required, is SDG form in Lot folder? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Is SDG number noted in Lot header & sample comments? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. If SDG is complete, has the due date been revised & marked closed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Checklist Review: | YES | NO | NA |
| a. Has Sample Receipt Checklist been filled-out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Was there a CUR? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Were all issues resolved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

LOT FOLDER REVIEWED BY:  DATE: 7/28/10